



Workforce Estimating Conference

March 4, 2004

Workforce Estimating Conference Summary

March 4, 2004

Room 1707 Turlington Building

Tallahassee, Florida

Targeted Occupations List/ Uses, Concepts, and Impact – Uses of the Targeted Occupations List include targeting occupations for Individual Training Accounts (ITA) under the Workforce Investment Act, performance based funding for vocational centers and community colleges, and targeting jobs for special initiatives in education, training, and economic development.

The Workforce Estimating Conference's primary focus was to identify occupations suitable for Individual Training Accounts (ITA) and recognize occupations, which could be considered high wage/high demand occupations. Jobs that are to be targeted should have sufficient numbers of permanent openings and employment growth to assure ample job opportunities to justify training, meaning they meet an established openings and growth criteria.

Jobs targeted for an ITA should have an average wage high enough to assure career growth after initial employment and low enough to include good 'ports of entry'. They should also have an entry-level wage high enough to assure initial employment is above the poverty wage.

Jobs to be recognized as high wage/high demand occupations should have an average wage and entry-level wage high enough to justify a designation of a "high wage job" and faster-than-average growth with significant annual openings.

The criteria that was recommended and approved for the 2004-2005 Statewide Targeted Occupations Lists were as follows:

Demand -

- At least 50 annual openings with faster-than-average growth (1.96% based on 2011 projections), or
- At least 100 annual openings and evidence of positive growth

High Wage -

- Average wage at least \$16.85 (average wage of all occupations requiring an associates degree or post-secondary training), and
- Entry wage at least \$10.74 (Lower Living Standard Income Level for a family of three for the south metro area)

All ITA -

- Average wage at least \$10.74 (Lower Living Standard Income Level for a family of three for the south metro area), and
- Entry wage at least \$9.00

The items that are to be researched/reviewed prior to the next Workforce Estimating Conference meeting are: wage indexing and the impact of Scripps.

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4	Florida Employment Projections 2011
5	Screening Criteria
6	2004-2005 Proposed State Demand Occupations Lists
7	2004-2005 Proposed University State Demand Occupations Lists
8	Proposed Workforce Estimating Conference Process

AGENDA

- | | |
|---|--------------------------------|
| A. Welcome, Opening Remarks, and Statutory Authority | Don Langston |
| B. Florida Labor Market and Economic Update | Rebecca Rust |
| C. Florida Employment Projections 2011 and Wages
Including Program Enhancements | Bill Dobson |
| D. Screening Criteria | Jay Pfeiffer |
| E. 2004-2005 Proposed State Demand Occupations Lists | Bill Dobson |
| F. Action Items | Don Langston |
| * Wage Criteria 2004-2005 | |
| * Indexing | |
| * Consensus on the Process / Timeline | |
| G. 2004-2005 Proposed University State
Demand Occupations Lists and
University Targeted Disciplines | Bill Dobson
Richard Stevens |
| H. Next Steps | Don Langston |
| I. Closing Remarks | Don Langston |

Principals of the Workforce Estimating Conference

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216.136 **Consensus estimating conferences; duties and principals.--**

(9) WORKFORCE ESTIMATING CONFERENCE.--

(a) *Duties.--*

1. The Workforce Estimating Conference shall develop such official information on the workforce development system planning process as it relates to the personnel needs of current, new, and emerging industries as the conference determines is needed by the state planning and budgeting system. Such information, using quantitative and qualitative research methods, must include at least: short-term and long-term forecasts of employment demand for jobs by occupation and industry; entry and average wage forecasts among those occupations; and estimates of the supply of trained and qualified individuals available or potentially available for employment in those occupations, with special focus upon those occupations and industries which require high skills and have high entry wages and experienced wage levels. In the development of workforce estimates, the conference shall use, to the fullest extent possible, local occupational and workforce forecasts and estimates.

2. The Workforce Estimating Conference shall review data concerning the local and regional demands for short-term and long-term employment in High-Skills/High-Wage Program jobs, as well as other jobs, which data is generated through surveys conducted as part of the state's Internet-based job matching and labor market information system authorized under s. [445.011](#). The conference shall consider such data in developing its forecasts for statewide employment demand, including reviewing the local and regional data for common trends and conditions among localities or regions which may warrant inclusion of a particular occupation on the statewide occupational forecasting list developed by the conference. Based upon its review of such survey data, the conference shall also make recommendations semiannually to Workforce Florida, Inc., on additions or deletions to lists of locally targeted occupations approved by Workforce Florida, Inc.

3. During each legislative session, and at other times if necessary, the Workforce Estimating Conference shall meet as the Workforce Impact Conference for the purpose of determining the effects of legislation related to the state's workforce and economic development efforts introduced prior to and during such legislative session. In addition to the designated principals of the impact conference, nonprincipal participants of the impact conference shall include a representative of the Florida Chamber of Commerce and other interested parties. The impact conference shall use both quantitative and qualitative research methods to determine the impact of introduced legislation related to workforce and economic development issues.

4. Notwithstanding subparagraph 3., the Workforce Estimating Conference, for the purposes described in subparagraph 1., shall meet no less than 2 times in a calendar year. The first meeting shall be held in February and the second meeting shall be held in August. Other meetings may be scheduled as needed.

(b) *Principals.--*The Commissioner of Education, the Executive Office of the Governor, the director of the Office of Tourism, Trade, and Economic Development, the director of the Agency for Workforce Innovation, the Chancellor of the State University System, the Executive Director of the State Board of Community Colleges, the chair of the State Board of Nonpublic Career Education, the chair of Workforce

Florida, Inc., the coordinator of the Office of Economic and Demographic Research, or their designees, and professional staff from the Senate and the House of Representatives who have forecasting and substantive expertise, are the principals of the Workforce Estimating Conference. In addition to the designated principals of the conference, nonprincipal participants of the conference shall include a representative of the Florida Chamber of Commerce and other interested parties. The principal representing the Executive Office of the Governor shall preside over the sessions of the conference.

History.--s. 4, ch. 85-26; s. 1, ch. 87-234; s. 3, ch. 88-384; s. 2, ch. 89-531; s. 25, ch. 90-306; s. 18, ch. 91-57; s. 11, ch. 91-109; s. 20, ch. 91-282; s. 1, ch. 93-84; s. 15, ch. 93-230; s. 63, ch. 94-209; s. 1512, ch. 95-147; s. 61, ch. 95-228; s. 20, ch. 96-320; s. 4, ch. 96-404; s. 10, ch. 98-136; s. 131, ch. 98-403; s. 45, ch. 98-421; s. 87, ch. 99-2; s. 23, ch. 99-8; s. 1, ch. 99-206; s. 3, ch. 99-357; s. 4, ch. 2000-135; ss. 43, 78, ch. 2000-139; s. 58, ch. 2000-165; s. 2, ch. 2000-200; s. 1, ch. 2000-253; s. 16, ch. 2000-371; s. 5, ch. 2001-56; s. 22, ch. 2001-170; s. 3, ch. 2001-185; s. 6, ch. 2002-390.

216.134 **Consensus estimating conferences; general provisions.--**

(1) Each consensus estimating conference shall develop such official information within its area of responsibility as the conference determines, by consensus, is needed for purposes of the state planning and budgeting system. Unless otherwise provided by law or decided by unanimous agreement of the principals of the conference, all official information developed by the conference shall be based on the assumption that current law and current administrative practices will remain in effect throughout the period for which the official information is to be used. The official information developed by each consensus estimating conference shall include forecasts for a period of at least 10 years, unless the principals of the conference unanimously agree otherwise.

(2) Whenever an estimating conference is convened, an official estimate does not exist until a new consensus is reached.

(3) The official information developed by the Economic Estimating Conference and the official information developed by the Demographic Estimating Conference shall be used by all other consensus estimating conferences in developing their official information.

(4) The membership of each consensus estimating conference consists of principals and participants.

(a) A person designated by law as a principal may preside over conference sessions, convene conference sessions, request information, specify topics to be included on the conference agenda, agree or withhold agreement on whether information is to be official information of the conference, release official information of the conference, interpret official information of the conference, and monitor errors in official information of the conference.

(b) A participant is any person who is invited to participate in the consensus estimating conference by a principal. A participant shall, at the request of any principal before or during any session of the conference, develop alternative forecasts, collect and supply data, perform analyses, or provide other information needed by the conference. The conference shall consider information provided by participants in developing its official information.

(5) All sessions and meetings of a consensus estimating conference shall be open to the public as provided in chapter 286.

History.--s. 2, ch. 85-26; s. 15, ch. 2000-371.



Florida Labor Market and Economic Update

Workforce Estimating Conference

**Florida Agency for Workforce Innovation
Labor Market Statistics**

March 4, 2004

Labor Force Conditions

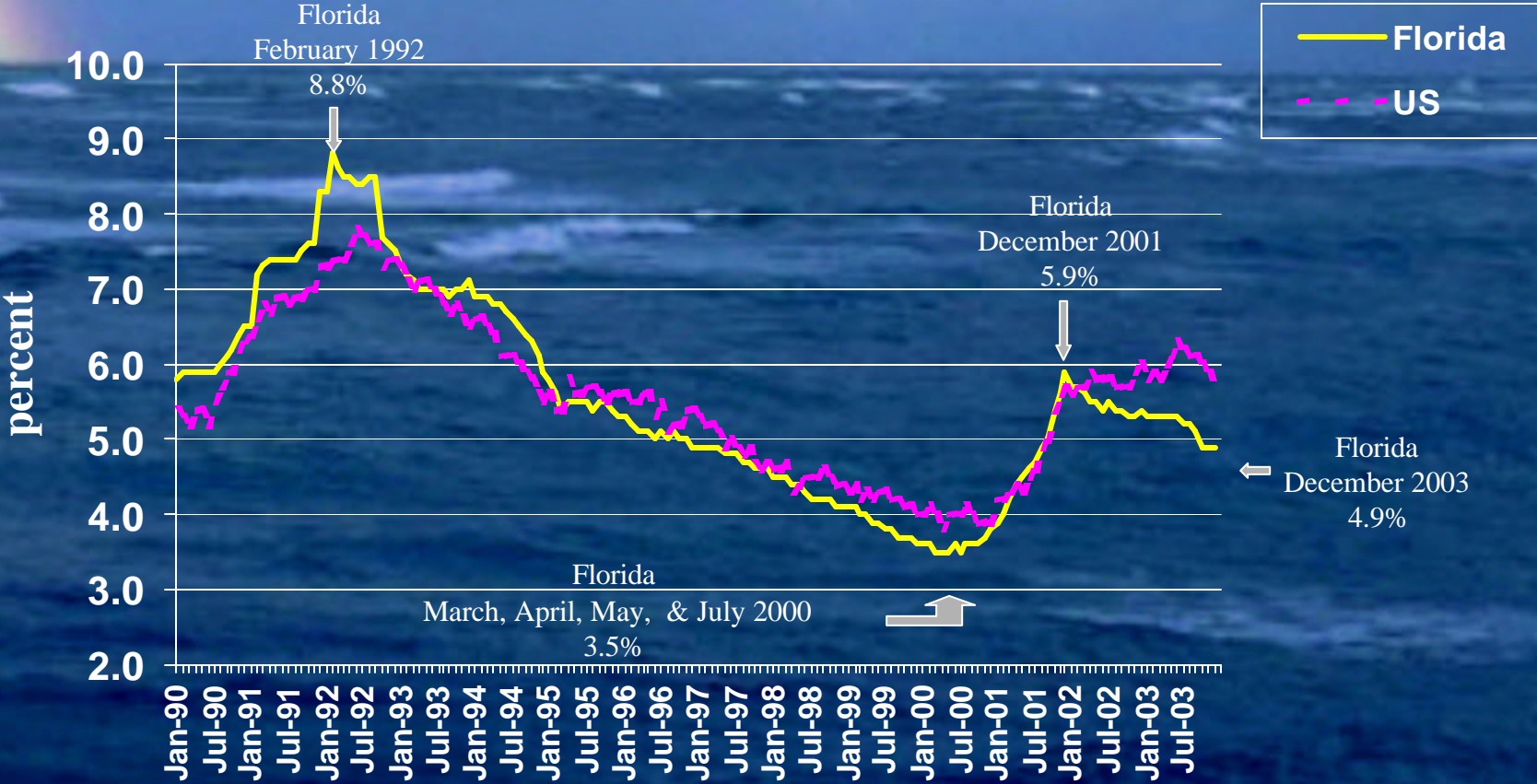
Seasonally Adjusted

December 2003

					Year Ago
	Labor Force	Employment	Unemployment	Unemployment Rate	Unemployment Rate
Florida	8,206,000	7,808,000	398,000	4.9	5.4
United States	146,878,000	138,479,000	8,398,000	5.7	6.0

Source: Florida Agency for Workforce Innovation, Labor Market Statistics in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

Unemployment Rates Seasonally Adjusted



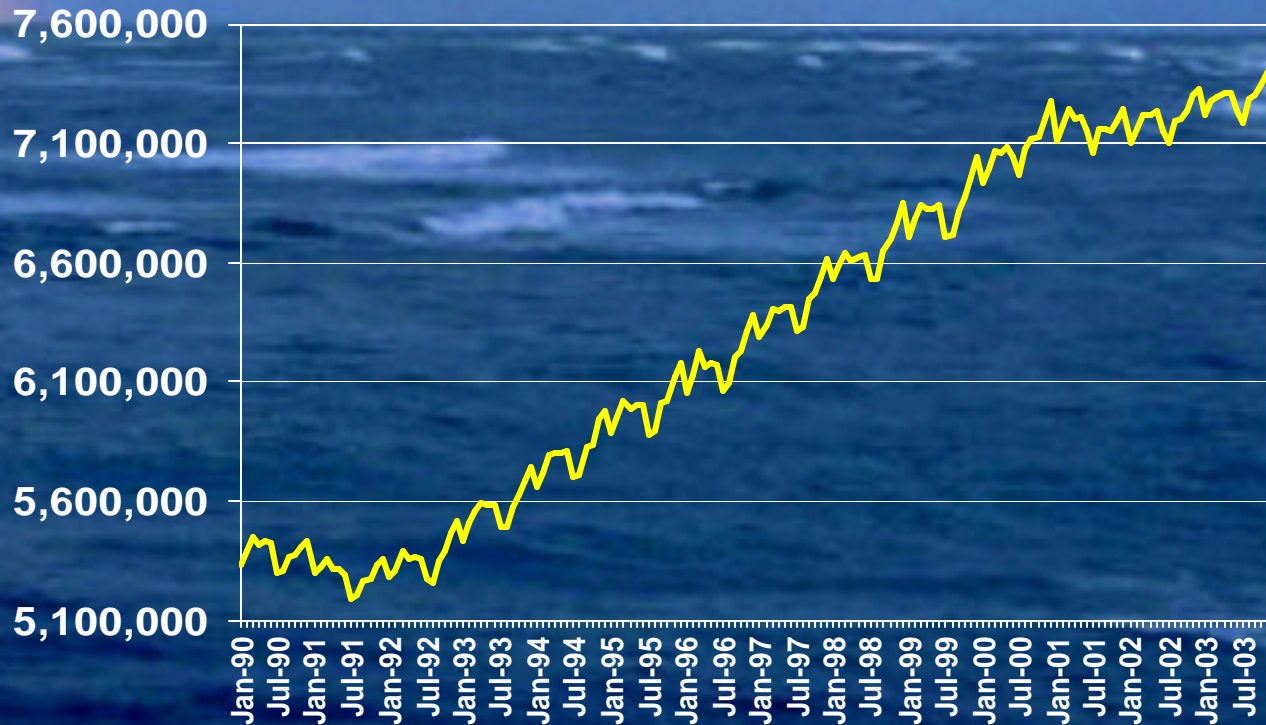
Source: Florida Agency for Workforce Innovation, Labor Market Statistics in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

Nonagricultural Employment Not Seasonally Adjusted

	December 2003	November 2003	December 2002	Over-the-Year Change	Over-the-Year Percent Change
Florida	7,439,200	7,401,100	7,325,800	113,400	1.5
United States	130,878,000	131,071,000	130,933,000	-55,000	0.0

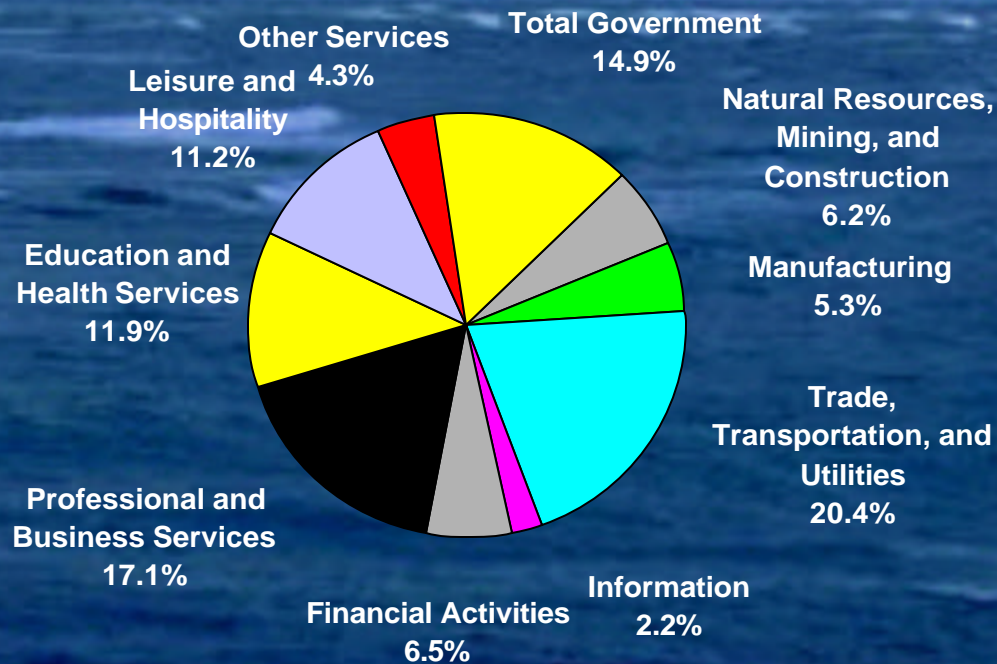
Source: Florida Agency for Workforce Innovation, Labor Market Statistics in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

Florida Total Nonagricultural Employment Not Seasonally Adjusted



Source: Florida Agency for Workforce Innovation, Labor Market Statistics, Current Employment Statistics, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

Florida Nonagricultural Employment by Industry December 2003

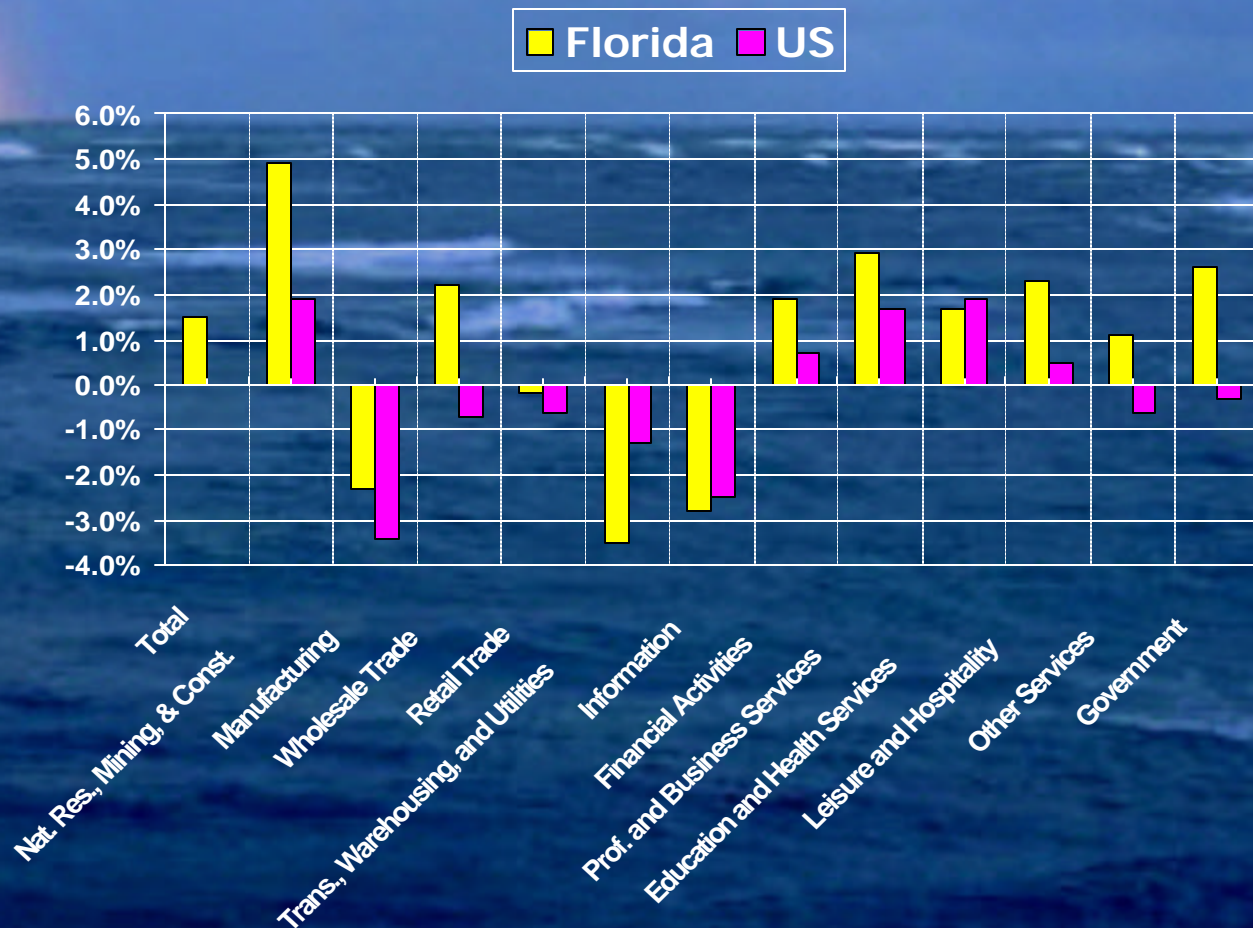


Source: Florida Agency for Workforce Innovation, Labor Market Statistics, Current Employment Statistics, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

Nonagricultural Employment by Industry

Not Seasonally Adjusted / Over-the-Year Percent Change

December 2003



Source: Florida Agency for Workforce Innovation, Labor Market Statistics, Current Employment Statistics, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

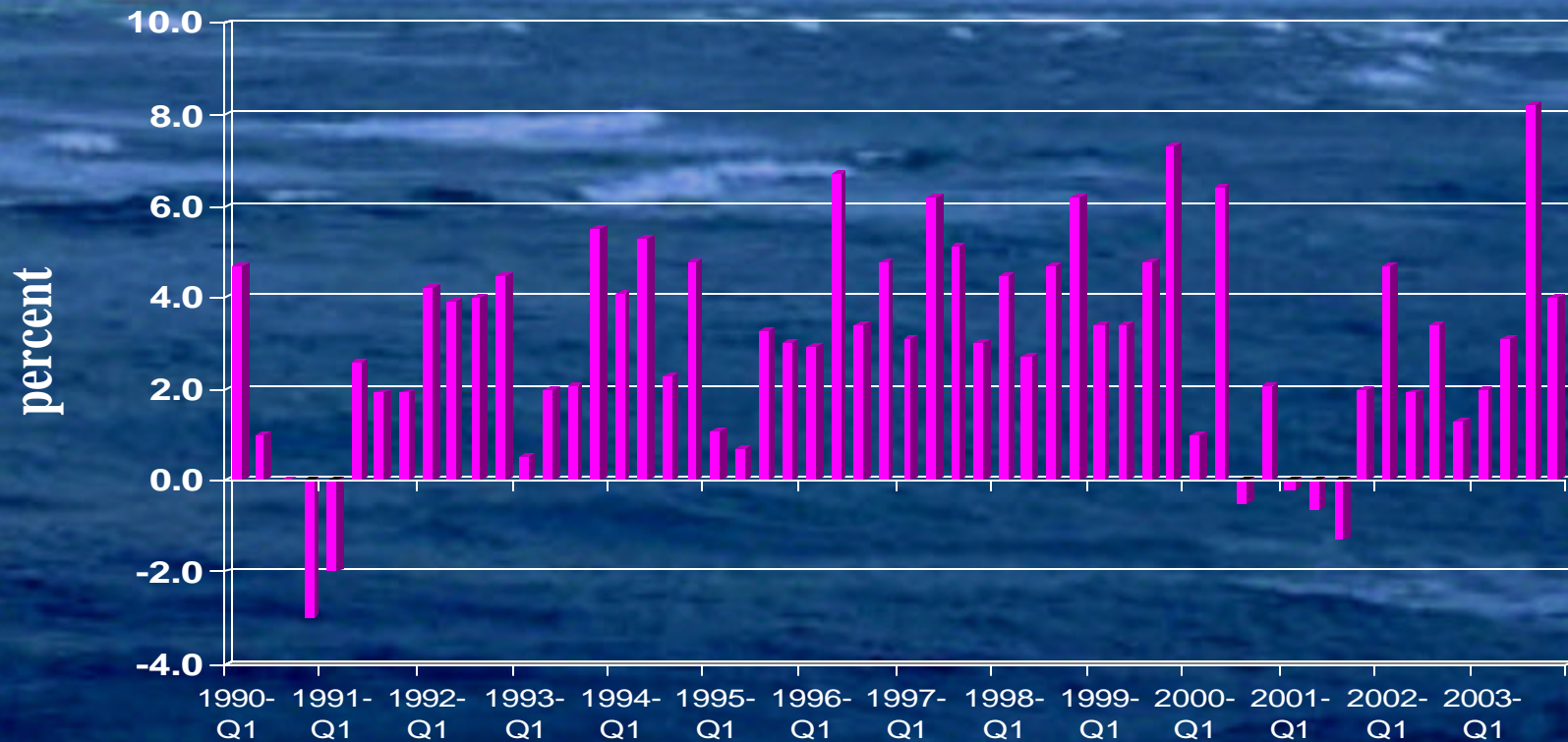
Professional and Business Services Gains More Jobs Than Any Other Industry in the State (Over the Year)

December 2003



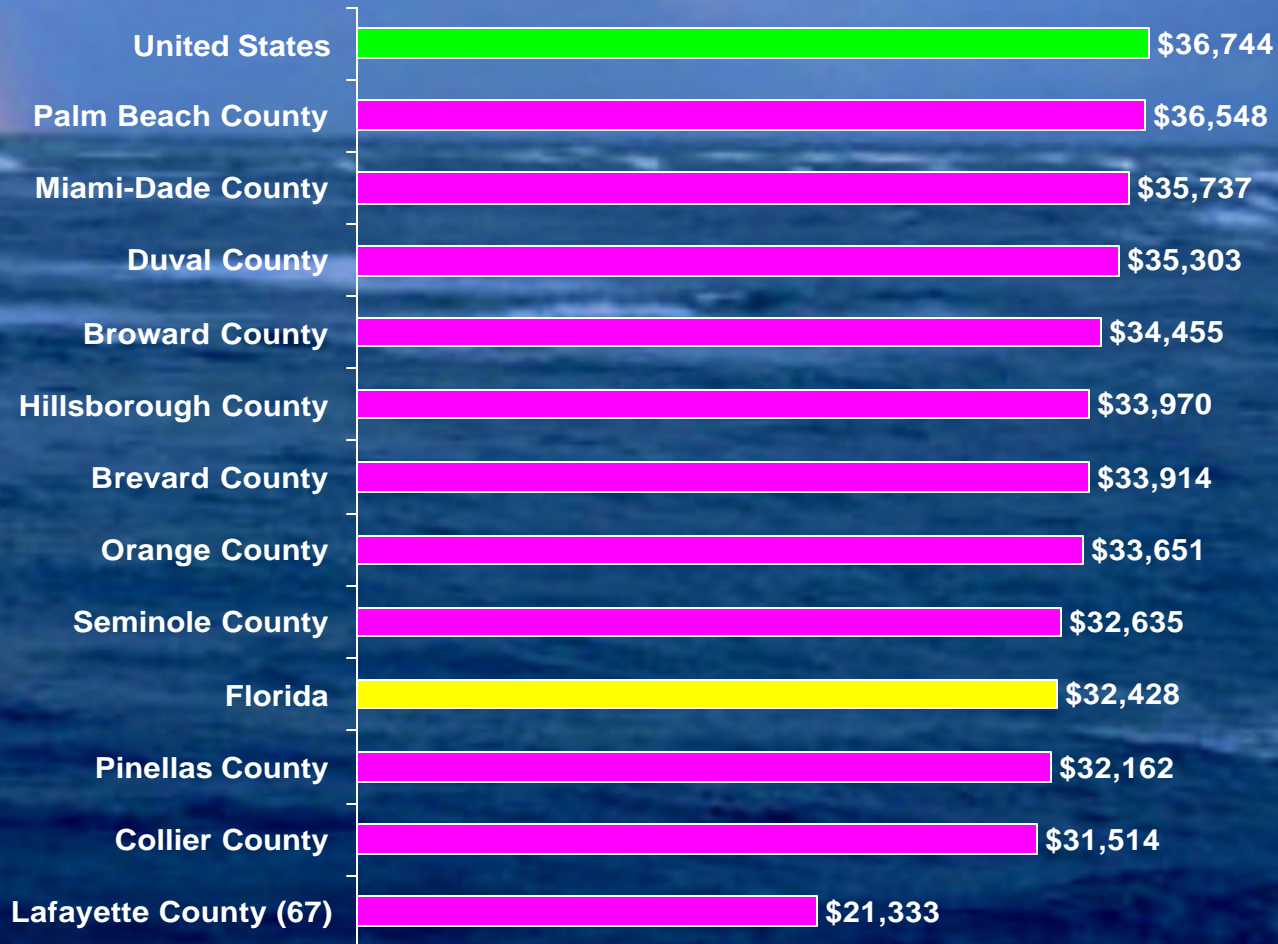
Source: Florida Agency for Workforce Innovation, Labor Market Statistics, Current Employment Statistics, in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.

Quarterly Change in U.S. Gross Domestic Product Seasonally Adjusted at Annual Rates



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Florida Average Annual Wages Range from \$36,548 to \$21,333



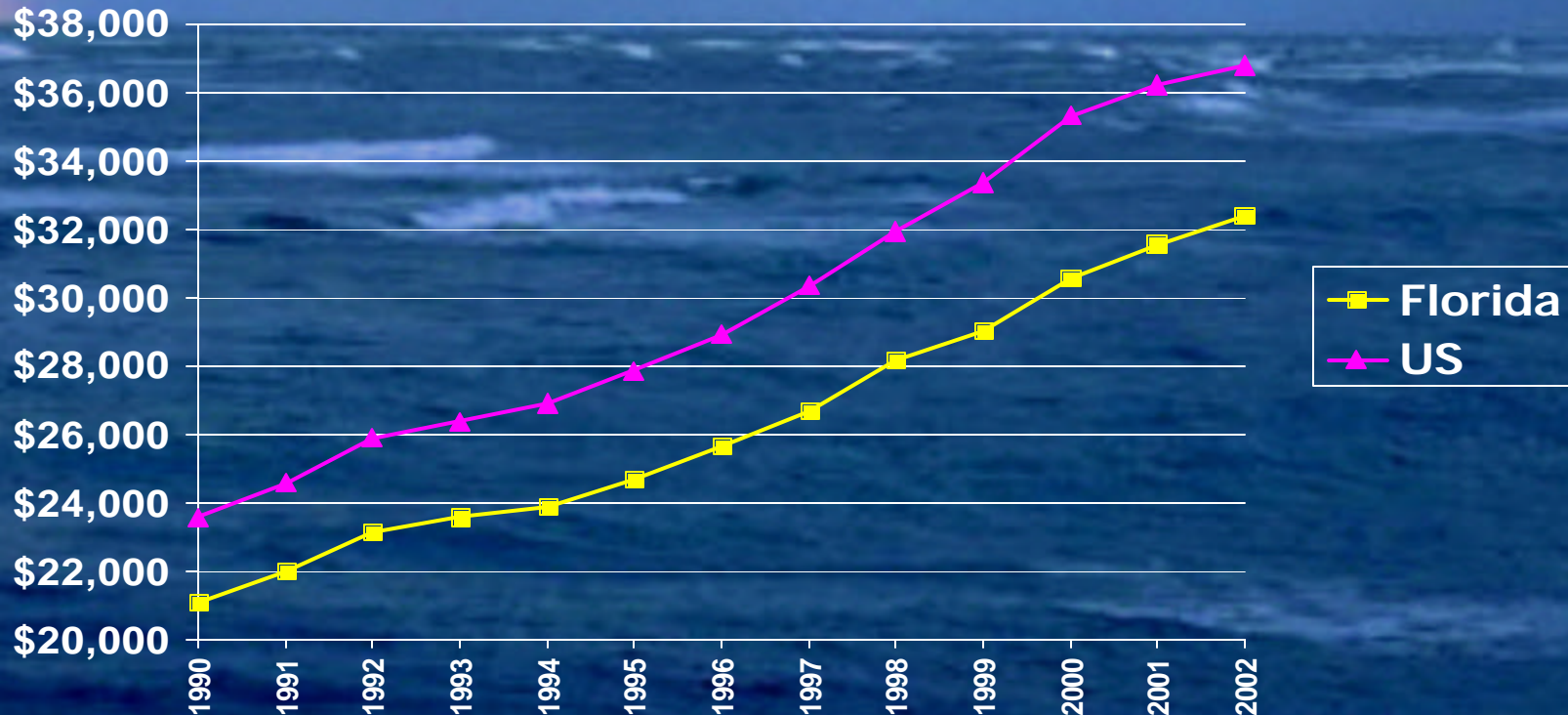
Source: Florida Agency for Workforce Innovation, Labor Market Statistics in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, 2002.

Florida Wages by Industry

Industry	Average Annual Wages
Total	\$32,428
Information	\$46,146
Financial Activities	\$44,515
Manufacturing	\$39,393
Government	\$36,129
Education and Health Services	\$34,189
Construction	\$34,096
Professional and Business Services	\$33,988
Trade, Transportation, and Utilities	\$30,403
Other Services	\$22,581
Natural Resources and Mining	\$19,924
Leisure and Hospitality	\$17,135

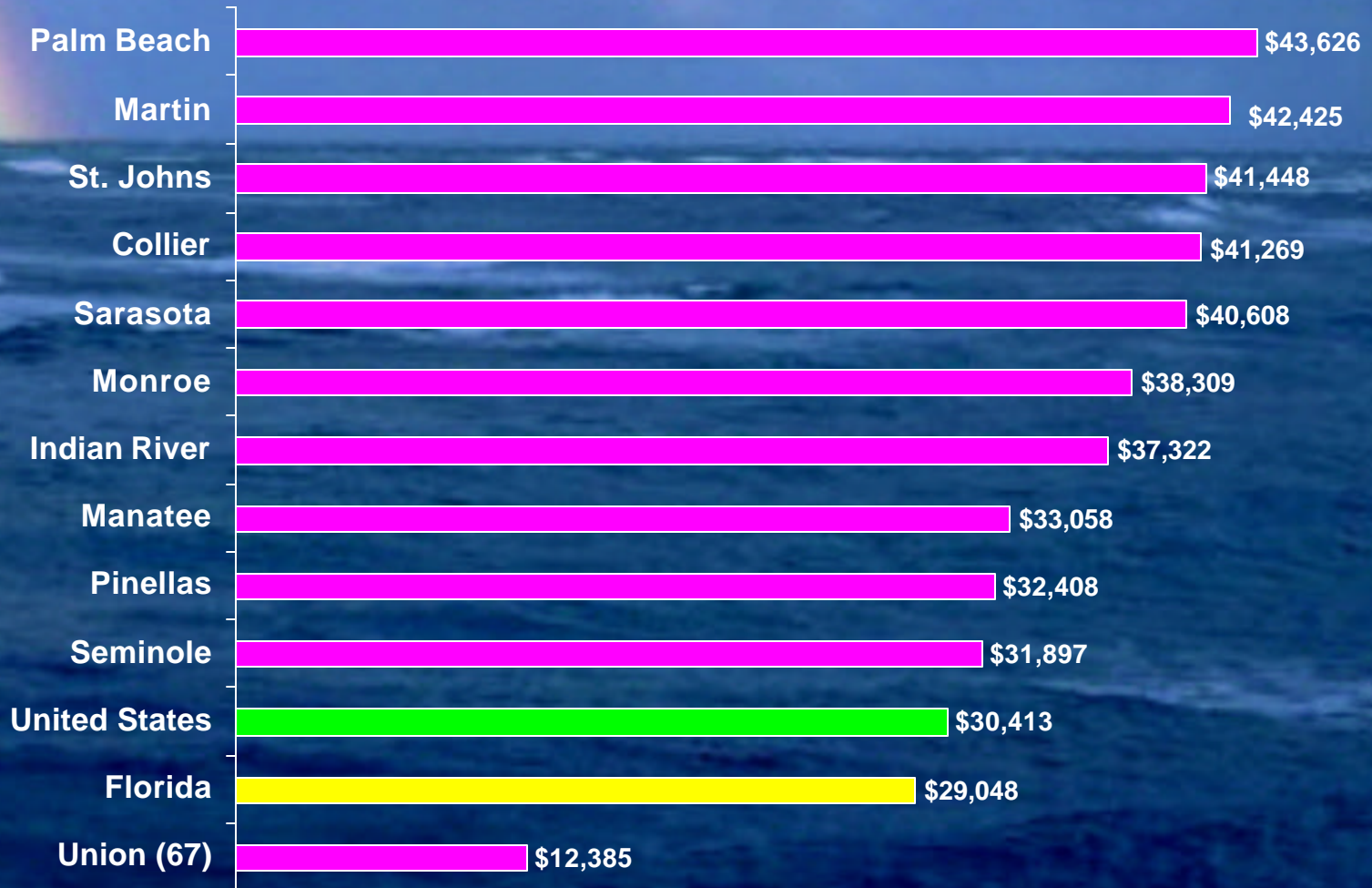
Source: Florida Agency for Workforce Innovation, Labor Market Statistics in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics, 2002.

Average Annual Wage



Source: Florida Agency for Workforce Innovation, Labor Market Statistics, and the U.S. Department of Labor, Bureau of Labor Statistics.

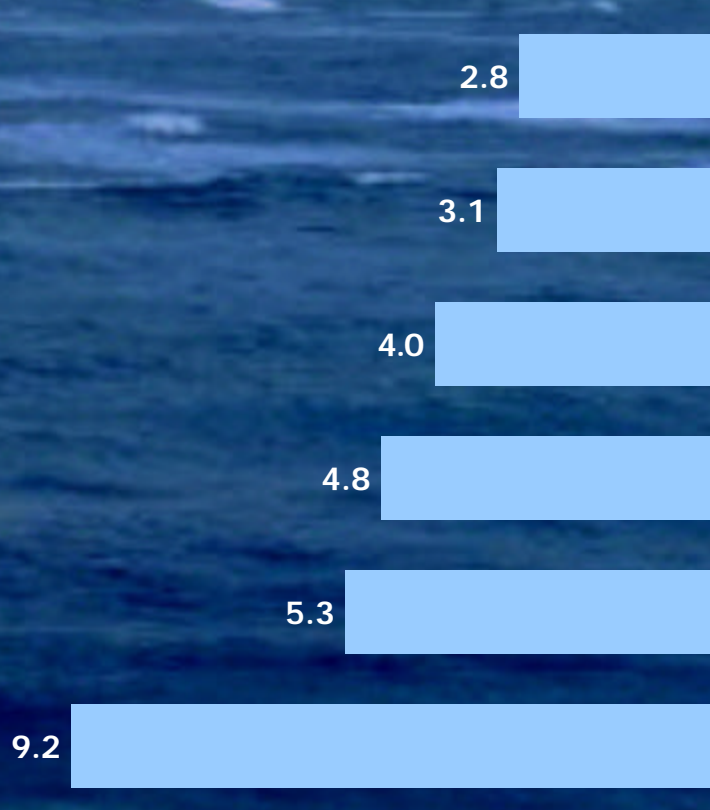
Florida Per Capita Income Ranges from \$43,626 to \$12,385



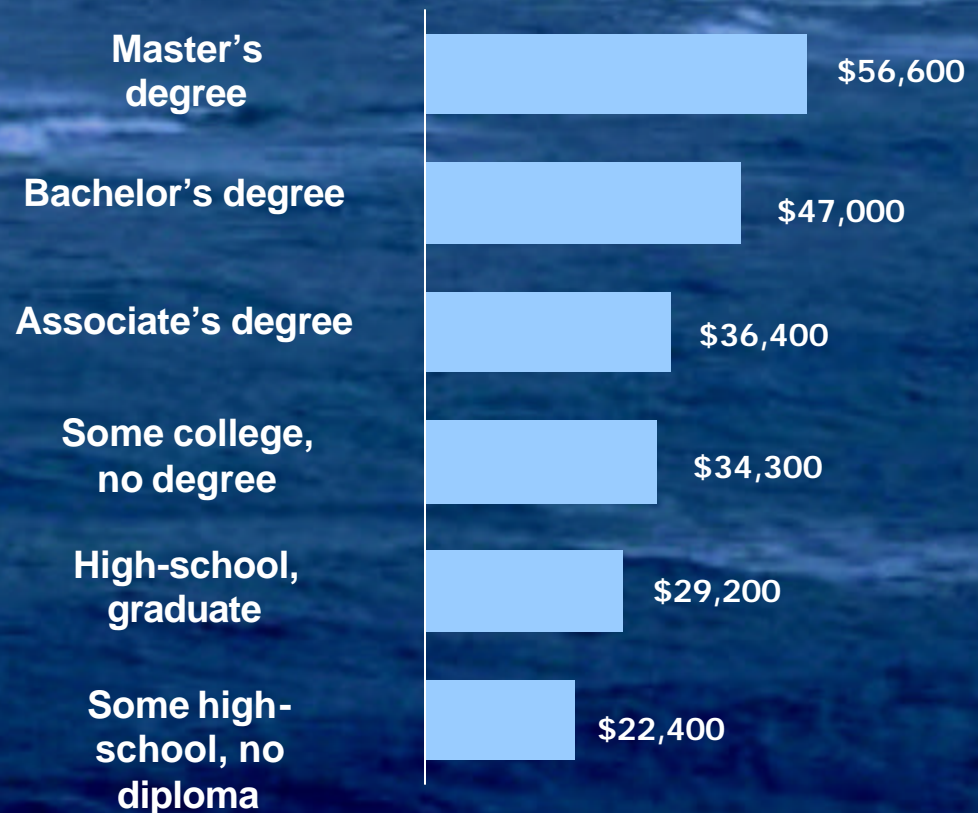
Source: U.S. Department of Commerce, Bureau of Economic Analysis, 2001.

Education and Training pays ...

Unemployment Rate
(Percent)



Median Earnings
(Dollars)



Sources: Unemployment rate, 2002 annual average: Bureau of Labor Statistics;
Earnings, March 2001: Bureau of the Census.



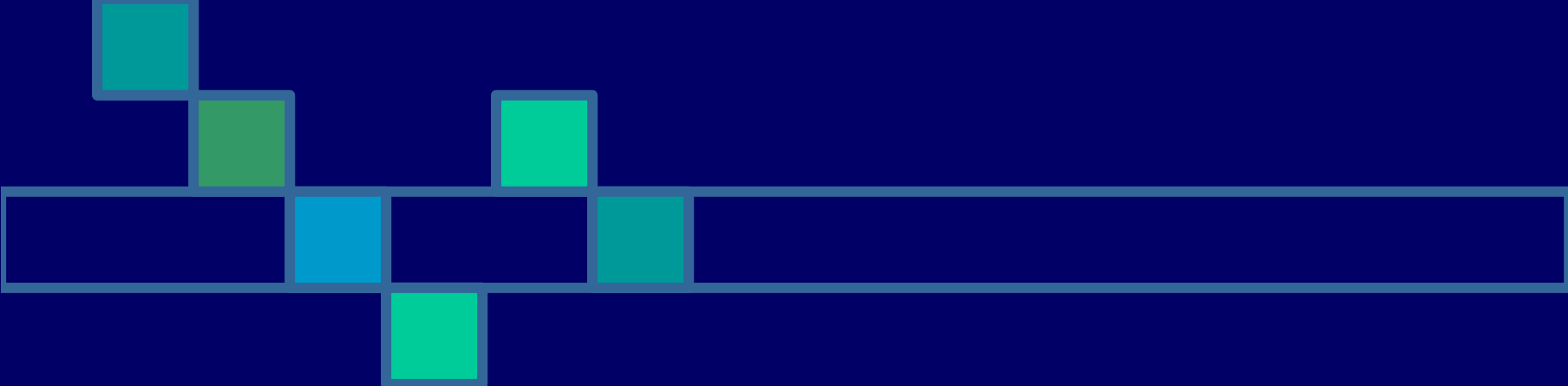
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Florida Employment Projections 2011 and Wages

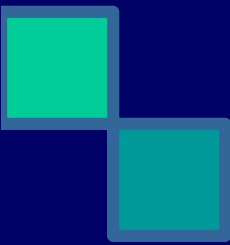



Florida Agency for Workforce Innovation
Labor Market Statistics

March 4, 2004

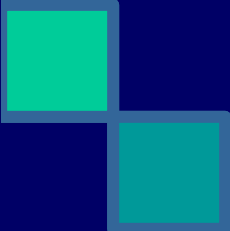



Employment Projections and Wages Program Updates/Changes

- 
- Industry employment projections are the final forecast based on the Standard Industrial Classification (SIC) System.
 - Occupational data are now collected twice a year to eliminate any seasonality in the data.
 - Residual occupations, known as the “All Other” occupations, are no longer listed on the survey form.
- 

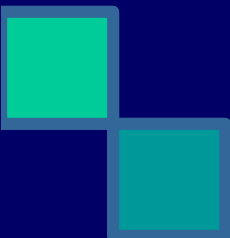



Trends Impacting the Florida Economy

- 
- Slower population growth
 - Aging of the baby boomers with changing demands (2011:47-65)
 - Echo boomers enter age cohorts with greater spending power: (2011: 19-38)
- 

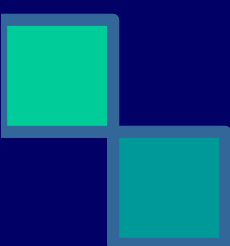



Trends Impacting the Florida Economy (cont.)

- 
- Everglades Restoration Project will affect employment in South Florida
 - Both lower-skilled and high-tech jobs moving to other countries
 - Recent passage of several constitutional amendments will impact employment growth
- 

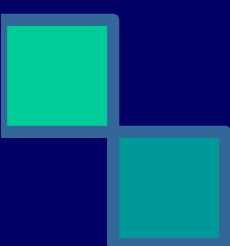



Industry Employment Projections

- 
- Employment in Florida is projected to gain 1,291,000 new jobs by 2011, increasing employment to 9,452,000 jobs.
 - Total employment for 2011 is just 0.9 percent higher than the level projected for 2010.
 - All major industry divisions, except mining are projected to gain employment.
- 

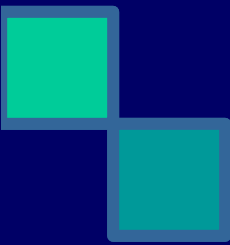



Industry Employment Projections (continued)

- 
- Annual employment growth over the next 8 years will average 1.96 percent.
 - All major industries divisions, except construction are projected to grow at the same or slower rate than previously forecasted.
 - One out of every two new jobs will continue to be in the services industry.
- 

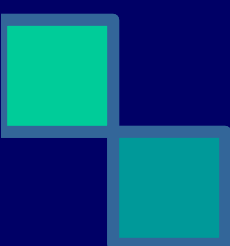



Industry Employment Projections (continued)

- 
- Within the services industry, business and health services will account for 61 percent of the new jobs.
 - Employment growth in manufacturing will be small (0.32%), with instruments and related products, fabricated metal products, and transportation equipment showing the strongest job gains.
- 

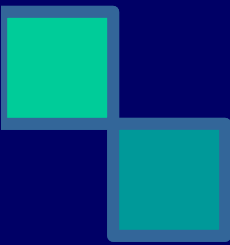



Industry Employment Projections (continued)

- 
- 
- Retail trade is projected to grow at the same rate as previously forecasted. A weaker forecast for eating and drinking places and food stores is offset by a stronger outlook for building materials, general merchandise stores, and miscellaneous retail stores.
 - Construction employment is projected to grow faster than previously forecasted as changes in demographics create an increased demand for residential housing.

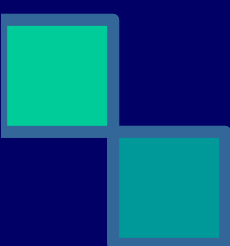



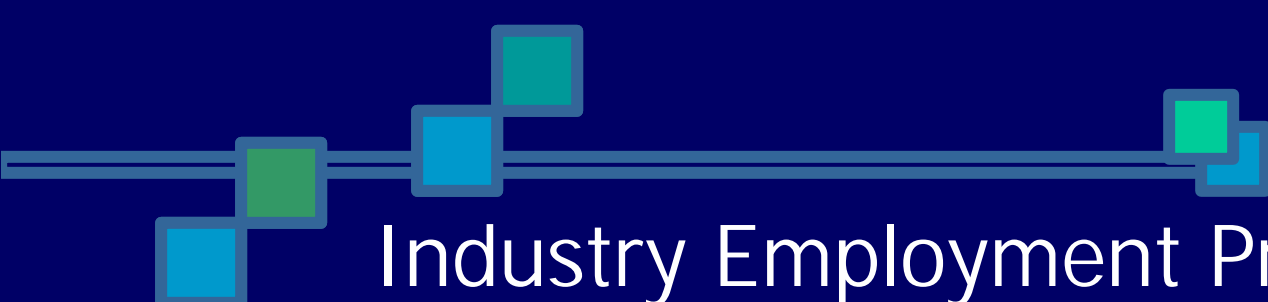
Industry Employment Projections (continued)

- 
- Government employment, is projected to grow slower than the average growth rate for all industries, with 85 percent of the new jobs to be at the local government level.
 - Self-employed workers will account for 3.2 percent of all the new jobs.
- 



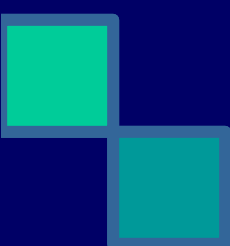

Industry Employment Projections What's Changed

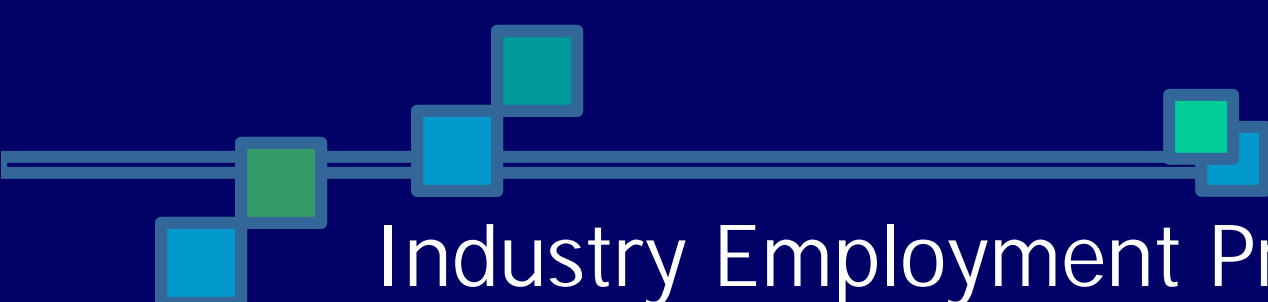
- 
- The outlook for the computer and data processing services industry was lowered by 13,000 jobs due to weak demand for services and jobs moving to other countries.
 - Overcapacity in grocery stores results in 12,400 fewer projected jobs.
- 



Industry Employment Projections

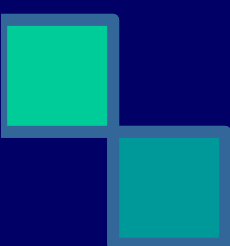

What's Changed (continued)

- 
- Impacts of 9/11 and a restructuring by the airline industry has lowered the projection for air transportation by 12,600 jobs.
 - The class size amendment and increased student enrollments gave reason to boost the forecast for elementary and secondary schools by 24,000 jobs.
- 

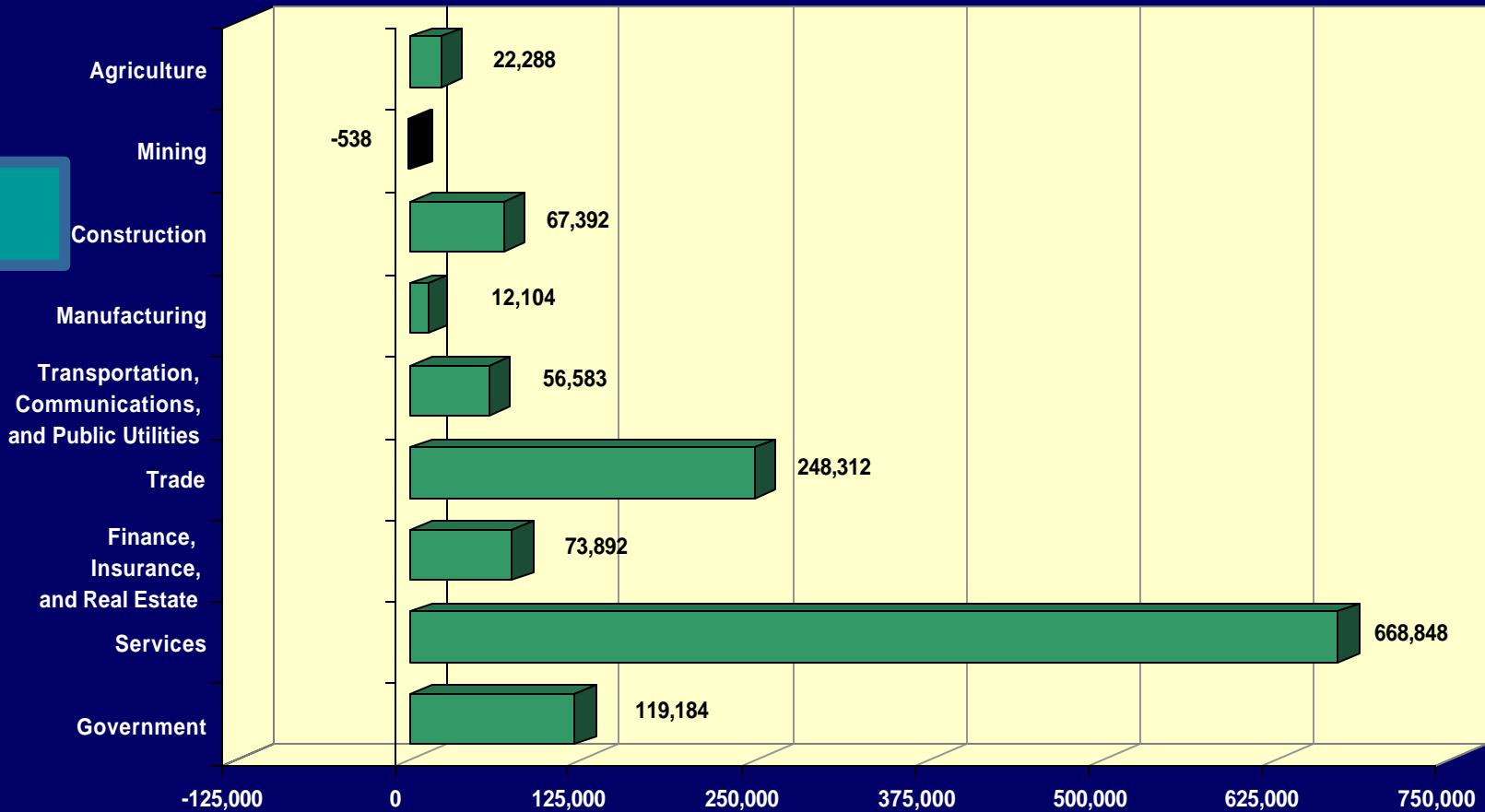


Industry Employment Projections

What's Changed (continued)

- 
- Recent strong growth in management consulting firms caused an additional 15,700 jobs to be forecasted for this industry.
 - Continued growth in construction prompted an increase the employment for lumber and other building material dealers by 7,400 jobs.
 - The mandatory availability of pre-K4 warranted an increase in the forecast for child care services by 4,100 jobs.
- 

Employment Growth By Industry Division Florida 2003-2011



Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Fastest-Growing Industries

RANK	INDUSTRY TITLE	ANNUAL CHANGE	
		NUMERICAL	PERCENT
1	Computer and Data Processing Services	4,273	5.27%
2	Home Health Care Services	2,050	5.01%
3	Functions Related to Banking	286	4.87%
4	Accident and Health Insurance Carriers	923	4.81%
5	Management & Public Relations	4,590	4.74%
6	Personnel Supply Services	21,991	4.65%
7	Motion Pictures	301	4.50%
8	Miscellaneous Food Stores	300	4.43%
9	Residential Care	2,046	4.37%
10	Used Merchandise Stores	1,055	4.33%

Source: Florida Agency for Workforce Innovation, Labor Market Statistics, Forecast to 2011.

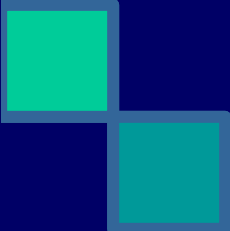

Industries Gaining the Most New Jobs

RANK	INDUSTRY TITLE	ANNUAL CHANGE	
		NUMERICAL	PERCENT
1	Personnel Supply Services	21,991	4.65%
2	Elementary and Secondary Schools (Pub & Private)	9,384	2.51%
3	Eating and Drinking Places	8,506	1.79%
4	Offices & Clinics Of Medical Doctors	5,921	4.25%
5	Hospitals (Public & Private)	6,562	2.12%
6	Management & Public Relations	4,590	4.74%
7	Computer and Data Processing Services	4,273	5.27%
8	Local Government, Except Education & Hospitals	3,915	1.41%
9	Miscellaneous Amusement and Recreation Services	3,720	2.81%
10	Grocery Stores	3,701	1.65%

Source: Florida Agency for Workforce Innovation, Labor Market Statistics, Forecast to 2011.

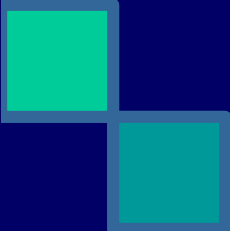



Occupational Employment Projections

- 
- Much of the occupational employment growth will occur in the trade and service industries, which will generate nearly 71 percent of the new jobs in Florida.
 - All 23 major occupational groups are projected to grow, but many will grow at a slower rate than previously forecasted.
- 



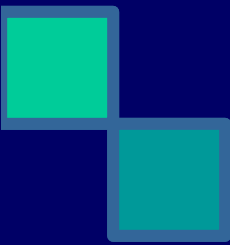

Occupational Employment Projections (cont.)


- 
- Computer and healthcare occupations will continue to grow the fastest, while clerical and sales occupations will gain the most new jobs.
 - 8 of the 10 fastest-growing occupations require postsecondary training below the baccalaureate degree.
 - In many occupations, more job openings will be due to replacement needs rather than economic growth.
- 



Occupational Employment Projections

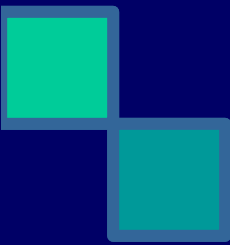

What's Changed

- 
- Stronger growth trends projected for construction, make the projections for electricians, carpenters, and construction laborers increase by a combined total of 8,300 jobs.
 - The outlook for elementary, middle and secondary school teachers has been increased by a combined total of an additional 25,000 jobs.
- 



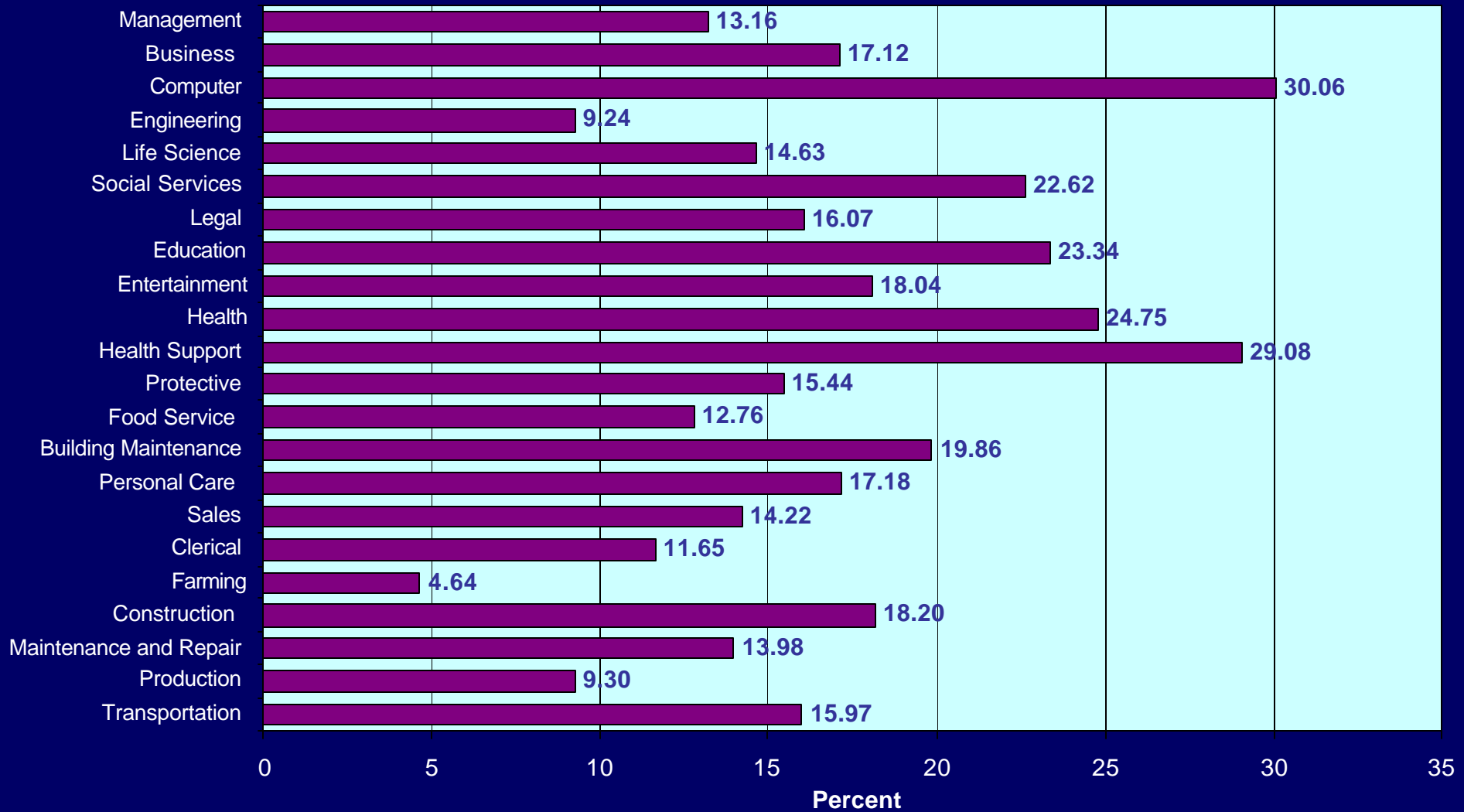
Occupational Employment Projections

What's Changed (continued)

- 
- The forecasts for computer support specialists, systems analysts, and database administrators, have been reduced by a combined total of 22,000 jobs.
 - The projection for telemarketers has been reduced by only 1,600 jobs due to limited data on the impact of the National Do Not Call List.
- 

Projected Employment Growth Rate by Major Occupational Group

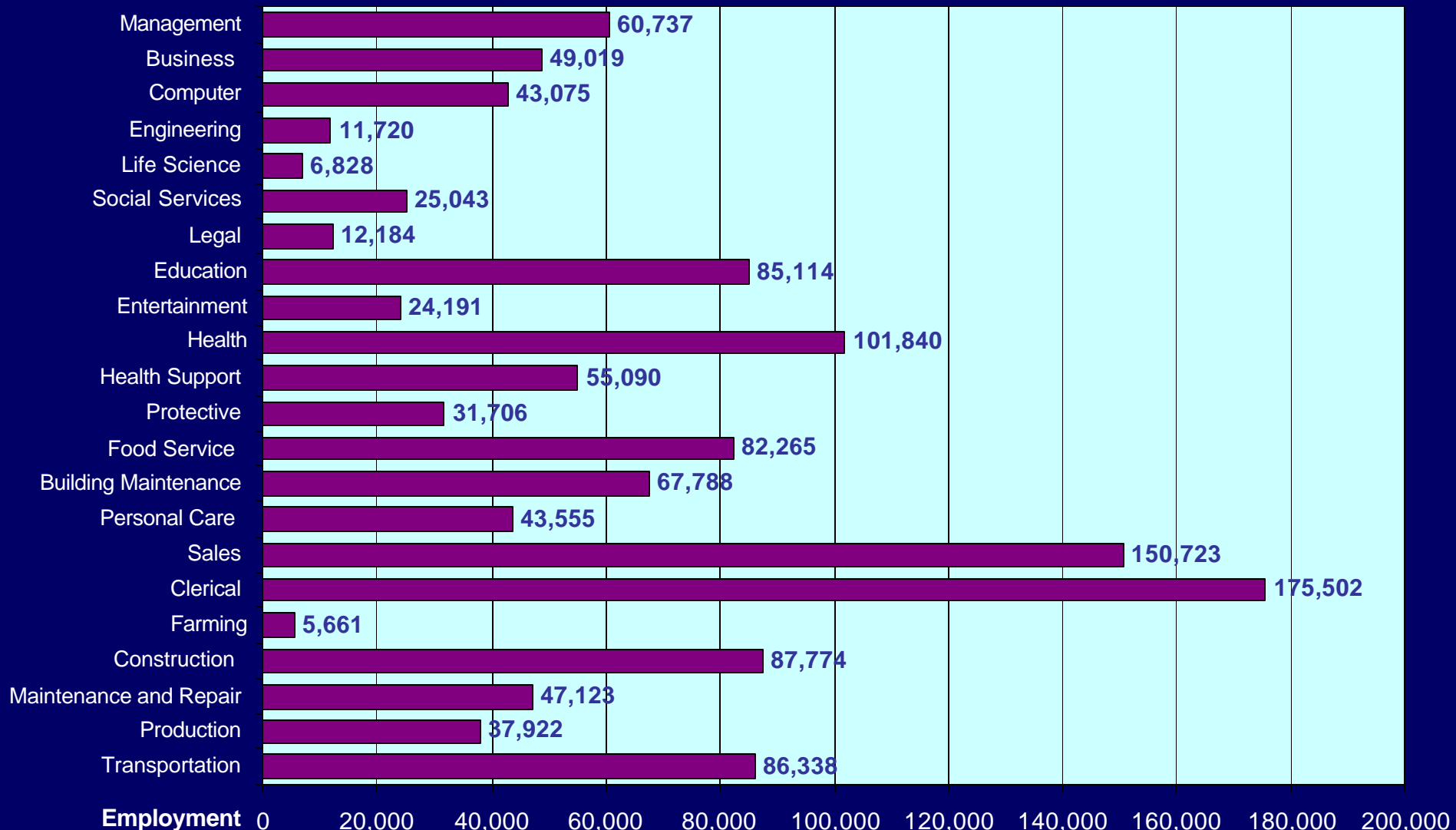
Florida 2003-2011



Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Projected Employment Growth By Major Occupational Group

Florida 2003-2011



Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Fastest Growing Occupations

		ANNUAL	AVERAGE
		PERCENT	HOURLY
RANK	OCCUPATIONAL TITLE	GROWTH	WAGE
1	Network and Computer Systems Administrators	5.58	\$26.87
2	Network Systems and Data Communications Analysts	5.51	28.55
3	Computer Software Engineers, Applications	5.50	34.77
4	Social and Human Service Assistants	5.10	10.92
5	Medical Assistants	5.06	11.36
6	Medical Records and Health Information Technicians	4.88	12.05
7	Computer Software Engineers, Systems Software	4.77	35.09
8	Home Health Aides	4.26	8.85
9	Computer Support Specialists	4.23	17.39
10	Personal and Home Care Aides	4.21	8.63

Source: Florida Agency for Workforce Innovation, Labor Market Statistics, 2003 Wage Data, Forecast to 2011.

Occupations Gaining the Most New Jobs

		ANNUAL	AVERAGE
		JOB	HOURLY
RANK	OCCUPATIONAL TITLE	GROWTH	WAGE
1	Retail Salespersons	5,376	\$10.72
2	Registered Nurses	5,198	23.12
3	Customer Service Representatives	4,900	12.62
4	Food Preparation & Serving Workers, Including Fast Food	4,414	6.94
5	Cashiers	4,137	7.87
6	Office Clerks, General	3,828	10.55
7	Landscaping and Groundskeeping Workers	2,987	9.49
8	Laborers, Freight, Stock, and Material Movers, Hand	2,564	9.06
9	Nursing Aides, Orderlies, and Attendants	2,434	9.55
10	Elementary School Teachers	2,328	25.36

Source: Florida Agency for Workforce Innovation, Labor Market Statistics, 2003 Wage Data, Forecast to 2011.

Fastest Growing Occupations that Require Postsecondary Training Below a 4-Year Degree

		ANNUAL	AVERAGE
		PERCENT	HOURLY
RANK	OCCUPATIONAL TITLE	GROWTH	WAGE
1	Network and Computer Systems Administrators	5.58	\$26.87
2	Network Systems and Data Communications Analysts	5.51	28.55
3	Computer Software Engineers, Applications	5.50	34.77
4	Social and Human Service Assistants	5.10	10.92
5	Medical Assistants	5.06	11.36
6	Medical Records and Health Information Technicians	4.88	12.05
7	Home Health Aides	4.26	8.85
8	Computer Support Specialists	4.23	17.39
9	Respiratory Therapists	4.21	19.34
10	Pharmacy Technicians	4.17	10.25

Source: Florida Agency for Workforce Innovation, Labor Market Statistics, 2003 Wage Data, Forecast to 2011.

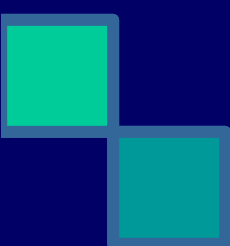

Occupations Gaining the Most New Jobs that Require Postsecondary Training Below a 4-Year Degree

		ANNUAL JOB GROWTH	AVERAGE HOURLY WAGE
RANK	OCCUPATIONAL TITLE		
1	Registered Nurses	5,198	\$23.12
2	Customer Service Representatives	4,900	12.62
3	Landscaping and Groundskeeping Workers	2,987	9.49
4	Nursing Aides, Orderlies, and Attendants	2,434	9.55
5	First-Line Supervisors of Retail Sales Workers	1,965	18.55
6	General and Operations Managers	1,831	39.34
7	Executive Secretaries and Administrative Assistants	1,673	16.10
8	Medical Assistants	1,586	11.36
9	Bookkeeping, Accounting, and Auditing Clerks	1,481	12.98
10	Truck Drivers, Heavy and Tractor-Trailer	1,446	15.32

Source: Florida Agency for Workforce Innovation, Labor Market Statistics, 2003 Wage Data, Forecast to 2011.

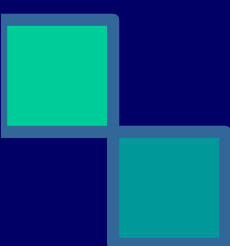



Occupational Wages

- 
- The overall weighted average wage in Florida is \$16.36 per hour. This is an increase of 4.1 percent from the overall average wage (\$15.71) used as the high wage criteria for the last Workforce Estimating Conference.
 - The 2003 overall weighted entry wage in Florida is \$10.57, up just 1.7 percent from the 2002 wage of \$10.39.
- 

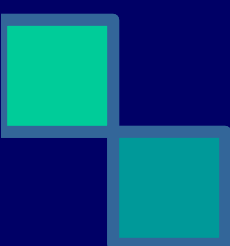



Occupational Wages (continued)

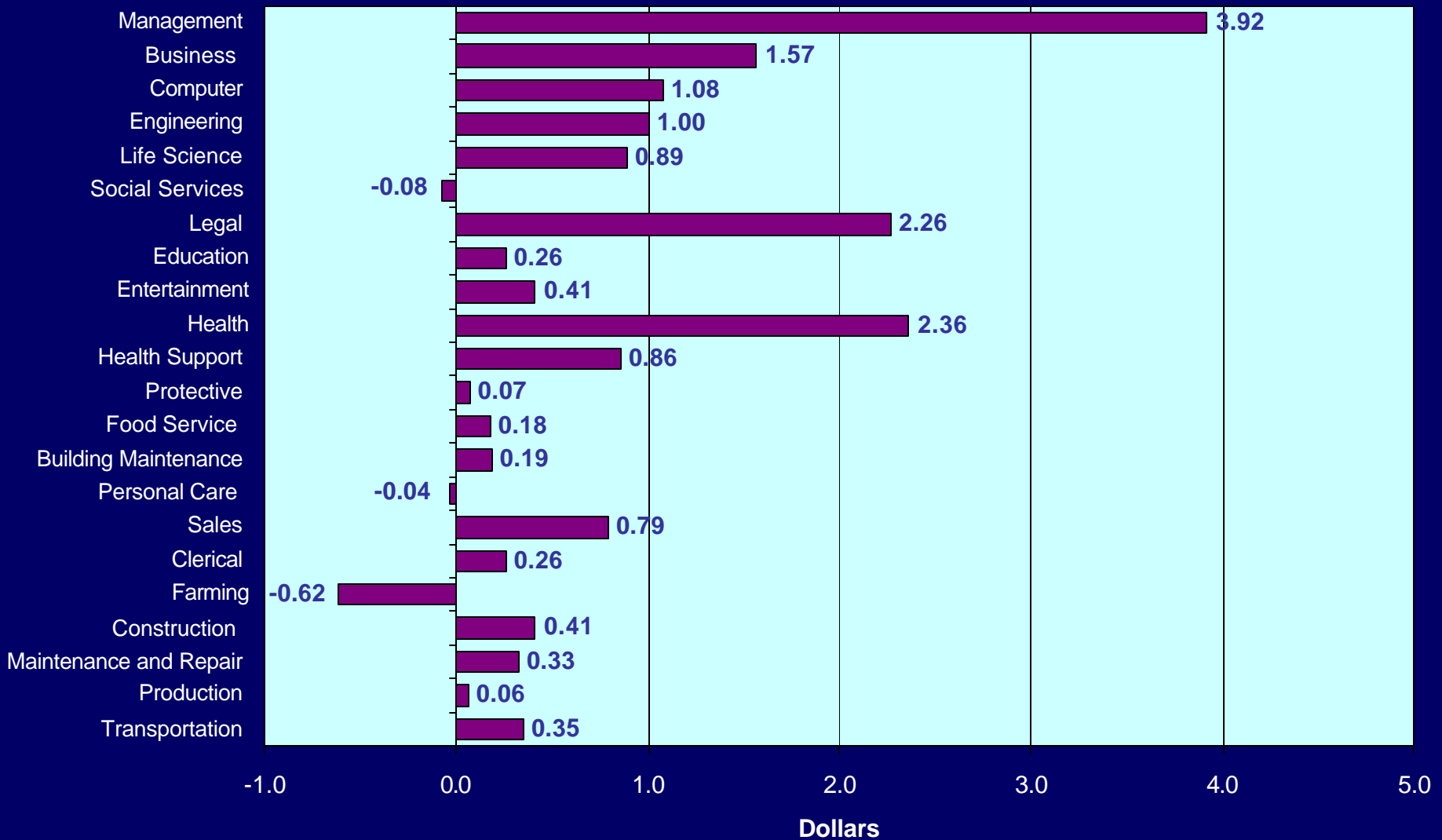
- 
- Wages for all major occupational groups, except social service, personal care, and agricultural occupations, have increased since the last Workforce Estimating Conference.
 - Managerial, health care, and legal occupations have experienced the greatest numerical increase in average wages.
- 



Occupational Wages (continued)

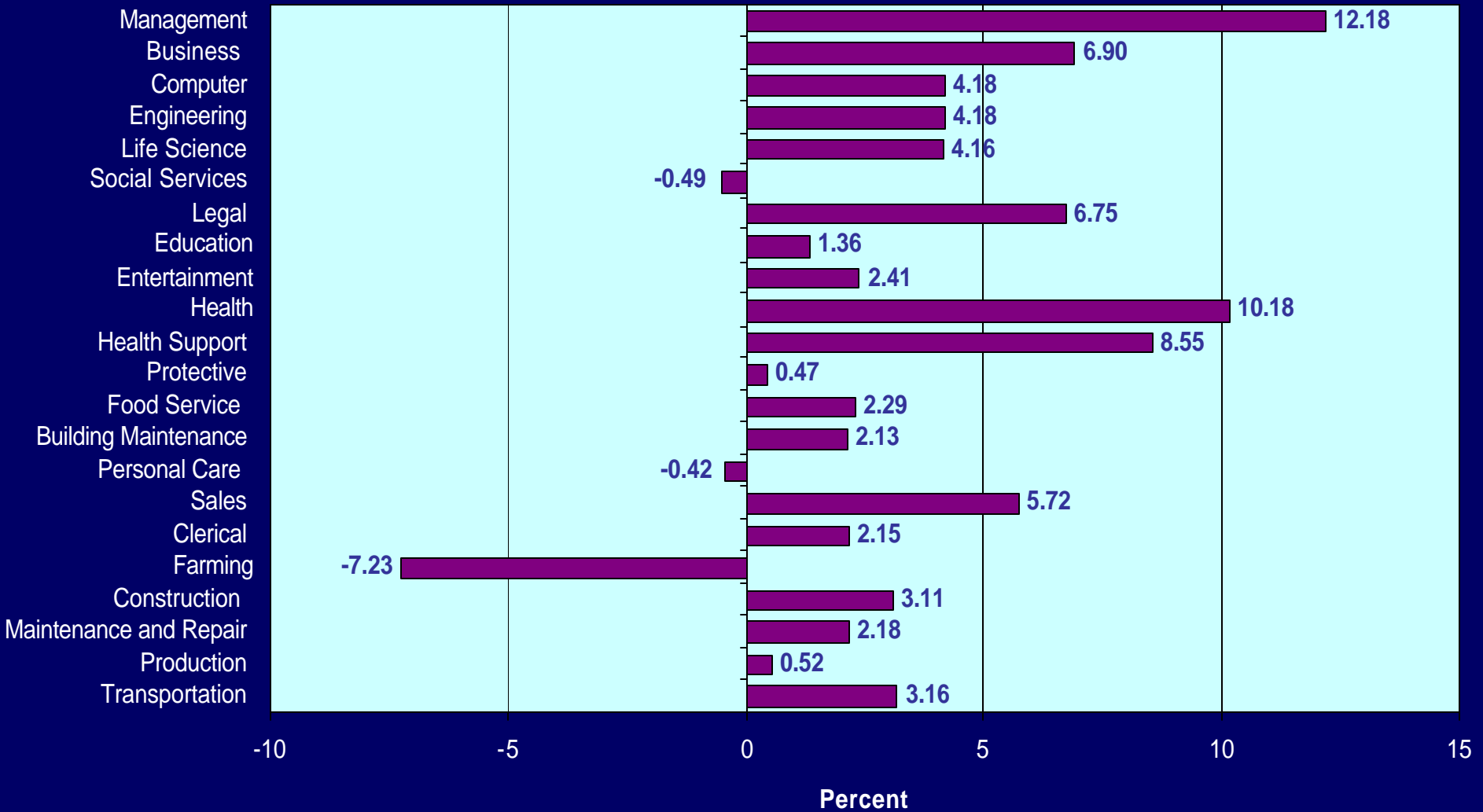
- Managerial, health care, and health support occupations have experienced the greatest percentage increase in average wages.
 - The 2003 Lower Living Standard Income Level (LLSIL), used as the high wage entry criteria, is \$10.74, up 2.6 percent from the 2002 level of \$10.48.
 - The 2003 average for all occupations requiring an associate's degree or postsecondary training is \$18.01 for the mean and \$11.58 for the entry wage.
- 
- 

Numerical Change in Wages by Major Occupational Group Florida 2002-2003



Source: Florida Agency for Workforce Innovation, Labor Market Statistics

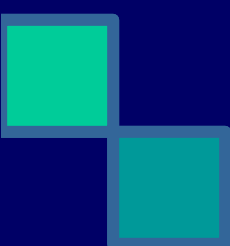
Percent Change in Wages by Major Occupational Group Florida 2002-2003



Source: Florida Agency for Workforce Innovation, Labor Market Statistics




State of Florida
Agency for Workforce Innovation
Labor Market Statistics



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Uses of WEC Results

- Targeting ITAs (forms of training vouchers)...
- Performance based funding for vo-tech centers and community colleges...
- Targeting jobs for special initiatives in education, training, and economic development...
- University Strategic planning...
- Consumer information...

***Other Targeted Occupations
important to Florida's Economy
(State Targeted Funding???)***

***High Wage/High Demand
Occupations (State Workforce
Funding for Level III)***

***ITA -Eligible Occupations...
(State Workforce Funding
for Level II)***

Targeted Jobs - Criteria

- Jobs that require postsecondary education/training less than baccalaureate degrees – there are problems with the codes – so some supplementation is proposed:
 - Some occupations identified by the codes as “requiring OJT but no formal training” are not correct
 - Some occupations identified as requiring < than baccalaureate levels of education require at least that
 - Some occupations identified as requiring < than baccalaureate require no training at all
 - LMI data are used for the selections, however, the WEC in the past has sanctioned the use of FETPIP data where there is evidence of high volumes/proportions of placements and earnings consistent with the WEC criteria.

More 

Targeted Jobs - Criteria



- Select jobs with sufficient numbers of permanent openings and employment growth to assure ample job opportunities to justify training ...
 - Openings Criteria
 - Growth Criteria

Targeted Jobs - Criteria

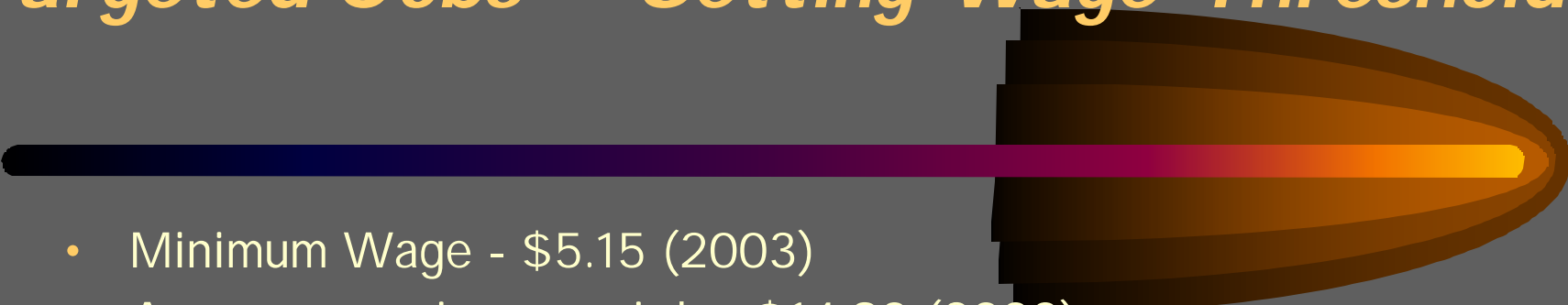


- ITA - Level II List -
 - Average wage high enough to assure career growth after initial employment, low enough to include good 'ports of entry'...
 - Entry level wage high enough to assure initial employment is above poverty wage...
- High Wage - Level III List
 - Average wage high enough to justify designation as "high wage job"...
 - Entry level wage high enough to justify designation as "high wage job"...

Targeted Jobs - Recommended Criteria

- Demand -
 - At least 50 annual openings with faster-than-average growth (1.96% based on 2011 projections)...
 - At least 100 annual openings and evidence of positive growth...
- High Wage –
 - Average wage at least \$16.85, entry at least \$10.74...
- All I TA
 - Average wage at least \$10.74, entry at least \$9.00

Targeted Jobs - Setting Wage Thresholds...

- 
- Minimum Wage - \$5.15 (2003)
 - Average earnings per job - \$14.90 (2000)
 - Per Capita - \$14.38 FI (2001)
 - OES Average Wage (all Occupations) - \$16.36 (current)
 - Annual Average Pay \$15.61 FI (2001)
 - PSAV-Type Occupations - \$14.47 (FETPIP 2002)
 - AS-Type Occupations - \$16.54 (FETPIP 2002)
 - Poverty Threshold -
 - Family of 3 - \$7.55 (2003)
 - Lower Living Standard - \$10.74 (South, 2003)

Weighted Average Wages in Florida

Description	2003	2002	Change	
			Number	Percent
Weighted average of the mean wage for all occupations	\$16.36	\$15.71	\$0.65	4.14%
Weighted average of the entry wage for all occupations	\$10.57	\$10.39	\$0.18	1.73%
Weighted average of the mean wage for occupations requiring an advanced degree (codes 1-3)	\$42.87	\$37.10	\$5.77	15.55%
Weighted average of the entry wage for occupations requiring an advanced degree (codes 1-3)	\$23.84	\$21.91	\$1.93	8.81%
Weighted average of the mean wage for occupations requiring a bachelor's degree (codes 4-5)	\$29.62	\$27.40	\$2.22	8.10%
Weighted average of the entry wage for occupations requiring a bachelor's degree (codes 4-5)	\$17.84	\$17.24	\$0.60	3.48%
Weighted average of the mean wage for occupations requiring an associate's degree or vocational training (codes 6-7)	\$18.01	\$17.43	\$0.58	3.33%
Weighted average of the entry wage for occupations requiring an associate's degree or vocational training (codes 6-7)	\$11.58	\$11.35	\$0.23	2.03%
Weighted average of the mean wage for occupations requiring an associate's degree, vocational training, related work experience, or moderate to long-term on-the-job training (codes 6-10)	\$16.85	\$15.24	\$1.61	10.56%
Weighted average of the entry wage for occupations requiring an associate's degree, vocational training, related work experience, or moderate to long-term on-the-job training (codes 6-10)	\$10.84	\$10.15	\$0.69	6.80%
Weighted average of the mean wage for occupations requiring short-term on-the-job training - less than high school (code 11)	\$9.23	\$9.08	\$0.15	1.65%
Weighted average of the entry wage for occupations requiring short-term on-the-job training - less than high school (code 11)	\$6.79	\$6.70	\$0.09	1.34%
Lower Living Standard Income Level (family of 3, south metro)	\$10.74	\$10.48	\$0.26	2.48%

Source: Florida Agency for Workforce Innovation, Labor Market Statistics and the U.S. Department of Labor, Employment and Training Administration

Occupational Education and Training Requirement Categories

As defined by the U.S. Bureau of Labor Statistics

1—First professional degree. *These are occupations that require a professional degree.* Completion of the academic program usually requires at least 6 years of full-time equivalent academic work, including college study prior to entering the professional degree program.

2—Doctoral degree. *These are occupations that generally require a Ph.D. or other degree.* Completion of the degree program usually requires at least 3 years of full-time equivalent academic work beyond the bachelor's degree.

3—Master's degree. *These are jobs that generally require a master's degree.* Completion of the degree program usually requires 1 or 2 years of full-time equivalent work beyond the bachelor's degree.

4—Work experience, plus a bachelor's degree or higher. *These are occupations that generally require work experience in an occupation requiring a bachelor's or higher degree.* Most occupations in this category are managerial occupations that require experience in a related non-managerial position.

5—Bachelor's degree. *These are jobs that generally require a bachelor's degree.* Completion of the degree program generally requires at least 4 years, but not more than 5 years, of full-time equivalent academic work.

6—Associate's degree. *These are occupations that generally require an associate's degree.* Completion of the degree program generally requires at least 2 years of full-time equivalent academic work.

7—Post-secondary vocational training. *These are jobs that generally require completion of vocational school training.* Some programs last only a few weeks while others may last up to two years. In some occupations, a license is needed that requires passing an examination after completion of the training.

8—Work experience in a related occupation. *These are jobs that generally require skills obtained through work experience in an occupation.* Some occupations requiring work experience are supervisory or managerial occupations.

9—Long-term on-the-job training. *These are jobs that generally require more than 12 months of on-the-job training or experience and formal classroom instruction for workers to develop the skills needed for average job performance.* This category includes formal and informal apprenticeships that may last up to 4 years and short-term intensive employer-sponsored training that workers successfully complete. Individuals undergoing training are considered "employed" in the occupation. This category includes occupations in which workers may gain experience through non-work activities.

10—Moderate-term on-the-job training. *These are occupations in which workers can develop the skills needed for average job performance after 1 to 12 months of combined on-the-job experience and informal training.*

11—Short-term on-the-job training. *These are occupations in which workers generally can develop the skills needed for average job performance after a short demonstration or up to 1 month of on-the-job experience and instruction.*

2004 Workforce Estimating Conference Potential Screening Criteria

HSHW Tables

**2004 Workforce Estimating Conference Potential Screening Criteria
HSHW Summary Table
Associate's Degree or Vocational Training**

Table	Education Level	Occupational Characteristic	Criteria	Occupational Count		
				Pass	Fail	Total
	Associate's/Vocational	Training Code	FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)	248	529	777
	Associate's/Vocational	Openings/Growth	50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth	84	164	248
		Wage	Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour			
<u>Other Screening Results</u>						
	Associate's/Vocational	Openings/Growth	50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth	99	149	248
		Wage	Mean Wage of \$15.71/hour and Entry Wage of \$10.48/hour			
	Associate's/Vocational	Openings/Growth	50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth	86	162	248
		Wage	Mean Wage of \$16.36/hour and Entry Wage of \$10.74/hour			

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
Table 1a

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
272021	Athletes and Sports Competitors	2,004	2,338	334	2.08	80	81.29	18.39	9	6
532011	Airline Pilots, Copilots, and Flight Engineers	4,903	5,075	172	0.44	133	61.52	21.35	5	6
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	6
532021	Air Traffic Controllers	2,125	2,328	203	1.19	113	42.08	24.01	9	7
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	6
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	6
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	6
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	6
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	6
419021	Real Estate Brokers	16,467	18,256	1,789	1.36	501	37.65	13.76	8	6
119111	Medical and Health Services Managers	14,252	18,542	4,290	3.76	763	36.07	21.28	4	6
113051	Industrial Production Managers	6,224	6,534	310	0.62	139	35.26	20.76	5	6
132052	Personal Financial Advisors	6,922	9,016	2,094	3.78	336	34.82	13.81	5	6
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	6
119021	Construction Managers	22,184	25,445	3,261	1.84	756	34.66	19.66	5	6
113071	Transportation, Storage, and Distribution Managers	6,337	7,334	997	1.97	224	34.09	20.10	8	7
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	6
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	6
151021	Computer Programmers	22,296	24,018	1,722	0.97	674	30.58	17.94	5	7
331012	First-Line Supervisors of Police and Detectives	5,849	6,507	658	1.41	235	29.74	20.67	8	6
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	6
292021	Dental Hygienists	7,484	9,812	2,328	3.89	391	29.20	18.67	6	6
271011	Art Directors	1,718	2,008	290	2.11	70	28.94	17.28	4	6
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	6
331021	First-Line Superv. of Fire Fighting and Prevention Workers	4,035	4,356	321	0.99	166	28.75	19.37	8	7
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	6
272012	Producers and Directors	3,881	4,802	921	2.97	185	28.28	13.68	4	6
132051	Financial Analysts	6,175	7,655	1,480	3.00	264	27.38	16.57	5	6
151071	Network and Computer Systems Administrators	11,496	16,627	5,131	5.58	685	26.87	18.37	5	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
Table 1a

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
151061	Database Administrators	5,888	7,728	1,840	3.91	253	26.67	15.24	5	6
132041	Credit Analysts	6,333	6,681	348	0.69	168	26.49	15.35	5	6
132031	Budget Analysts	3,303	3,795	492	1.86	125	25.22	18.02	5	6
292033	Nuclear Medicine Technologists	1,069	1,303	234	2.74	51	24.91	19.48	6	6
333021	Detectives and Criminal Investigators	7,063	8,007	944	1.67	271	24.50	16.98	8	6
119151	Social and Community Service Managers	6,052	7,165	1,113	2.30	248	24.49	15.60	5	6
413021	Insurance Sales Agents	42,257	44,251	1,994	0.59	1,313	24.09	10.87	5	7
119011	Farm, Ranch, and Other Agricultural Managers	13,918	13,608	(310)	-0.28	161	23.80	14.27	4	6
396031	Flight Attendants	5,311	5,944	633	1.49	257	23.74	15.26	9	7
535021	Captains, Mates, and Pilots of Water Vessels	2,950	3,100	150	0.64	118	23.59	10.97	8	7
491011	First-Line Superv. of Mechanics, Installers, and Repairers	25,836	30,454	4,618	2.23	1,219	23.39	15.25	8	7
132053	Insurance Underwriters	4,648	5,096	448	1.20	125	23.13	14.18	5	6
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	6	6
292032	Diagnostic Medical Sonographers	2,333	2,907	574	3.08	120	23.05	17.86	6	6
413011	Advertising Sales Agents	10,661	13,071	2,410	2.83	505	22.75	10.79	10	7
259031	Instructional Coordinators	3,446	4,200	754	2.74	142	22.51	14.53	3	6
119141	Property, Real Estate & Community Association Managers	21,337	24,063	2,726	1.60	677	22.36	11.16	5	6
119051	Food Service Managers	21,992	24,444	2,452	1.39	559	22.34	14.16	8	7
271025	Interior Designers	7,533	8,548	1,015	1.68	200	22.19	13.40	5	6
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	8,284	8,890	606	0.91	283	21.68	14.27	9	7
192041	Environmental Scientists & Specialists, Including Health	5,340	6,063	723	1.69	258	21.56	14.84	5	6
131031	Claims Adjusters, Examiners, and Investigators	11,710	14,290	2,580	2.75	446	21.52	13.98	9	7
273042	Technical Writers	2,090	2,445	355	2.12	105	21.42	14.56	5	6
271014	Multi-Media Artists and Animators	4,063	4,832	769	2.37	176	20.88	13.51	5	6
499051	Electrical Power-Line Installers and Repairers	5,122	5,766	644	1.57	242	20.85	14.49	9	7
534011	Locomotive Engineers	936	1,102	166	2.22	61	20.79	13.55	11	7
493011	Aircraft Mechanics and Service Technicians	10,321	11,576	1,255	1.52	369	20.56	14.27	7	7
333051	Police and Sheriff's Patrol Officers	38,874	46,662	7,788	2.50	1,752	20.55	14.78	9	7
292011	Medical and Clinical Laboratory Technologists	8,846	10,506	1,660	2.35	406	20.54	16.15	5	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
Table 1a

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
474011	Construction and Building Inspectors	5,274	5,840	566	1.34	187	20.54	15.00	8	7
173023	Electrical and Electronic Engineering Technicians	16,242	17,094	852	0.66	431	20.12	14.09	6	6
312011	Occupational Therapist Assistants	869	1,176	307	4.42	62	19.86	15.53	6	6
232011	Paralegals and Legal Assistants	19,909	23,759	3,850	2.42	597	19.70	13.94	6	6
492022	Telecommunications Equipment Installers and Repairers	9,196	9,438	242	0.33	202	19.54	13.81	7	7
291031	Dietitians and Nutritionists	2,579	2,869	290	1.41	104	19.39	12.85	5	7
431011	First-Line Superv. of Office and Admin. Support Workers	84,923	93,257	8,334	1.23	2,643	19.39	12.50	8	6
291126	Respiratory Therapists	5,953	7,956	2,003	4.21	387	19.34	15.63	6	6
273031	Public Relations Specialists	11,120	14,298	3,178	3.57	573	19.10	12.29	5	6
251194	Vocational Education Teachers, Postsecondary	4,556	5,764	1,208	3.31	267	19.08	11.98	8	7
173012	Electrical and Electronics Drafters	1,556	1,866	310	2.49	84	18.94	13.15	7	7
292034	Radiologic Technologists and Technicians	12,503	15,510	3,007	3.01	634	18.75	13.98	6	6
492094	Electronics Repairers, Commercial and Industrial Equip.	4,175	4,791	616	1.84	158	18.72	12.38	7	7
312021	Physical Therapist Assistants	3,053	4,131	1,078	4.41	217	18.60	14.23	6	6
411011	First-Line Supervisors of Retail Sales Workers	125,920	141,640	15,720	1.56	3,725	18.55	10.77	8	7
173022	Civil Engineering Technicians	6,455	6,686	231	0.45	158	18.43	12.71	6	6
173011	Architectural and Civil Drafters	10,472	11,724	1,252	1.49	464	18.41	13.26	7	7
499062	Medical Equipment Repairers	1,566	1,880	314	2.51	76	18.35	11.71	10	6
119031	Education Administrators, Preschool and Child Care	3,314	4,061	747	2.82	175	18.17	11.91	4	6
436012	Legal Secretaries	15,137	16,658	1,521	1.26	441	17.84	13.78	7	7
472221	Structural Iron and Steel Workers	4,368	5,203	835	2.39	149	17.82	12.50	9	7
151041	Computer Support Specialists	28,415	38,038	9,623	4.23	1,313	17.39	10.75	6	7
271024	Graphic Designers	14,118	17,208	3,090	2.74	520	17.29	11.01	5	6
499041	Industrial Machinery Mechanics	6,911	7,543	632	1.14	261	17.10	12.03	9	7
211092	Probation Officers and Correctional Treatment Specialists	6,436	7,170	734	1.43	185	16.92	13.50	5	7
194091	Environmental Science Technicians, Including Health	2,513	2,953	440	2.19	143	16.85	11.39	6	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
<u>Occupations Failing at Least 1 of 3 Criteria</u>										
151011	Computer and Information Scientists, Research	958	1,172	214	2.79	35	38.02	24.50	2	7
131011	Agents and Business Managers of Artists & Entertainers	963	1,112	149	1.93	37	37.50	13.47	4	6
518011	Nuclear Power Reactor Operators	142	135	(7)	-0.62	4	30.81	25.44	9	7
119131	Postmasters and Mail Superintendents	425	464	39	1.15	12	29.03	23.14	8	6
132061	Financial Examiners	1,013	1,211	198	2.44	43	28.19	17.46	5	7
292091	Orthotists and Prosthetists	541	683	142	3.28	31	28.15	14.49	5	6
532012	Commercial Pilots	1,028	1,228	200	2.43	47	27.61	16.70	7	7
535031	Ship Engineers	564	633	69	1.53	27	26.82	19.24	7	7
271022	Fashion Designers	452	497	45	1.24	10	25.53	12.14	5	6
518012	Power Distributors and Dispatchers	400	386	(14)	-0.44	12	25.04	16.85	9	7
291124	Radiation Therapists	887	1,064	177	2.49	39	24.85	19.33	6	6
173021	Aerospace Engineering and Operations Technicians	605	600	(5)	-0.10	12	24.06	17.87	6	6
299010	Occupational Health & Safety Specialists & Technicians	1,443	1,629	186	1.61	59	23.92	14.53	5	7
119061	Funeral Directors	1,180	1,357	177	1.88	42	23.53	14.87	6	6
271013	Fine Artists, Including Painters, Sculptors, & Illustrators	1,399	1,579	180	1.61	50	23.23	10.34	5	6
518013	Power Plant Operators	2,412	2,480	68	0.35	80	23.18	17.33	9	7
273020	News Analysts, Reporters and Correspondents	3,849	3,953	104	0.34	137	22.96	10.73	9	6
271021	Commercial and Industrial Designers	1,037	1,211	174	2.10	32	22.16	10.96	5	6
492095	Electrical Repairers, Powerhouse, Substation, and Relay	657	656	(1)	-0.02	13	22.06	15.68	7	7
333052	Transit and Railroad Police	39	41	2	0.64	1	21.71	16.17	9	7
332022	Forest Fire Inspectors and Prevention Specialists	18	20	2	1.39	1	21.69	18.10	8	6
332021	Fire Inspectors and Investigators	963	1,154	191	2.48	48	21.11	15.47	8	6
492091	Avionics Technicians	1,091	1,173	82	0.94	32	20.61	16.03	7	7
173013	Mechanical Drafters	2,208	2,440	232	1.31	94	20.45	13.58	7	7
173026	Industrial Engineering Technicians	2,785	2,975	190	0.85	79	20.37	13.76	6	6
419022	Real Estate Sales Agents	35,693	39,120	3,427	1.20	1,032	20.21	9.27	7	7
534031	Railroad Conductors and Yardmasters	1,555	1,529	(26)	-0.21	70	19.91	16.31	8	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
518092	Gas Plant Operators	220	225	5	0.28	7	19.87	12.95	9	7
173027	Mechanical Engineering Technicians	1,644	1,876	232	1.76	61	19.54	13.77	6	6
194092	Forensic Science Technicians	1,191	1,285	94	0.99	54	18.85	13.05	6	6
518091	Chemical Plant and System Operators	1,197	1,115	(82)	-0.86	37	18.70	13.48	9	7
232091	Court Reporters	900	1,131	231	3.21	37	18.33	9.39	7	7
272041	Music Directors and Composers	4,644	5,628	984	2.65	206	18.21	8.55	4	6
173024	Electro-Mechanical Technicians	1,806	2,053	247	1.71	66	18.01	11.97	6	6
514012	Numerical Tool and Process Control Programmers	377	411	34	1.13	17	17.99	12.54	9	7
492021	Radio Mechanics	364	309	(55)	-1.89	7	17.90	11.97	7	7
232093	Title Examiners, Abstractors, and Searchers	3,548	3,822	274	0.97	66	17.75	11.61	10	7
332011	Fire Fighters	16,771	18,780	2,009	1.50	672	17.67	10.65	9	7
519011	Chemical Equipment Operators and Tenders	1,602	1,779	177	1.38	59	17.47	11.93	10	7
518021	Stationary Engineers and Boiler Operators	1,358	1,408	50	0.46	44	17.44	11.90	9	7
274032	Film and Video Editors	903	1,125	222	3.07	45	17.33	9.63	5	6
292031	Cardiovascular Technologists and Technicians	2,937	3,917	980	4.17	182	17.32	10.31	6	6
351011	Chefs and Head Cooks	7,501	7,779	278	0.46	264	17.30	10.38	7	6
499052	Telecommunications Line Installers and Repairers	11,702	14,419	2,717	2.90	549	16.95	10.28	9	7
273091	Interpreters and Translators	1,001	1,178	177	2.21	41	16.88	9.92	9	6
292054	Respiratory Therapy Technicians	1,589	2,127	538	4.23	105	16.80	14.54	7	6
451011	First-Line Superv. of Farming, Fishing, & Forestry Workers	6,601	6,831	230	0.44	79	16.73	10.68	10	6
493021	Automotive Body and Related Repairers	9,835	11,595	1,760	2.24	452	16.63	9.23	9	7
173025	Environmental Engineering Technicians	1,109	1,340	231	2.60	50	16.60	11.46	6	6
518031	Water and Liquid Waste Treatment Plant Operators	6,112	7,086	974	1.99	307	16.51	11.83	9	7
371012	First-Line Superv. of Landscaping and Groundskeeping	14,845	15,946	1,101	0.93	217	16.48	10.52	8	7
519081	Dental Laboratory Technicians	3,901	4,147	246	0.79	135	16.45	10.51	9	7
472044	Tile and Marble Setters	4,980	5,626	646	1.62	162	16.37	10.00	9	7
274014	Sound Engineering Technicians	718	860	142	2.47	38	16.31	9.71	7	6
472111	Electricians	40,017	49,945	9,928	3.10	1,943	16.22	11.62	9	7
333012	Correctional Officers and Jailers	32,075	38,061	5,986	2.33	1,491	16.18	13.73	10	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
436011	Executive Secretaries and Administrative Assistants	98,907	112,289	13,382	1.69	3,297	16.10	11.60	10	7
472152	Plumbers, Pipefitters, and Steamfitters	28,924	33,681	4,757	2.06	1,052	16.10	11.29	9	7
292081	Opticians, Dispensing	6,164	7,002	838	1.70	215	16.10	11.05	9	7
493031	Bus and Truck Mechanics and Diesel Engine Specialists	13,966	15,758	1,792	1.60	571	15.99	11.55	7	7
272032	Choreographers	1,339	1,709	370	3.45	70	15.88	10.64	8	7
211023	Mental Health and Substance Abuse Social Workers	4,327	5,637	1,310	3.78	209	15.79	11.39	3	6
292061	Licensed Practical and Licensed Vocational Nurses	46,765	56,084	9,319	2.49	2,305	15.72	12.45	7	7
492093	Electronics Installers & Repairers, Transportation Equip.	1,083	1,287	204	2.35	45	15.67	10.97	7	7
493051	Motorboat Mechanics	3,518	3,796	278	0.99	122	15.66	10.50	9	7
472161	Plasterers and Stucco Masons	6,266	7,222	956	1.91	232	15.64	10.76	9	7
493023	Automotive Service Technicians and Mechanics	53,355	63,817	10,462	2.45	2,504	15.60	9.10	7	7
532022	Airfield Operations Specialists	261	307	46	2.20	16	15.57	9.61	11	7
232092	Law Clerks	1,684	1,846	162	1.20	35	15.54	10.21	5	6
152091	Mathematical Technicians	210	221	11	0.65	4	15.54	12.46	6	6
472021	Brickmasons and Blockmasons	6,425	7,462	1,037	2.02	244	15.52	11.03	9	7
452011	Agricultural Inspectors	689	695	6	0.11	18	15.43	11.91	8	7
492011	Computer, ATM, and Office Machine Repairers	8,914	10,146	1,232	1.73	247	15.42	10.40	7	7
492098	Security and Fire Alarm Systems Installers	2,922	3,546	624	2.67	130	15.42	10.40	7	7
533032	Truck Drivers, Heavy and Tractor-Trailer	75,251	86,816	11,565	1.92	2,440	15.32	10.12	10	7
499021	Heating, A.C., and Refrigeration Mechanics and Installers	22,868	27,700	4,832	2.64	829	15.27	10.95	9	7
274012	Broadcast Technicians	3,198	3,832	634	2.48	170	15.21	8.32	7	7
274031	Camera Operators, Television, Video, and Motion Picture	1,456	1,791	335	2.88	69	15.18	8.49	10	7
439031	Desktop Publishers	1,742	2,612	870	6.24	136	15.12	10.39	7	7
514041	Machinists	10,233	11,423	1,190	1.45	353	15.05	10.22	9	7
274011	Audio and Video Equipment Technicians	2,292	2,706	414	2.26	117	15.03	8.68	9	7
499097	Signal and Track Switch Repairers	227	215	(12)	-0.66	5	15.00	10.13	9	7
292055	Surgical Technologists	3,995	5,109	1,114	3.49	236	14.82	11.62	7	7
472211	Sheet Metal Workers	11,104	13,254	2,150	2.42	488	14.81	10.28	10	7
434011	Brokerage Clerks	3,302	3,615	313	1.18	81	14.80	10.84	10	6

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
492092	Electric Motor, Power Tool, and Related Repairers	2,219	2,480	261	1.47	82	14.78	10.41	7	7
271027	Set and Exhibit Designers	653	763	110	2.11	20	14.77	9.93	5	6
472130	Insulation Workers	3,857	4,421	564	1.83	183	14.68	8.85	10	7
536041	Traffic Technicians	153	172	19	1.55	8	14.52	9.98	11	6
512011	Aircraft Structure, Surfaces, and Systems Assemblers	1,416	1,445	29	0.26	40	14.51	10.61	9	7
493041	Farm Equipment Mechanics	1,800	1,882	82	0.57	56	14.48	9.51	7	7
472031	Carpenters	60,276	69,049	8,773	1.82	2,079	14.39	9.91	9	7
492097	Home Entertainment Electronics Installers and Repairers	2,502	2,405	(97)	-0.48	47	14.35	8.61	7	7
292012	Medical and Clinical Laboratory Technicians	8,335	9,851	1,516	2.27	376	14.20	9.57	6	7
472073	Operating Engineers/Construction Equipment Operators	21,093	23,091	1,998	1.18	699	14.10	10.26	10	7
472081	Drywall and Ceiling Tile Installers	9,369	10,878	1,509	2.01	275	14.05	10.03	10	7
434131	Loan Interviewers and Clerks	12,437	10,815	(1,622)	-1.63	87	14.03	10.23	11	7
493052	Motorcycle Mechanics	861	928	67	0.97	30	13.86	8.84	9	7
519193	Cooling and Freezing Equipment Operators and Tenders	345	337	(8)	-0.29	6	13.84	8.94	10	7
435031	Police, Fire, and Ambulance Dispatchers	5,635	6,349	714	1.58	179	13.82	10.39	10	7
472051	Cement Masons and Concrete Finishers	11,240	12,762	1,522	1.69	283	13.72	9.38	9	7
499031	Home Appliance Repairers	2,602	2,866	264	1.27	85	13.71	8.68	9	7
472053	Terrazzo Workers and Finishers	244	288	44	2.25	8	13.67	9.00	9	7
274013	Radio Operators	171	176	5	0.37	6	13.66	7.97	9	6
514121	Welders, Cutters, Solderers, and Brazers	18,700	23,065	4,365	2.92	1,040	13.57	9.54	7	7
474041	Hazardous Materials Removal Workers	1,528	1,823	295	2.41	81	13.54	9.03	10	7
413041	Travel Agents	12,309	12,415	106	0.11	311	13.50	8.96	7	7
472181	Roofers	12,478	14,333	1,855	1.86	506	13.44	9.56	10	7
351012	First-Line Superv. of Food Preparation & Serving Workers	46,473	51,334	4,861	1.31	1,750	13.39	8.91	8	7
371011	First-Line Superv. of Housekeeping & Janitorial Workers	14,175	16,625	2,450	2.16	675	13.34	9.13	8	7
394011	Embalmers	374	403	29	0.97	12	13.32	6.14	7	6
493053	Outdoor Power Equipment and Small Engine Mechanics	2,577	2,715	138	0.67	81	13.25	9.49	10	7
472141	Painters, Construction and Maintenance	30,313	34,447	4,134	1.70	1,033	13.22	9.37	10	7
319094	Medical Transcriptionists	4,860	6,140	1,280	3.29	280	13.18	9.74	7	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
173031	Surveying and Mapping Technicians	7,562	8,827	1,265	2.09	393	13.11	9.09	10	6
319011	Massage Therapists	3,266	3,952	686	2.63	156	13.06	6.84	7	7
472121	Glaziers	4,744	5,766	1,022	2.69	211	12.98	8.30	9	7
433031	Bookkeeping, Accounting, and Auditing Clerks	128,237	140,085	11,848	1.15	3,858	12.98	9.16	10	7
292041	Emergency Medical Technicians and Paramedics	8,571	10,350	1,779	2.59	428	12.92	9.12	7	7
499042	Maintenance and Repair Workers, General	73,118	78,668	5,550	0.95	1,626	12.86	8.66	9	7
434051	Customer Service Representatives	141,508	180,708	39,200	3.46	6,017	12.62	9.07	10	7
492096	Electronics Installers & Repairers, Motor Vehicles	510	598	88	2.16	22	12.57	9.12	7	7
274021	Photographers	7,999	8,839	840	1.31	260	12.54	7.06	9	7
516093	Upholsterers	2,206	1,968	(238)	-1.35	75	12.50	8.19	9	7
319091	Dental Assistants	15,382	20,024	4,642	3.77	835	12.48	9.52	10	7
533033	Truck Drivers, Light or Delivery Services	62,887	74,051	11,164	2.22	2,221	12.35	7.71	11	7
515021	Job Printers	4,895	5,761	866	2.21	226	12.14	8.18	9	7
512031	Engine and Other Machine Assemblers	1,313	1,643	330	3.14	66	12.13	8.19	11	7
132082	Tax Preparers	6,085	7,141	1,056	2.17	248	12.10	8.01	10	6
292071	Medical Records and Health Information Technicians	11,554	16,068	4,514	4.88	797	12.05	8.80	6	7
512091	Fiberglass Laminators and Fabricators	3,175	3,383	208	0.82	81	12.03	8.81	10	7
436014	Secretaries, Except Legal, Medical, and Executive	108,356	112,324	3,968	0.46	2,321	11.91	8.50	10	7
373012	Pesticide Handlers, Sprayers, & Applicators, Vegetation	3,266	3,504	238	0.91	110	11.86	8.75	10	6
517011	Cabinetmakers and Bench Carpenters	8,934	9,918	984	1.38	399	11.80	8.24	9	7
272031	Dancers	891	989	98	1.37	29	11.67	6.46	9	7
254031	Library Technicians	4,594	5,422	828	2.25	298	11.64	9.03	11	6
436013	Medical Secretaries	24,148	28,795	4,647	2.41	972	11.60	9.22	7	7
311013	Psychiatric Aides	3,865	4,254	389	1.26	97	11.42	9.06	11	7
312012	Occupational Therapist Aides	323	432	109	4.22	22	11.39	8.87	11	6
319092	Medical Assistants	31,325	44,011	12,686	5.06	2,332	11.36	9.21	10	7
516052	Tailors, Dressmakers, and Custom Sewers	3,419	3,513	94	0.34	87	11.23	7.03	8	7
292051	Dietetic Technicians	1,474	1,900	426	3.61	89	11.08	7.04	10	6
473012	Helpers - Carpenters	5,791	6,555	764	1.65	373	10.93	8.35	11	7

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		2003	2011	Total	Annual %		Mean	Entry	Training Code	Training Code
Code	Title									
211093	Social and Human Service Assistants	11,619	16,361	4,742	5.10	748	10.92	7.50	10	7
312022	Physical Therapist Aides	1,581	2,122	541	4.28	110	10.67	8.05	11	6
292053	Psychiatric Technicians	3,199	3,767	568	2.22	150	10.66	8.29	7	7
259041	Teacher Assistants	41,423	50,307	8,884	2.68	1,930	10.60	7.98	11	7
292056	Veterinary Technologists and Technicians	5,483	6,651	1,168	2.66	280	10.54	7.92	6	6
433071	Tellers	25,351	24,608	(743)	-0.37	1,227	10.26	8.37	11	7
292052	Pharmacy Technicians	13,733	18,310	4,577	4.17	898	10.25	7.64	10	7
271023	Floral Designers	4,220	4,683	463	1.37	99	10.22	7.61	10	6
474091	Segmental Pavers	68	84	16	2.94	3	10.18	9.86	11	7
513011	Bakers	7,463	8,998	1,535	2.57	304	10.17	7.69	9	6
533022	Bus Drivers, School	21,529	23,211	1,682	0.98	747	10.12	6.86	11	7
512092	Team Assemblers	40,505	43,015	2,510	0.77	1,012	10.11	7.39	10	6
512022	Electrical and Electronic Equipment Assemblers	11,850	11,378	(472)	-0.50	307	9.70	7.07	11	7
319093	Medical Equipment Preparers	2,796	3,380	584	2.61	143	9.63	7.77	11	7
311012	Nursing Aides, Orderlies, and Attendants	75,874	95,348	19,474	3.21	3,340	9.55	7.78	11	7
373011	Landscaping and Groundskeeping Workers	99,579	123,477	23,898	3.00	5,334	9.49	6.99	11	6
399032	Recreation Workers	19,570	23,031	3,461	2.21	820	9.44	6.40	5	6
513023	Slaughterers and Meat Packers	1,040	969	(71)	-0.85	26	9.05	6.95	10	7
311011	Home Health Aides	27,854	37,347	9,493	4.26	1,512	8.85	7.28	11	7
394021	Funeral Attendants	1,791	2,249	458	3.20	96	8.65	6.51	11	6
399011	Child Care Workers	52,447	62,490	10,043	2.39	2,949	7.48	6.16	11	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed HSHW Criteria:

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- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	6
532021	Air Traffic Controllers	2,125	2,328	203	1.19	113	42.08	24.01	9	7
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	6
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	6
532011	Airline Pilots, Copilots, and Flight Engineers	4,903	5,075	172	0.44	133	61.52	21.35	5	6
119111	Medical and Health Services Managers	14,252	18,542	4,290	3.76	763	36.07	21.28	4	6
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	6
113051	Industrial Production Managers	6,224	6,534	310	0.62	139	35.26	20.76	5	6
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	6
331012	First-Line Supervisors of Police and Detectives	5,849	6,507	658	1.41	235	29.74	20.67	8	6
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	6
113071	Transportation, Storage, and Distribution Managers	6,337	7,334	997	1.97	224	34.09	20.10	8	7
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	6
119021	Construction Managers	22,184	25,445	3,261	1.84	756	34.66	19.66	5	6
292033	Nuclear Medicine Technologists	1,069	1,303	234	2.74	51	24.91	19.48	6	6
331021	First-Line Superv. of Fire Fighting and Prevention Workers	4,035	4,356	321	0.99	166	28.75	19.37	8	7
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	6
292021	Dental Hygienists	7,484	9,812	2,328	3.89	391	29.20	18.67	6	6
272021	Athletes and Sports Competitors	2,004	2,338	334	2.08	80	81.29	18.39	9	6
151071	Network and Computer Systems Administrators	11,496	16,627	5,131	5.58	685	26.87	18.37	5	7
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	6	6
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	6
132031	Budget Analysts	3,303	3,795	492	1.86	125	25.22	18.02	5	6
151021	Computer Programmers	22,296	24,018	1,722	0.97	674	30.58	17.94	5	7
292032	Diagnostic Medical Sonographers	2,333	2,907	574	3.08	120	23.05	17.86	6	6
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	6
271011	Art Directors	1,718	2,008	290	2.11	70	28.94	17.28	4	6
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	6
333021	Detectives and Criminal Investigators	7,063	8,007	944	1.67	271	24.50	16.98	8	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
132051	Financial Analysts	6,175	7,655	1,480	3.00	264	27.38	16.57	5	6
292011	Medical and Clinical Laboratory Technologists	8,846	10,506	1,660	2.35	406	20.54	16.15	5	6
291126	Respiratory Therapists	5,953	7,956	2,003	4.21	387	19.34	15.63	6	6
119151	Social and Community Service Managers	6,052	7,165	1,113	2.30	248	24.49	15.60	5	6
312011	Occupational Therapist Assistants	869	1,176	307	4.42	62	19.86	15.53	6	6
132041	Credit Analysts	6,333	6,681	348	0.69	168	26.49	15.35	5	6
396031	Flight Attendants	5,311	5,944	633	1.49	257	23.74	15.26	9	7
491011	First-Line Superv. of Mechanics, Installers, and Repairers	25,836	30,454	4,618	2.23	1,219	23.39	15.25	8	7
151061	Database Administrators	5,888	7,728	1,840	3.91	253	26.67	15.24	5	6
474011	Construction and Building Inspectors	5,274	5,840	566	1.34	187	20.54	15.00	8	7
192041	Environmental Scientists & Specialists, Including Health	5,340	6,063	723	1.69	258	21.56	14.84	5	6
333051	Police and Sheriff's Patrol Officers	38,874	46,662	7,788	2.50	1,752	20.55	14.78	9	7
273042	Technical Writers	2,090	2,445	355	2.12	105	21.42	14.56	5	6
259031	Instructional Coordinators	3,446	4,200	754	2.74	142	22.51	14.53	3	6
499051	Electrical Power-Line Installers and Repairers	5,122	5,766	644	1.57	242	20.85	14.49	9	7
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	6
119011	Farm, Ranch, and Other Agricultural Managers	13,918	13,608	(310)	-0.28	161	23.80	14.27	4	6
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	8,284	8,890	606	0.91	283	21.68	14.27	9	7
493011	Aircraft Mechanics and Service Technicians	10,321	11,576	1,255	1.52	369	20.56	14.27	7	7
312021	Physical Therapist Assistants	3,053	4,131	1,078	4.41	217	18.60	14.23	6	6
132053	Insurance Underwriters	4,648	5,096	448	1.20	125	23.13	14.18	5	6
119051	Food Service Managers	21,992	24,444	2,452	1.39	559	22.34	14.16	8	7
173023	Electrical and Electronic Engineering Technicians	16,242	17,094	852	0.66	431	20.12	14.09	6	6
131031	Claims Adjusters, Examiners, and Investigators	11,710	14,290	2,580	2.75	446	21.52	13.98	9	7
292034	Radiologic Technologists and Technicians	12,503	15,510	3,007	3.01	634	18.75	13.98	6	6
232011	Paralegals and Legal Assistants	19,909	23,759	3,850	2.42	597	19.70	13.94	6	6
132052	Personal Financial Advisors	6,922	9,016	2,094	3.78	336	34.82	13.81	5	6
492022	Telecommunications Equipment Installers and Repairers	9,196	9,438	242	0.33	202	19.54	13.81	7	7
436012	Legal Secretaries	15,137	16,658	1,521	1.26	441	17.84	13.78	7	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
419021	Real Estate Brokers	16,467	18,256	1,789	1.36	501	37.65	13.76	8	6
272012	Producers and Directors	3,881	4,802	921	2.97	185	28.28	13.68	4	6
534011	Locomotive Engineers	936	1,102	166	2.22	61	20.79	13.55	11	7
271014	Multi-Media Artists and Animators	4,063	4,832	769	2.37	176	20.88	13.51	5	6
211092	Probation Officers and Correctional Treatment Specialists	6,436	7,170	734	1.43	185	16.92	13.50	5	7
271025	Interior Designers	7,533	8,548	1,015	1.68	200	22.19	13.40	5	6
173011	Architectural and Civil Drafters	10,472	11,724	1,252	1.49	464	18.41	13.26	7	7
173012	Electrical and Electronics Drafters	1,556	1,866	310	2.49	84	18.94	13.15	7	7
291031	Dietitians and Nutritionists	2,579	2,869	290	1.41	104	19.39	12.85	5	7
173022	Civil Engineering Technicians	6,455	6,686	231	0.45	158	18.43	12.71	6	6
431011	First-Line Superv. of Office and Admin. Support Workers	84,923	93,257	8,334	1.23	2,643	19.39	12.50	8	6
472221	Structural Iron and Steel Workers	4,368	5,203	835	2.39	149	17.82	12.50	9	7
492094	Electronics Repairers, Commercial and Industrial Equip.	4,175	4,791	616	1.84	158	18.72	12.38	7	7
273031	Public Relations Specialists	11,120	14,298	3,178	3.57	573	19.10	12.29	5	6
499041	Industrial Machinery Mechanics	6,911	7,543	632	1.14	261	17.10	12.03	9	7
251194	Vocational Education Teachers, Postsecondary	4,556	5,764	1,208	3.31	267	19.08	11.98	8	7
119031	Education Administrators, Preschool and Child Care	3,314	4,061	747	2.82	175	18.17	11.91	4	6
499062	Medical Equipment Repairers	1,566	1,880	314	2.51	76	18.35	11.71	10	6
194091	Environmental Science Technicians, Including Health	2,513	2,953	440	2.19	143	16.85	11.39	6	6
119141	Property, Real Estate & Community Association Managers	21,337	24,063	2,726	1.60	677	22.36	11.16	5	6
271024	Graphic Designers	14,118	17,208	3,090	2.74	520	17.29	11.01	5	6
535021	Captains, Mates, and Pilots of Water Vessels	2,950	3,100	150	0.64	118	23.59	10.97	8	7
413021	Insurance Sales Agents	42,257	44,251	1,994	0.59	1,313	24.09	10.87	5	7
413011	Advertising Sales Agents	10,661	13,071	2,410	2.83	505	22.75	10.79	10	7
411011	First-Line Supervisors of Retail Sales Workers	125,920	141,640	15,720	1.56	3,725	18.55	10.77	8	7
151041	Computer Support Specialists	28,415	38,038	9,623	4.23	1,313	17.39	10.75	6	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
<u>Occupations Failing at Least 1 of 3 Criteria</u>										
518011	Nuclear Power Reactor Operators	142	135	(7)	-0.62	4	30.81	25.44	9	7
151011	Computer and Information Scientists, Research	958	1,172	214	2.79	35	38.02	24.50	2	7
119131	Postmasters and Mail Superintendents	425	464	39	1.15	12	29.03	23.14	8	6
291124	Radiation Therapists	887	1,064	177	2.49	39	24.85	19.33	6	6
535031	Ship Engineers	564	633	69	1.53	27	26.82	19.24	7	7
332022	Forest Fire Inspectors and Prevention Specialists	18	20	2	1.39	1	21.69	18.10	8	6
173021	Aerospace Engineering and Operations Technicians	605	600	(5)	-0.10	12	24.06	17.87	6	6
132061	Financial Examiners	1,013	1,211	198	2.44	43	28.19	17.46	5	7
518013	Power Plant Operators	2,412	2,480	68	0.35	80	23.18	17.33	9	7
518012	Power Distributors and Dispatchers	400	386	(14)	-0.44	12	25.04	16.85	9	7
532012	Commercial Pilots	1,028	1,228	200	2.43	47	27.61	16.70	7	7
534031	Railroad Conductors and Yardmasters	1,555	1,529	(26)	-0.21	70	19.91	16.31	8	7
333052	Transit and Railroad Police	39	41	2	0.64	1	21.71	16.17	9	7
492091	Avionics Technicians	1,091	1,173	82	0.94	32	20.61	16.03	7	7
492095	Electrical Repairers, Powerhouse, Substation, and Relay	657	656	(1)	-0.02	13	22.06	15.68	7	7
332021	Fire Inspectors and Investigators	963	1,154	191	2.48	48	21.11	15.47	8	6
119061	Funeral Directors	1,180	1,357	177	1.88	42	23.53	14.87	6	6
292054	Respiratory Therapy Technicians	1,589	2,127	538	4.23	105	16.80	14.54	7	6
299010	Occupational Health & Safety Specialists & Technicians	1,443	1,629	186	1.61	59	23.92	14.53	5	7
292091	Orthotists and Prosthetists	541	683	142	3.28	31	28.15	14.49	5	6
173027	Mechanical Engineering Technicians	1,644	1,876	232	1.76	61	19.54	13.77	6	6
173026	Industrial Engineering Technicians	2,785	2,975	190	0.85	79	20.37	13.76	6	6
333012	Correctional Officers and Jailers	32,075	38,061	5,986	2.33	1,491	16.18	13.73	10	7
173013	Mechanical Drafters	2,208	2,440	232	1.31	94	20.45	13.58	7	7
518091	Chemical Plant and System Operators	1,197	1,115	(82)	-0.86	37	18.70	13.48	9	7
131011	Agents and Business Managers of Artists & Entertainers	963	1,112	149	1.93	37	37.50	13.47	4	6
194092	Forensic Science Technicians	1,191	1,285	94	0.99	54	18.85	13.05	6	6

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
518092	Gas Plant Operators	220	225	5	0.28	7	19.87	12.95	9	7
514012	Numerical Tool and Process Control Programmers	377	411	34	1.13	17	17.99	12.54	9	7
152091	Mathematical Technicians	210	221	11	0.65	4	15.54	12.46	6	6
292061	Licensed Practical and Licensed Vocational Nurses	46,765	56,084	9,319	2.49	2,305	15.72	12.45	7	7
271022	Fashion Designers	452	497	45	1.24	10	25.53	12.14	5	6
173024	Electro-Mechanical Technicians	1,806	2,053	247	1.71	66	18.01	11.97	6	6
492021	Radio Mechanics	364	309	(55)	-1.89	7	17.90	11.97	7	7
519011	Chemical Equipment Operators and Tenders	1,602	1,779	177	1.38	59	17.47	11.93	10	7
452011	Agricultural Inspectors	689	695	6	0.11	18	15.43	11.91	8	7
518021	Stationary Engineers and Boiler Operators	1,358	1,408	50	0.46	44	17.44	11.90	9	7
518031	Water and Liquid Waste Treatment Plant Operators	6,112	7,086	974	1.99	307	16.51	11.83	9	7
292055	Surgical Technologists	3,995	5,109	1,114	3.49	236	14.82	11.62	7	7
472111	Electricians	40,017	49,945	9,928	3.10	1,943	16.22	11.62	9	7
232093	Title Examiners, Abstractors, and Searchers	3,548	3,822	274	0.97	66	17.75	11.61	10	7
436011	Executive Secretaries and Administrative Assistants	98,907	112,289	13,382	1.69	3,297	16.10	11.60	10	7
493031	Bus and Truck Mechanics and Diesel Engine Specialists	13,966	15,758	1,792	1.60	571	15.99	11.55	7	7
173025	Environmental Engineering Technicians	1,109	1,340	231	2.60	50	16.60	11.46	6	6
211023	Mental Health and Substance Abuse Social Workers	4,327	5,637	1,310	3.78	209	15.79	11.39	3	6
472152	Plumbers, Pipefitters, and Steamfitters	28,924	33,681	4,757	2.06	1,052	16.10	11.29	9	7
292081	Opticians, Dispensing	6,164	7,002	838	1.70	215	16.10	11.05	9	7
472021	Brickmasons and Blockmasons	6,425	7,462	1,037	2.02	244	15.52	11.03	9	7
492093	Electronics Installers & Repairers, Transportation Equip.	1,083	1,287	204	2.35	45	15.67	10.97	7	7
271021	Commercial and Industrial Designers	1,037	1,211	174	2.10	32	22.16	10.96	5	6
499021	Heating, A.C., and Refrigeration Mechanics and Installers	22,868	27,700	4,832	2.64	829	15.27	10.95	9	7
434011	Brokerage Clerks	3,302	3,615	313	1.18	81	14.80	10.84	10	6
472161	Plasterers and Stucco Masons	6,266	7,222	956	1.91	232	15.64	10.76	9	7
273020	News Analysts, Reporters and Correspondents	3,849	3,953	104	0.34	137	22.96	10.73	9	6
451011	First-Line Superv. of Farming, Fishing, & Forestry Workers	6,601	6,831	230	0.44	79	16.73	10.68	10	6
332011	Fire Fighters	16,771	18,780	2,009	1.50	672	17.67	10.65	9	7

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Occupation		Employment		Change		Average Annual Openings	2003 Wage		BLS Training Code	FL DOE Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
272032	Choreographers	1,339	1,709	370	3.45	70	15.88	10.64	8	7
512011	Aircraft Structure, Surfaces, and Systems Assemblers	1,416	1,445	29	0.26	40	14.51	10.61	9	7
371012	First-Line Superv. of Landscaping and Groundskeeping	14,845	15,946	1,101	0.93	217	16.48	10.52	8	7
519081	Dental Laboratory Technicians	3,901	4,147	246	0.79	135	16.45	10.51	9	7
493051	Motorboat Mechanics	3,518	3,796	278	0.99	122	15.66	10.50	9	7
492092	Electric Motor, Power Tool, and Related Repairers	2,219	2,480	261	1.47	82	14.78	10.41	7	7
492011	Computer, ATM, and Office Machine Repairers	8,914	10,146	1,232	1.73	247	15.42	10.40	7	7
492098	Security and Fire Alarm Systems Installers	2,922	3,546	624	2.67	130	15.42	10.40	7	7
435031	Police, Fire, and Ambulance Dispatchers	5,635	6,349	714	1.58	179	13.82	10.39	10	7
439031	Desktop Publishers	1,742	2,612	870	6.24	136	15.12	10.39	7	7
351011	Chefs and Head Cooks	7,501	7,779	278	0.46	264	17.30	10.38	7	6
271013	Fine Artists, Including Painters, Sculptors, & Illustrators	1,399	1,579	180	1.61	50	23.23	10.34	5	6
292031	Cardiovascular Technologists and Technicians	2,937	3,917	980	4.17	182	17.32	10.31	6	6
472211	Sheet Metal Workers	11,104	13,254	2,150	2.42	488	14.81	10.28	10	7
499052	Telecommunications Line Installers and Repairers	11,702	14,419	2,717	2.90	549	16.95	10.28	9	7
472073	Operating Engineers/Construction Equipment Operators	21,093	23,091	1,998	1.18	699	14.10	10.26	10	7
434131	Loan Interviewers and Clerks	12,437	10,815	(1,622)	-1.63	87	14.03	10.23	11	7
514041	Machinists	10,233	11,423	1,190	1.45	353	15.05	10.22	9	7
232092	Law Clerks	1,684	1,846	162	1.20	35	15.54	10.21	5	6
499097	Signal and Track Switch Repairers	227	215	(12)	-0.66	5	15.00	10.13	9	7
533032	Truck Drivers, Heavy and Tractor-Trailer	75,251	86,816	11,565	1.92	2,440	15.32	10.12	10	7
472081	Drywall and Ceiling Tile Installers	9,369	10,878	1,509	2.01	275	14.05	10.03	10	7
472044	Tile and Marble Setters	4,980	5,626	646	1.62	162	16.37	10.00	9	7
536041	Traffic Technicians	153	172	19	1.55	8	14.52	9.98	11	6
271027	Set and Exhibit Designers	653	763	110	2.11	20	14.77	9.93	5	6
273091	Interpreters and Translators	1,001	1,178	177	2.21	41	16.88	9.92	9	6
472031	Carpenters	60,276	69,049	8,773	1.82	2,079	14.39	9.91	9	7
474091	Segmental Pavers	68	84	16	2.94	3	10.18	9.86	11	7
319094	Medical Transcriptionists	4,860	6,140	1,280	3.29	280	13.18	9.74	7	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
274014	Sound Engineering Technicians	718	860	142	2.47	38	16.31	9.71	7	6
274032	Film and Video Editors	903	1,125	222	3.07	45	17.33	9.63	5	6
532022	Airfield Operations Specialists	261	307	46	2.20	16	15.57	9.61	11	7
292012	Medical and Clinical Laboratory Technicians	8,335	9,851	1,516	2.27	376	14.20	9.57	6	7
472181	Roofers	12,478	14,333	1,855	1.86	506	13.44	9.56	10	7
514121	Welders, Cutters, Solderers, and Brazers	18,700	23,065	4,365	2.92	1,040	13.57	9.54	7	7
319091	Dental Assistants	15,382	20,024	4,642	3.77	835	12.48	9.52	10	7
493041	Farm Equipment Mechanics	1,800	1,882	82	0.57	56	14.48	9.51	7	7
493053	Outdoor Power Equipment and Small Engine Mechanics	2,577	2,715	138	0.67	81	13.25	9.49	10	7
232091	Court Reporters	900	1,131	231	3.21	37	18.33	9.39	7	7
472051	Cement Masons and Concrete Finishers	11,240	12,762	1,522	1.69	283	13.72	9.38	9	7
472141	Painters, Construction and Maintenance	30,313	34,447	4,134	1.70	1,033	13.22	9.37	10	7
419022	Real Estate Sales Agents	35,693	39,120	3,427	1.20	1,032	20.21	9.27	7	7
493021	Automotive Body and Related Repairers	9,835	11,595	1,760	2.24	452	16.63	9.23	9	7
436013	Medical Secretaries	24,148	28,795	4,647	2.41	972	11.60	9.22	7	7
319092	Medical Assistants	31,325	44,011	12,686	5.06	2,332	11.36	9.21	10	7
433031	Bookkeeping, Accounting, and Auditing Clerks	128,237	140,085	11,848	1.15	3,858	12.98	9.16	10	7
371011	First-Line Superv. of Housekeeping & Janitorial Workers	14,175	16,625	2,450	2.16	675	13.34	9.13	8	7
292041	Emergency Medical Technicians and Paramedics	8,571	10,350	1,779	2.59	428	12.92	9.12	7	7
492096	Electronics Installers & Repairers, Motor Vehicles	510	598	88	2.16	22	12.57	9.12	7	7
493023	Automotive Service Technicians and Mechanics	53,355	63,817	10,462	2.45	2,504	15.60	9.10	7	7
173031	Surveying and Mapping Technicians	7,562	8,827	1,265	2.09	393	13.11	9.09	10	6
434051	Customer Service Representatives	141,508	180,708	39,200	3.46	6,017	12.62	9.07	10	7
311013	Psychiatric Aides	3,865	4,254	389	1.26	97	11.42	9.06	11	7
254031	Library Technicians	4,594	5,422	828	2.25	298	11.64	9.03	11	6
474041	Hazardous Materials Removal Workers	1,528	1,823	295	2.41	81	13.54	9.03	10	7
472053	Terrazzo Workers and Finishers	244	288	44	2.25	8	13.67	9.00	9	7
413041	Travel Agents	12,309	12,415	106	0.11	311	13.50	8.96	7	7
519193	Cooling and Freezing Equipment Operators and Tenders	345	337	(8)	-0.29	6	13.84	8.94	10	7

Source: Florida Agency for Workforce Innovation, Labor Market Statistics
Florida Employment Forecast

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Entry Wage
Table 1b

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
351012	First-Line Superv. of Food Preparation & Serving Workers	46,473	51,334	4,861	1.31	1,750	13.39	8.91	8	7
312012	Occupational Therapist Aides	323	432	109	4.22	22	11.39	8.87	11	6
472130	Insulation Workers	3,857	4,421	564	1.83	183	14.68	8.85	10	7
493052	Motorcycle Mechanics	861	928	67	0.97	30	13.86	8.84	9	7
512091	Fiberglass Laminators and Fabricators	3,175	3,383	208	0.82	81	12.03	8.81	10	7
292071	Medical Records and Health Information Technicians	11,554	16,068	4,514	4.88	797	12.05	8.80	6	7
373012	Pesticide Handlers, Sprayers, & Applicators, Vegetation	3,266	3,504	238	0.91	110	11.86	8.75	10	6
274011	Audio and Video Equipment Technicians	2,292	2,706	414	2.26	117	15.03	8.68	9	7
499031	Home Appliance Repairers	2,602	2,866	264	1.27	85	13.71	8.68	9	7
499042	Maintenance and Repair Workers, General	73,118	78,668	5,550	0.95	1,626	12.86	8.66	9	7
492097	Home Entertainment Electronics Installers and Repairers	2,502	2,405	(97)	-0.48	47	14.35	8.61	7	7
272041	Music Directors and Composers	4,644	5,628	984	2.65	206	18.21	8.55	4	6
436014	Secretaries, Except Legal, Medical, and Executive	108,356	112,324	3,968	0.46	2,321	11.91	8.50	10	7
274031	Camera Operators, Television, Video, and Motion Picture	1,456	1,791	335	2.88	69	15.18	8.49	10	7
433071	Tellers	25,351	24,608	(743)	-0.37	1,227	10.26	8.37	11	7
473012	Helpers - Carpenters	5,791	6,555	764	1.65	373	10.93	8.35	11	7
274012	Broadcast Technicians	3,198	3,832	634	2.48	170	15.21	8.32	7	7
472121	Glaziers	4,744	5,766	1,022	2.69	211	12.98	8.30	9	7
292053	Psychiatric Technicians	3,199	3,767	568	2.22	150	10.66	8.29	7	7
517011	Cabinetmakers and Bench Carpenters	8,934	9,918	984	1.38	399	11.80	8.24	9	7
512031	Engine and Other Machine Assemblers	1,313	1,643	330	3.14	66	12.13	8.19	11	7
516093	Upholsterers	2,206	1,968	(238)	-1.35	75	12.50	8.19	9	7
515021	Job Printers	4,895	5,761	866	2.21	226	12.14	8.18	9	7
312022	Physical Therapist Aides	1,581	2,122	541	4.28	110	10.67	8.05	11	6
132082	Tax Preparers	6,085	7,141	1,056	2.17	248	12.10	8.01	10	6
259041	Teacher Assistants	41,423	50,307	8,884	2.68	1,930	10.60	7.98	11	7
274013	Radio Operators	171	176	5	0.37	6	13.66	7.97	9	6
292056	Veterinary Technologists and Technicians	5,483	6,651	1,168	2.66	280	10.54	7.92	6	6
311012	Nursing Aides, Orderlies, and Attendants	75,874	95,348	19,474	3.21	3,340	9.55	7.78	11	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
319093	Medical Equipment Preparers	2,796	3,380	584	2.61	143	9.63	7.77	11	7
533033	Truck Drivers, Light or Delivery Services	62,887	74,051	11,164	2.22	2,221	12.35	7.71	11	7
513011	Bakers	7,463	8,998	1,535	2.57	304	10.17	7.69	9	6
292052	Pharmacy Technicians	13,733	18,310	4,577	4.17	898	10.25	7.64	10	7
271023	Floral Designers	4,220	4,683	463	1.37	99	10.22	7.61	10	6
211093	Social and Human Service Assistants	11,619	16,361	4,742	5.10	748	10.92	7.50	10	7
512092	Team Assemblers	40,505	43,015	2,510	0.77	1,012	10.11	7.39	10	6
311011	Home Health Aides	27,854	37,347	9,493	4.26	1,512	8.85	7.28	11	7
512022	Electrical and Electronic Equipment Assemblers	11,850	11,378	(472)	-0.50	307	9.70	7.07	11	7
274021	Photographers	7,999	8,839	840	1.31	260	12.54	7.06	9	7
292051	Dietetic Technicians	1,474	1,900	426	3.61	89	11.08	7.04	10	6
516052	Tailors, Dressmakers, and Custom Sewers	3,419	3,513	94	0.34	87	11.23	7.03	8	7
373011	Landscaping and Groundskeeping Workers	99,579	123,477	23,898	3.00	5,334	9.49	6.99	11	6
513023	Slaughterers and Meat Packers	1,040	969	(71)	-0.85	26	9.05	6.95	10	7
533022	Bus Drivers, School	21,529	23,211	1,682	0.98	747	10.12	6.86	11	7
319011	Massage Therapists	3,266	3,952	686	2.63	156	13.06	6.84	7	7
394021	Funeral Attendants	1,791	2,249	458	3.20	96	8.65	6.51	11	6
272031	Dancers	891	989	98	1.37	29	11.67	6.46	9	7
399032	Recreation Workers	19,570	23,031	3,461	2.21	820	9.44	6.40	5	6
399011	Child Care Workers	52,447	62,490	10,043	2.39	2,949	7.48	6.16	11	7
394011	Embalmers	374	403	29	0.97	12	13.32	6.14	7	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Table 1c

Proposed HSHW Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$16.85/hour and Entry Wage of \$10.74/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code

Previous HSHW Occupations Screened Out by Proposed Criteria

299010	Occupational Health & Safety Specialists & Technicians	1,443	1,629	186	1.61	59	23.92	14.53	5	7
273020	News Analysts, Reporters and Correspondents	3,849	3,953	104	0.34	137	22.96	10.73	9	6
332021	Fire Inspectors and Investigators	963	1,154	191	2.48	48	21.11	15.47	8	6
499052	Telecommunications Line Installers and Repairers	11,702	14,419	2,717	2.90	549	16.95	10.28	9	7
292054	Respiratory Therapy Technicians	1,589	2,127	538	4.23	105	16.80	14.54	7	6
173025	Environmental Engineering Technicians	1,109	1,340	231	2.60	50	16.60	11.46	6	6
518031	Water and Liquid Waste Treatment Plant Operators	6,112	7,086	974	1.99	307	16.51	11.83	9	7
472111	Electricians	40,017	49,945	9,928	3.10	1,943	16.22	11.62	9	7
292081	Opticians, Dispensing	6,164	7,002	838	1.70	215	16.10	11.05	9	7
436011	Executive Secretaries and Administrative Assistants	98,907	112,289	13,382	1.69	3,297	16.10	11.60	10	7
472152	Plumbers, Pipefitters, and Steamfitters	28,924	33,681	4,757	2.06	1,052	16.10	11.29	9	7
472161	Plasterers and Stucco Masons	6,266	7,222	956	1.91	232	15.64	10.76	9	7

2004 Workforce Estimating Conference Potential Screening Criteria

ITA Tables

**2004 Workforce Estimating Conference Potential Screening Criteria
ITA Summary Table
Associate's Degree or Vocational Training**

Table	Education Level	Occupational Characteristic	Criteria	Occupational Count		
				Pass	Fail	Total
	Associate's/Vocational	Training Code	FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)	248	529	777
1a	Associate's/Vocational	Openings/Growth Wage	50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour (sorted by Mean Wage)	138	110	248
1b	Associate's/Vocational	Openings/Growth Wage	50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour (sorted by Entry Wage)	138	110	248
1c	Associate's/Vocational		Previous ITA occupations screened out by criteria in 1a and 1b			

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
Table 1a

Proposed ITA Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
272021	Athletes and Sports Competitors	2,004	2,338	334	2.08	80	81.29	18.39	9	6
532011	Airline Pilots, Copilots, and Flight Engineers	4,903	5,075	172	0.44	133	61.52	21.35	5	6
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	6
532021	Air Traffic Controllers	2,125	2,328	203	1.19	113	42.08	24.01	9	7
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	6
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	6
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	6
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	6
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	6
419021	Real Estate Brokers	16,467	18,256	1,789	1.36	501	37.65	13.76	8	6
119111	Medical and Health Services Managers	14,252	18,542	4,290	3.76	763	36.07	21.28	4	6
113051	Industrial Production Managers	6,224	6,534	310	0.62	139	35.26	20.76	5	6
132052	Personal Financial Advisors	6,922	9,016	2,094	3.78	336	34.82	13.81	5	6
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	6
119021	Construction Managers	22,184	25,445	3,261	1.84	756	34.66	19.66	5	6
113071	Transportation, Storage, and Distribution Managers	6,337	7,334	997	1.97	224	34.09	20.10	8	7
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	6
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	6
151021	Computer Programmers	22,296	24,018	1,722	0.97	674	30.58	17.94	5	7
331012	First-Line Supervisors of Police and Detectives	5,849	6,507	658	1.41	235	29.74	20.67	8	6
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	6
292021	Dental Hygienists	7,484	9,812	2,328	3.89	391	29.20	18.67	6	6
271011	Art Directors	1,718	2,008	290	2.11	70	28.94	17.28	4	6
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	6
331021	First-Line Superv. of Fire Fighting and Prevention Workers	4,035	4,356	321	0.99	166	28.75	19.37	8	7
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	6
272012	Producers and Directors	3,881	4,802	921	2.97	185	28.28	13.68	4	6
132051	Financial Analysts	6,175	7,655	1,480	3.00	264	27.38	16.57	5	6
151071	Network and Computer Systems Administrators	11,496	16,627	5,131	5.58	685	26.87	18.37	5	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
Table 1a

Proposed ITA Criteria:

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- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
151061	Database Administrators	5,888	7,728	1,840	3.91	253	26.67	15.24	5	6
132041	Credit Analysts	6,333	6,681	348	0.69	168	26.49	15.35	5	6
132031	Budget Analysts	3,303	3,795	492	1.86	125	25.22	18.02	5	6
292033	Nuclear Medicine Technologists	1,069	1,303	234	2.74	51	24.91	19.48	6	6
333021	Detectives and Criminal Investigators	7,063	8,007	944	1.67	271	24.50	16.98	8	6
119151	Social and Community Service Managers	6,052	7,165	1,113	2.30	248	24.49	15.60	5	6
413021	Insurance Sales Agents	42,257	44,251	1,994	0.59	1,313	24.09	10.87	5	7
119011	Farm, Ranch, and Other Agricultural Managers	13,918	13,608	(310)	-0.28	161	23.80	14.27	4	6
396031	Flight Attendants	5,311	5,944	633	1.49	257	23.74	15.26	9	7
535021	Captains, Mates, and Pilots of Water Vessels	2,950	3,100	150	0.64	118	23.59	10.97	8	7
491011	First-Line Superv. of Mechanics, Installers, and Repairers	25,836	30,454	4,618	2.23	1,219	23.39	15.25	8	7
132053	Insurance Underwriters	4,648	5,096	448	1.20	125	23.13	14.18	5	6
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	6	6
292032	Diagnostic Medical Sonographers	2,333	2,907	574	3.08	120	23.05	17.86	6	6
273020	News Analysts, Reporters and Correspondents	3,849	3,953	104	0.34	137	22.96	10.73	9	6
413011	Advertising Sales Agents	10,661	13,071	2,410	2.83	505	22.75	10.79	10	7
259031	Instructional Coordinators	3,446	4,200	754	2.74	142	22.51	14.53	3	6
119141	Property, Real Estate & Community Association Managers	21,337	24,063	2,726	1.60	677	22.36	11.16	5	6
119051	Food Service Managers	21,992	24,444	2,452	1.39	559	22.34	14.16	8	7
271025	Interior Designers	7,533	8,548	1,015	1.68	200	22.19	13.40	5	6
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	8,284	8,890	606	0.91	283	21.68	14.27	9	7
192041	Environmental Scientists & Specialists, Including Health	5,340	6,063	723	1.69	258	21.56	14.84	5	6
131031	Claims Adjusters, Examiners, and Investigators	11,710	14,290	2,580	2.75	446	21.52	13.98	9	7
273042	Technical Writers	2,090	2,445	355	2.12	105	21.42	14.56	5	6
271014	Multi-Media Artists and Animators	4,063	4,832	769	2.37	176	20.88	13.51	5	6
499051	Electrical Power-Line Installers and Repairers	5,122	5,766	644	1.57	242	20.85	14.49	9	7
534011	Locomotive Engineers	936	1,102	166	2.22	61	20.79	13.55	11	7
493011	Aircraft Mechanics and Service Technicians	10,321	11,576	1,255	1.52	369	20.56	14.27	7	7
333051	Police and Sheriff's Patrol Officers	38,874	46,662	7,788	2.50	1,752	20.55	14.78	9	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Sorted by Mean Wage
Table 1a

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
292011	Medical and Clinical Laboratory Technologists	8,846	10,506	1,660	2.35	406	20.54	16.15	5	6
474011	Construction and Building Inspectors	5,274	5,840	566	1.34	187	20.54	15.00	8	7
419022	Real Estate Sales Agents	35,693	39,120	3,427	1.20	1,032	20.21	9.27	7	7
173023	Electrical and Electronic Engineering Technicians	16,242	17,094	852	0.66	431	20.12	14.09	6	6
312011	Occupational Therapist Assistants	869	1,176	307	4.42	62	19.86	15.53	6	6
232011	Paralegals and Legal Assistants	19,909	23,759	3,850	2.42	597	19.70	13.94	6	6
492022	Telecommunications Equipment Installers and Repairers	9,196	9,438	242	0.33	202	19.54	13.81	7	7
291031	Dietitians and Nutritionists	2,579	2,869	290	1.41	104	19.39	12.85	5	7
431011	First-Line Superv. of Office and Admin. Support Workers	84,923	93,257	8,334	1.23	2,643	19.39	12.50	8	6
291126	Respiratory Therapists	5,953	7,956	2,003	4.21	387	19.34	15.63	6	6
273031	Public Relations Specialists	11,120	14,298	3,178	3.57	573	19.10	12.29	5	6
251194	Vocational Education Teachers, Postsecondary	4,556	5,764	1,208	3.31	267	19.08	11.98	8	7
173012	Electrical and Electronics Drafters	1,556	1,866	310	2.49	84	18.94	13.15	7	7
292034	Radiologic Technologists and Technicians	12,503	15,510	3,007	3.01	634	18.75	13.98	6	6
492094	Electronics Repairers, Commercial and Industrial Equip.	4,175	4,791	616	1.84	158	18.72	12.38	7	7
312021	Physical Therapist Assistants	3,053	4,131	1,078	4.41	217	18.60	14.23	6	6
411011	First-Line Supervisors of Retail Sales Workers	125,920	141,640	15,720	1.56	3,725	18.55	10.77	8	7
173022	Civil Engineering Technicians	6,455	6,686	231	0.45	158	18.43	12.71	6	6
173011	Architectural and Civil Drafters	10,472	11,724	1,252	1.49	464	18.41	13.26	7	7
499062	Medical Equipment Repairers	1,566	1,880	314	2.51	76	18.35	11.71	10	6
119031	Education Administrators, Preschool and Child Care	3,314	4,061	747	2.82	175	18.17	11.91	4	6
436012	Legal Secretaries	15,137	16,658	1,521	1.26	441	17.84	13.78	7	7
472221	Structural Iron and Steel Workers	4,368	5,203	835	2.39	149	17.82	12.50	9	7
332011	Fire Fighters	16,771	18,780	2,009	1.50	672	17.67	10.65	9	7
151041	Computer Support Specialists	28,415	38,038	9,623	4.23	1,313	17.39	10.75	6	7
292031	Cardiovascular Technologists and Technicians	2,937	3,917	980	4.17	182	17.32	10.31	6	6
351011	Chefs and Head Cooks	7,501	7,779	278	0.46	264	17.30	10.38	7	6
271024	Graphic Designers	14,118	17,208	3,090	2.74	520	17.29	11.01	5	6
499041	Industrial Machinery Mechanics	6,911	7,543	632	1.14	261	17.10	12.03	9	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
499052	Telecommunications Line Installers and Repairers	11,702	14,419	2,717	2.90	549	16.95	10.28	9	7
211092	Probation Officers and Correctional Treatment Specialists	6,436	7,170	734	1.43	185	16.92	13.50	5	7
194091	Environmental Science Technicians, Including Health	2,513	2,953	440	2.19	143	16.85	11.39	6	6
292054	Respiratory Therapy Technicians	1,589	2,127	538	4.23	105	16.80	14.54	7	6
493021	Automotive Body and Related Repairers	9,835	11,595	1,760	2.24	452	16.63	9.23	9	7
173025	Environmental Engineering Technicians	1,109	1,340	231	2.60	50	16.60	11.46	6	6
518031	Water and Liquid Waste Treatment Plant Operators	6,112	7,086	974	1.99	307	16.51	11.83	9	7
371012	First-Line Superv. of Landscaping and Groundskeeping	14,845	15,946	1,101	0.93	217	16.48	10.52	8	7
519081	Dental Laboratory Technicians	3,901	4,147	246	0.79	135	16.45	10.51	9	7
472044	Tile and Marble Setters	4,980	5,626	646	1.62	162	16.37	10.00	9	7
472111	Electricians	40,017	49,945	9,928	3.10	1,943	16.22	11.62	9	7
333012	Correctional Officers and Jailers	32,075	38,061	5,986	2.33	1,491	16.18	13.73	10	7
436011	Executive Secretaries and Administrative Assistants	98,907	112,289	13,382	1.69	3,297	16.10	11.60	10	7
472152	Plumbers, Pipefitters, and Steamfitters	28,924	33,681	4,757	2.06	1,052	16.10	11.29	9	7
292081	Opticians, Dispensing	6,164	7,002	838	1.70	215	16.10	11.05	9	7
493031	Bus and Truck Mechanics and Diesel Engine Specialists	13,966	15,758	1,792	1.60	571	15.99	11.55	7	7
272032	Choreographers	1,339	1,709	370	3.45	70	15.88	10.64	8	7
211023	Mental Health and Substance Abuse Social Workers	4,327	5,637	1,310	3.78	209	15.79	11.39	3	6
292061	Licensed Practical and Licensed Vocational Nurses	46,765	56,084	9,319	2.49	2,305	15.72	12.45	7	7
493051	Motorboat Mechanics	3,518	3,796	278	0.99	122	15.66	10.50	9	7
472161	Plasterers and Stucco Masons	6,266	7,222	956	1.91	232	15.64	10.76	9	7
493023	Automotive Service Technicians and Mechanics	53,355	63,817	10,462	2.45	2,504	15.60	9.10	7	7
472021	Brickmasons and Blockmasons	6,425	7,462	1,037	2.02	244	15.52	11.03	9	7
492011	Computer, ATM, and Office Machine Repairers	8,914	10,146	1,232	1.73	247	15.42	10.40	7	7
492098	Security and Fire Alarm Systems Installers	2,922	3,546	624	2.67	130	15.42	10.40	7	7
533032	Truck Drivers, Heavy and Tractor-Trailer	75,251	86,816	11,565	1.92	2,440	15.32	10.12	10	7
499021	Heating, A.C., and Refrigeration Mechanics and Installers	22,868	27,700	4,832	2.64	829	15.27	10.95	9	7
439031	Desktop Publishers	1,742	2,612	870	6.24	136	15.12	10.39	7	7
514041	Machinists	10,233	11,423	1,190	1.45	353	15.05	10.22	9	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
292055	Surgical Technologists	3,995	5,109	1,114	3.49	236	14.82	11.62	7	7
472211	Sheet Metal Workers	11,104	13,254	2,150	2.42	488	14.81	10.28	10	7
472031	Carpenters	60,276	69,049	8,773	1.82	2,079	14.39	9.91	9	7
292012	Medical and Clinical Laboratory Technicians	8,335	9,851	1,516	2.27	376	14.20	9.57	6	7
472073	Operating Engineers/Construction Equipment Operators	21,093	23,091	1,998	1.18	699	14.10	10.26	10	7
472081	Drywall and Ceiling Tile Installers	9,369	10,878	1,509	2.01	275	14.05	10.03	10	7
435031	Police, Fire, and Ambulance Dispatchers	5,635	6,349	714	1.58	179	13.82	10.39	10	7
472051	Cement Masons and Concrete Finishers	11,240	12,762	1,522	1.69	283	13.72	9.38	9	7
514121	Welders, Cutters, Solderers, and Brazers	18,700	23,065	4,365	2.92	1,040	13.57	9.54	7	7
474041	Hazardous Materials Removal Workers	1,528	1,823	295	2.41	81	13.54	9.03	10	7
472181	Roofers	12,478	14,333	1,855	1.86	506	13.44	9.56	10	7
371011	First-Line Superv. of Housekeeping & Janitorial Workers	14,175	16,625	2,450	2.16	675	13.34	9.13	8	7
472141	Painters, Construction and Maintenance	30,313	34,447	4,134	1.70	1,033	13.22	9.37	10	7
319094	Medical Transcriptionists	4,860	6,140	1,280	3.29	280	13.18	9.74	7	7
173031	Surveying and Mapping Technicians	7,562	8,827	1,265	2.09	393	13.11	9.09	10	6
433031	Bookkeeping, Accounting, and Auditing Clerks	128,237	140,085	11,848	1.15	3,858	12.98	9.16	10	7
292041	Emergency Medical Technicians and Paramedics	8,571	10,350	1,779	2.59	428	12.92	9.12	7	7
434051	Customer Service Representatives	141,508	180,708	39,200	3.46	6,017	12.62	9.07	10	7
319091	Dental Assistants	15,382	20,024	4,642	3.77	835	12.48	9.52	10	7
254031	Library Technicians	4,594	5,422	828	2.25	298	11.64	9.03	11	6
436013	Medical Secretaries	24,148	28,795	4,647	2.41	972	11.60	9.22	7	7
319092	Medical Assistants	31,325	44,011	12,686	5.06	2,332	11.36	9.21	10	7
<u>Occupations Failing at Least 1 of 3 Criteria</u>										
151011	Computer and Information Scientists, Research	958	1,172	214	2.79	35	38.02	24.50	2	7
131011	Agents and Business Managers of Artists & Entertainers	963	1,112	149	1.93	37	37.50	13.47	4	6
518011	Nuclear Power Reactor Operators	142	135	(7)	-0.62	4	30.81	25.44	9	7
119131	Postmasters and Mail Superintendents	425	464	39	1.15	12	29.03	23.14	8	6

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
132061	Financial Examiners	1,013	1,211	198	2.44	43	28.19	17.46	5	7
292091	Orthotists and Prosthetists	541	683	142	3.28	31	28.15	14.49	5	6
532012	Commercial Pilots	1,028	1,228	200	2.43	47	27.61	16.70	7	7
535031	Ship Engineers	564	633	69	1.53	27	26.82	19.24	7	7
271022	Fashion Designers	452	497	45	1.24	10	25.53	12.14	5	6
518012	Power Distributors and Dispatchers	400	386	(14)	-0.44	12	25.04	16.85	9	7
291124	Radiation Therapists	887	1,064	177	2.49	39	24.85	19.33	6	6
173021	Aerospace Engineering and Operations Technicians	605	600	(5)	-0.10	12	24.06	17.87	6	6
299010	Occupational Health & Safety Specialists & Technicians	1,443	1,629	186	1.61	59	23.92	14.53	5	7
119061	Funeral Directors	1,180	1,357	177	1.88	42	23.53	14.87	6	6
271013	Fine Artists, Including Painters, Sculptors, & Illustrators	1,399	1,579	180	1.61	50	23.23	10.34	5	6
518013	Power Plant Operators	2,412	2,480	68	0.35	80	23.18	17.33	9	7
271021	Commercial and Industrial Designers	1,037	1,211	174	2.10	32	22.16	10.96	5	6
492095	Electrical Repairers, Powerhouse, Substation, and Relay	657	656	(1)	-0.02	13	22.06	15.68	7	7
333052	Transit and Railroad Police	39	41	2	0.64	1	21.71	16.17	9	7
332022	Forest Fire Inspectors and Prevention Specialists	18	20	2	1.39	1	21.69	18.10	8	6
332021	Fire Inspectors and Investigators	963	1,154	191	2.48	48	21.11	15.47	8	6
492091	Avionics Technicians	1,091	1,173	82	0.94	32	20.61	16.03	7	7
173013	Mechanical Drafters	2,208	2,440	232	1.31	94	20.45	13.58	7	7
173026	Industrial Engineering Technicians	2,785	2,975	190	0.85	79	20.37	13.76	6	6
534031	Railroad Conductors and Yardmasters	1,555	1,529	(26)	-0.21	70	19.91	16.31	8	7
518092	Gas Plant Operators	220	225	5	0.28	7	19.87	12.95	9	7
173027	Mechanical Engineering Technicians	1,644	1,876	232	1.76	61	19.54	13.77	6	6
194092	Forensic Science Technicians	1,191	1,285	94	0.99	54	18.85	13.05	6	6
518091	Chemical Plant and System Operators	1,197	1,115	(82)	-0.86	37	18.70	13.48	9	7
232091	Court Reporters	900	1,131	231	3.21	37	18.33	9.39	7	7
272041	Music Directors and Composers	4,644	5,628	984	2.65	206	18.21	8.55	4	6
173024	Electro-Mechanical Technicians	1,806	2,053	247	1.71	66	18.01	11.97	6	6
514012	Numerical Tool and Process Control Programmers	377	411	34	1.13	17	17.99	12.54	9	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
492021	Radio Mechanics	364	309	(55)	-1.89	7	17.90	11.97	7	7
232093	Title Examiners, Abstractors, and Searchers	3,548	3,822	274	0.97	66	17.75	11.61	10	7
519011	Chemical Equipment Operators and Tenders	1,602	1,779	177	1.38	59	17.47	11.93	10	7
518021	Stationary Engineers and Boiler Operators	1,358	1,408	50	0.46	44	17.44	11.90	9	7
274032	Film and Video Editors	903	1,125	222	3.07	45	17.33	9.63	5	6
273091	Interpreters and Translators	1,001	1,178	177	2.21	41	16.88	9.92	9	6
451011	First-Line Superv. of Farming, Fishing, & Forestry Workers	6,601	6,831	230	0.44	79	16.73	10.68	10	6
274014	Sound Engineering Technicians	718	860	142	2.47	38	16.31	9.71	7	6
492093	Electronics Installers & Repairers, Transportation Equip.	1,083	1,287	204	2.35	45	15.67	10.97	7	7
532022	Airfield Operations Specialists	261	307	46	2.20	16	15.57	9.61	11	7
232092	Law Clerks	1,684	1,846	162	1.20	35	15.54	10.21	5	6
152091	Mathematical Technicians	210	221	11	0.65	4	15.54	12.46	6	6
452011	Agricultural Inspectors	689	695	6	0.11	18	15.43	11.91	8	7
274012	Broadcast Technicians	3,198	3,832	634	2.48	170	15.21	8.32	7	7
274031	Camera Operators, Television, Video, and Motion Picture	1,456	1,791	335	2.88	69	15.18	8.49	10	7
274011	Audio and Video Equipment Technicians	2,292	2,706	414	2.26	117	15.03	8.68	9	7
499097	Signal and Track Switch Repairers	227	215	(12)	-0.66	5	15.00	10.13	9	7
434011	Brokerage Clerks	3,302	3,615	313	1.18	81	14.80	10.84	10	6
492092	Electric Motor, Power Tool, and Related Repairers	2,219	2,480	261	1.47	82	14.78	10.41	7	7
271027	Set and Exhibit Designers	653	763	110	2.11	20	14.77	9.93	5	6
472130	Insulation Workers	3,857	4,421	564	1.83	183	14.68	8.85	10	7
536041	Traffic Technicians	153	172	19	1.55	8	14.52	9.98	11	6
512011	Aircraft Structure, Surfaces, and Systems Assemblers	1,416	1,445	29	0.26	40	14.51	10.61	9	7
493041	Farm Equipment Mechanics	1,800	1,882	82	0.57	56	14.48	9.51	7	7
492097	Home Entertainment Electronics Installers and Repairers	2,502	2,405	(97)	-0.48	47	14.35	8.61	7	7
434131	Loan Interviewers and Clerks	12,437	10,815	(1,622)	-1.63	87	14.03	10.23	11	7
493052	Motorcycle Mechanics	861	928	67	0.97	30	13.86	8.84	9	7
519193	Cooling and Freezing Equipment Operators and Tenders	345	337	(8)	-0.29	6	13.84	8.94	10	7
499031	Home Appliance Repairers	2,602	2,866	264	1.27	85	13.71	8.68	9	7

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		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
472053	Terrazzo Workers and Finishers	244	288	44	2.25	8	13.67	9.00	9	7
274013	Radio Operators	171	176	5	0.37	6	13.66	7.97	9	6
413041	Travel Agents	12,309	12,415	106	0.11	311	13.50	8.96	7	7
351012	First-Line Superv. of Food Preparation & Serving Workers	46,473	51,334	4,861	1.31	1,750	13.39	8.91	8	7
394011	Embalmers	374	403	29	0.97	12	13.32	6.14	7	6
493053	Outdoor Power Equipment and Small Engine Mechanics	2,577	2,715	138	0.67	81	13.25	9.49	10	7
319011	Massage Therapists	3,266	3,952	686	2.63	156	13.06	6.84	7	7
472121	Glaziers	4,744	5,766	1,022	2.69	211	12.98	8.30	9	7
499042	Maintenance and Repair Workers, General	73,118	78,668	5,550	0.95	1,626	12.86	8.66	9	7
492096	Electronics Installers & Repairers, Motor Vehicles	510	598	88	2.16	22	12.57	9.12	7	7
274021	Photographers	7,999	8,839	840	1.31	260	12.54	7.06	9	7
516093	Upholsterers	2,206	1,968	(238)	-1.35	75	12.50	8.19	9	7
533033	Truck Drivers, Light or Delivery Services	62,887	74,051	11,164	2.22	2,221	12.35	7.71	11	7
515021	Job Printers	4,895	5,761	866	2.21	226	12.14	8.18	9	7
512031	Engine and Other Machine Assemblers	1,313	1,643	330	3.14	66	12.13	8.19	11	7
132082	Tax Preparers	6,085	7,141	1,056	2.17	248	12.10	8.01	10	6
292071	Medical Records and Health Information Technicians	11,554	16,068	4,514	4.88	797	12.05	8.80	6	7
512091	Fiberglass Laminators and Fabricators	3,175	3,383	208	0.82	81	12.03	8.81	10	7
436014	Secretaries, Except Legal, Medical, and Executive	108,356	112,324	3,968	0.46	2,321	11.91	8.50	10	7
373012	Pesticide Handlers, Sprayers, & Applicators, Vegetation	3,266	3,504	238	0.91	110	11.86	8.75	10	6
517011	Cabinetmakers and Bench Carpenters	8,934	9,918	984	1.38	399	11.80	8.24	9	7
272031	Dancers	891	989	98	1.37	29	11.67	6.46	9	7
311013	Psychiatric Aides	3,865	4,254	389	1.26	97	11.42	9.06	11	7
312012	Occupational Therapist Aides	323	432	109	4.22	22	11.39	8.87	11	6
516052	Tailors, Dressmakers, and Custom Sewers	3,419	3,513	94	0.34	87	11.23	7.03	8	7
292051	Dietetic Technicians	1,474	1,900	426	3.61	89	11.08	7.04	10	6
473012	Helpers - Carpenters	5,791	6,555	764	1.65	373	10.93	8.35	11	7
211093	Social and Human Service Assistants	11,619	16,361	4,742	5.10	748	10.92	7.50	10	7
312022	Physical Therapist Aides	1,581	2,122	541	4.28	110	10.67	8.05	11	6

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Occupation		Employment		Change		Average Annual Openings	2003 Wage		BLS Training Code	FL DOE Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
292053	Psychiatric Technicians	3,199	3,767	568	2.22	150	10.66	8.29	7	7
259041	Teacher Assistants	41,423	50,307	8,884	2.68	1,930	10.60	7.98	11	7
292056	Veterinary Technologists and Technicians	5,483	6,651	1,168	2.66	280	10.54	7.92	6	6
433071	Tellers	25,351	24,608	(743)	-0.37	1,227	10.26	8.37	11	7
292052	Pharmacy Technicians	13,733	18,310	4,577	4.17	898	10.25	7.64	10	7
271023	Floral Designers	4,220	4,683	463	1.37	99	10.22	7.61	10	6
474091	Segmental Pavers	68	84	16	2.94	3	10.18	9.86	11	7
513011	Bakers	7,463	8,998	1,535	2.57	304	10.17	7.69	9	6
533022	Bus Drivers, School	21,529	23,211	1,682	0.98	747	10.12	6.86	11	7
512092	Team Assemblers	40,505	43,015	2,510	0.77	1,012	10.11	7.39	10	6
512022	Electrical and Electronic Equipment Assemblers	11,850	11,378	(472)	-0.50	307	9.70	7.07	11	7
319093	Medical Equipment Preparers	2,796	3,380	584	2.61	143	9.63	7.77	11	7
311012	Nursing Aides, Orderlies, and Attendants	75,874	95,348	19,474	3.21	3,340	9.55	7.78	11	7
373011	Landscaping and Groundskeeping Workers	99,579	123,477	23,898	3.00	5,334	9.49	6.99	11	6
399032	Recreation Workers	19,570	23,031	3,461	2.21	820	9.44	6.40	5	6
513023	Slaughterers and Meat Packers	1,040	969	(71)	-0.85	26	9.05	6.95	10	7
311011	Home Health Aides	27,854	37,347	9,493	4.26	1,512	8.85	7.28	11	7
394021	Funeral Attendants	1,791	2,249	458	3.20	96	8.65	6.51	11	6
399011	Child Care Workers	52,447	62,490	10,043	2.39	2,949	7.48	6.16	11	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed ITA Criteria:

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	6
532021	Air Traffic Controllers	2,125	2,328	203	1.19	113	42.08	24.01	9	7
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	6
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	6
532011	Airline Pilots, Copilots, and Flight Engineers	4,903	5,075	172	0.44	133	61.52	21.35	5	6
119111	Medical and Health Services Managers	14,252	18,542	4,290	3.76	763	36.07	21.28	4	6
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	6
113051	Industrial Production Managers	6,224	6,534	310	0.62	139	35.26	20.76	5	6
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	6
331012	First-Line Supervisors of Police and Detectives	5,849	6,507	658	1.41	235	29.74	20.67	8	6
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	6
113071	Transportation, Storage, and Distribution Managers	6,337	7,334	997	1.97	224	34.09	20.10	8	7
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	6
119021	Construction Managers	22,184	25,445	3,261	1.84	756	34.66	19.66	5	6
292033	Nuclear Medicine Technologists	1,069	1,303	234	2.74	51	24.91	19.48	6	6
331021	First-Line Superv. of Fire Fighting and Prevention Workers	4,035	4,356	321	0.99	166	28.75	19.37	8	7
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	6
292021	Dental Hygienists	7,484	9,812	2,328	3.89	391	29.20	18.67	6	6
272021	Athletes and Sports Competitors	2,004	2,338	334	2.08	80	81.29	18.39	9	6
151071	Network and Computer Systems Administrators	11,496	16,627	5,131	5.58	685	26.87	18.37	5	7
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	6	6
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	6
132031	Budget Analysts	3,303	3,795	492	1.86	125	25.22	18.02	5	6
151021	Computer Programmers	22,296	24,018	1,722	0.97	674	30.58	17.94	5	7
292032	Diagnostic Medical Sonographers	2,333	2,907	574	3.08	120	23.05	17.86	6	6
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	6
271011	Art Directors	1,718	2,008	290	2.11	70	28.94	17.28	4	6
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	6
333021	Detectives and Criminal Investigators	7,063	8,007	944	1.67	271	24.50	16.98	8	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
132051	Financial Analysts	6,175	7,655	1,480	3.00	264	27.38	16.57	5	6
292011	Medical and Clinical Laboratory Technologists	8,846	10,506	1,660	2.35	406	20.54	16.15	5	6
291126	Respiratory Therapists	5,953	7,956	2,003	4.21	387	19.34	15.63	6	6
119151	Social and Community Service Managers	6,052	7,165	1,113	2.30	248	24.49	15.60	5	6
312011	Occupational Therapist Assistants	869	1,176	307	4.42	62	19.86	15.53	6	6
132041	Credit Analysts	6,333	6,681	348	0.69	168	26.49	15.35	5	6
396031	Flight Attendants	5,311	5,944	633	1.49	257	23.74	15.26	9	7
491011	First-Line Superv. of Mechanics, Installers, and Repairers	25,836	30,454	4,618	2.23	1,219	23.39	15.25	8	7
151061	Database Administrators	5,888	7,728	1,840	3.91	253	26.67	15.24	5	6
474011	Construction and Building Inspectors	5,274	5,840	566	1.34	187	20.54	15.00	8	7
192041	Environmental Scientists & Specialists, Including Health	5,340	6,063	723	1.69	258	21.56	14.84	5	6
333051	Police and Sheriff's Patrol Officers	38,874	46,662	7,788	2.50	1,752	20.55	14.78	9	7
273042	Technical Writers	2,090	2,445	355	2.12	105	21.42	14.56	5	6
292054	Respiratory Therapy Technicians	1,589	2,127	538	4.23	105	16.80	14.54	7	6
259031	Instructional Coordinators	3,446	4,200	754	2.74	142	22.51	14.53	3	6
499051	Electrical Power-Line Installers and Repairers	5,122	5,766	644	1.57	242	20.85	14.49	9	7
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	6
119011	Farm, Ranch, and Other Agricultural Managers	13,918	13,608	(310)	-0.28	161	23.80	14.27	4	6
131041	Compliance Officers, Exc. Safety, Agri, Constr & Transp.	8,284	8,890	606	0.91	283	21.68	14.27	9	7
493011	Aircraft Mechanics and Service Technicians	10,321	11,576	1,255	1.52	369	20.56	14.27	7	7
312021	Physical Therapist Assistants	3,053	4,131	1,078	4.41	217	18.60	14.23	6	6
132053	Insurance Underwriters	4,648	5,096	448	1.20	125	23.13	14.18	5	6
119051	Food Service Managers	21,992	24,444	2,452	1.39	559	22.34	14.16	8	7
173023	Electrical and Electronic Engineering Technicians	16,242	17,094	852	0.66	431	20.12	14.09	6	6
131031	Claims Adjusters, Examiners, and Investigators	11,710	14,290	2,580	2.75	446	21.52	13.98	9	7
292034	Radiologic Technologists and Technicians	12,503	15,510	3,007	3.01	634	18.75	13.98	6	6
232011	Paralegals and Legal Assistants	19,909	23,759	3,850	2.42	597	19.70	13.94	6	6
132052	Personal Financial Advisors	6,922	9,016	2,094	3.78	336	34.82	13.81	5	6
492022	Telecommunications Equipment Installers and Repairers	9,196	9,438	242	0.33	202	19.54	13.81	7	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
436012	Legal Secretaries	15,137	16,658	1,521	1.26	441	17.84	13.78	7	7
419021	Real Estate Brokers	16,467	18,256	1,789	1.36	501	37.65	13.76	8	6
333012	Correctional Officers and Jailers	32,075	38,061	5,986	2.33	1,491	16.18	13.73	10	7
272012	Producers and Directors	3,881	4,802	921	2.97	185	28.28	13.68	4	6
534011	Locomotive Engineers	936	1,102	166	2.22	61	20.79	13.55	11	7
271014	Multi-Media Artists and Animators	4,063	4,832	769	2.37	176	20.88	13.51	5	6
211092	Probation Officers and Correctional Treatment Specialists	6,436	7,170	734	1.43	185	16.92	13.50	5	7
271025	Interior Designers	7,533	8,548	1,015	1.68	200	22.19	13.40	5	6
173011	Architectural and Civil Drafters	10,472	11,724	1,252	1.49	464	18.41	13.26	7	7
173012	Electrical and Electronics Drafters	1,556	1,866	310	2.49	84	18.94	13.15	7	7
291031	Dietitians and Nutritionists	2,579	2,869	290	1.41	104	19.39	12.85	5	7
173022	Civil Engineering Technicians	6,455	6,686	231	0.45	158	18.43	12.71	6	6
431011	First-Line Superv. of Office and Admin. Support Workers	84,923	93,257	8,334	1.23	2,643	19.39	12.50	8	6
472221	Structural Iron and Steel Workers	4,368	5,203	835	2.39	149	17.82	12.50	9	7
292061	Licensed Practical and Licensed Vocational Nurses	46,765	56,084	9,319	2.49	2,305	15.72	12.45	7	7
492094	Electronics Repairers, Commercial and Industrial Equip.	4,175	4,791	616	1.84	158	18.72	12.38	7	7
273031	Public Relations Specialists	11,120	14,298	3,178	3.57	573	19.10	12.29	5	6
499041	Industrial Machinery Mechanics	6,911	7,543	632	1.14	261	17.10	12.03	9	7
251194	Vocational Education Teachers, Postsecondary	4,556	5,764	1,208	3.31	267	19.08	11.98	8	7
119031	Education Administrators, Preschool and Child Care	3,314	4,061	747	2.82	175	18.17	11.91	4	6
518031	Water and Liquid Waste Treatment Plant Operators	6,112	7,086	974	1.99	307	16.51	11.83	9	7
499062	Medical Equipment Repairers	1,566	1,880	314	2.51	76	18.35	11.71	10	6
472111	Electricians	40,017	49,945	9,928	3.10	1,943	16.22	11.62	9	7
292055	Surgical Technologists	3,995	5,109	1,114	3.49	236	14.82	11.62	7	7
436011	Executive Secretaries and Administrative Assistants	98,907	112,289	13,382	1.69	3,297	16.10	11.60	10	7
493031	Bus and Truck Mechanics and Diesel Engine Specialists	13,966	15,758	1,792	1.60	571	15.99	11.55	7	7
173025	Environmental Engineering Technicians	1,109	1,340	231	2.60	50	16.60	11.46	6	6
194091	Environmental Science Technicians, Including Health	2,513	2,953	440	2.19	143	16.85	11.39	6	6
211023	Mental Health and Substance Abuse Social Workers	4,327	5,637	1,310	3.78	209	15.79	11.39	3	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
472152	Plumbers, Pipefitters, and Steamfitters	28,924	33,681	4,757	2.06	1,052	16.10	11.29	9	7
119141	Property, Real Estate & Community Association Managers	21,337	24,063	2,726	1.60	677	22.36	11.16	5	6
292081	Opticians, Dispensing	6,164	7,002	838	1.70	215	16.10	11.05	9	7
472021	Brickmasons and Blockmasons	6,425	7,462	1,037	2.02	244	15.52	11.03	9	7
271024	Graphic Designers	14,118	17,208	3,090	2.74	520	17.29	11.01	5	6
535021	Captains, Mates, and Pilots of Water Vessels	2,950	3,100	150	0.64	118	23.59	10.97	8	7
499021	Heating, A.C., and Refrigeration Mechanics and Installers	22,868	27,700	4,832	2.64	829	15.27	10.95	9	7
413021	Insurance Sales Agents	42,257	44,251	1,994	0.59	1,313	24.09	10.87	5	7
413011	Advertising Sales Agents	10,661	13,071	2,410	2.83	505	22.75	10.79	10	7
411011	First-Line Supervisors of Retail Sales Workers	125,920	141,640	15,720	1.56	3,725	18.55	10.77	8	7
472161	Plasterers and Stucco Masons	6,266	7,222	956	1.91	232	15.64	10.76	9	7
151041	Computer Support Specialists	28,415	38,038	9,623	4.23	1,313	17.39	10.75	6	7
273020	News Analysts, Reporters and Correspondents	3,849	3,953	104	0.34	137	22.96	10.73	9	6
332011	Fire Fighters	16,771	18,780	2,009	1.50	672	17.67	10.65	9	7
272032	Choreographers	1,339	1,709	370	3.45	70	15.88	10.64	8	7
371012	First-Line Superv. of Landscaping and Groundskeeping	14,845	15,946	1,101	0.93	217	16.48	10.52	8	7
519081	Dental Laboratory Technicians	3,901	4,147	246	0.79	135	16.45	10.51	9	7
493051	Motorboat Mechanics	3,518	3,796	278	0.99	122	15.66	10.50	9	7
492011	Computer, ATM, and Office Machine Repairers	8,914	10,146	1,232	1.73	247	15.42	10.40	7	7
492098	Security and Fire Alarm Systems Installers	2,922	3,546	624	2.67	130	15.42	10.40	7	7
439031	Desktop Publishers	1,742	2,612	870	6.24	136	15.12	10.39	7	7
435031	Police, Fire, and Ambulance Dispatchers	5,635	6,349	714	1.58	179	13.82	10.39	10	7
351011	Chefs and Head Cooks	7,501	7,779	278	0.46	264	17.30	10.38	7	6
292031	Cardiovascular Technologists and Technicians	2,937	3,917	980	4.17	182	17.32	10.31	6	6
499052	Telecommunications Line Installers and Repairers	11,702	14,419	2,717	2.90	549	16.95	10.28	9	7
472211	Sheet Metal Workers	11,104	13,254	2,150	2.42	488	14.81	10.28	10	7
472073	Operating Engineers/Construction Equipment Operators	21,093	23,091	1,998	1.18	699	14.10	10.26	10	7
514041	Machinists	10,233	11,423	1,190	1.45	353	15.05	10.22	9	7
533032	Truck Drivers, Heavy and Tractor-Trailer	75,251	86,816	11,565	1.92	2,440	15.32	10.12	10	7

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Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
472081	Drywall and Ceiling Tile Installers	9,369	10,878	1,509	2.01	275	14.05	10.03	10	7
472044	Tile and Marble Setters	4,980	5,626	646	1.62	162	16.37	10.00	9	7
472031	Carpenters	60,276	69,049	8,773	1.82	2,079	14.39	9.91	9	7
319094	Medical Transcriptionists	4,860	6,140	1,280	3.29	280	13.18	9.74	7	7
292012	Medical and Clinical Laboratory Technicians	8,335	9,851	1,516	2.27	376	14.20	9.57	6	7
472181	Roofers	12,478	14,333	1,855	1.86	506	13.44	9.56	10	7
514121	Welders, Cutters, Solderers, and Brazers	18,700	23,065	4,365	2.92	1,040	13.57	9.54	7	7
319091	Dental Assistants	15,382	20,024	4,642	3.77	835	12.48	9.52	10	7
472051	Cement Masons and Concrete Finishers	11,240	12,762	1,522	1.69	283	13.72	9.38	9	7
472141	Painters, Construction and Maintenance	30,313	34,447	4,134	1.70	1,033	13.22	9.37	10	7
419022	Real Estate Sales Agents	35,693	39,120	3,427	1.20	1,032	20.21	9.27	7	7
493021	Automotive Body and Related Repairers	9,835	11,595	1,760	2.24	452	16.63	9.23	9	7
436013	Medical Secretaries	24,148	28,795	4,647	2.41	972	11.60	9.22	7	7
319092	Medical Assistants	31,325	44,011	12,686	5.06	2,332	11.36	9.21	10	7
433031	Bookkeeping, Accounting, and Auditing Clerks	128,237	140,085	11,848	1.15	3,858	12.98	9.16	10	7
371011	First-Line Superv. of Housekeeping & Janitorial Workers	14,175	16,625	2,450	2.16	675	13.34	9.13	8	7
292041	Emergency Medical Technicians and Paramedics	8,571	10,350	1,779	2.59	428	12.92	9.12	7	7
493023	Automotive Service Technicians and Mechanics	53,355	63,817	10,462	2.45	2,504	15.60	9.10	7	7
173031	Surveying and Mapping Technicians	7,562	8,827	1,265	2.09	393	13.11	9.09	10	6
434051	Customer Service Representatives	141,508	180,708	39,200	3.46	6,017	12.62	9.07	10	7
474041	Hazardous Materials Removal Workers	1,528	1,823	295	2.41	81	13.54	9.03	10	7
254031	Library Technicians	4,594	5,422	828	2.25	298	11.64	9.03	11	6
<u>Occupations Failing at Least 1 of 3 Criteria</u>										
518011	Nuclear Power Reactor Operators	142	135	(7)	-0.62	4	30.81	25.44	9	7
151011	Computer and Information Scientists, Research	958	1,172	214	2.79	35	38.02	24.50	2	7
119131	Postmasters and Mail Superintendents	425	464	39	1.15	12	29.03	23.14	8	6
291124	Radiation Therapists	887	1,064	177	2.49	39	24.85	19.33	6	6

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Code	Title									
535031	Ship Engineers	564	633	69	1.53	27	26.82	19.24	7	7
332022	Forest Fire Inspectors and Prevention Specialists	18	20	2	1.39	1	21.69	18.10	8	6
173021	Aerospace Engineering and Operations Technicians	605	600	(5)	-0.10	12	24.06	17.87	6	6
132061	Financial Examiners	1,013	1,211	198	2.44	43	28.19	17.46	5	7
518013	Power Plant Operators	2,412	2,480	68	0.35	80	23.18	17.33	9	7
518012	Power Distributors and Dispatchers	400	386	(14)	-0.44	12	25.04	16.85	9	7
532012	Commercial Pilots	1,028	1,228	200	2.43	47	27.61	16.70	7	7
534031	Railroad Conductors and Yardmasters	1,555	1,529	(26)	-0.21	70	19.91	16.31	8	7
333052	Transit and Railroad Police	39	41	2	0.64	1	21.71	16.17	9	7
492091	Avionics Technicians	1,091	1,173	82	0.94	32	20.61	16.03	7	7
492095	Electrical Repairers, Powerhouse, Substation, and Relay	657	656	(1)	-0.02	13	22.06	15.68	7	7
332021	Fire Inspectors and Investigators	963	1,154	191	2.48	48	21.11	15.47	8	6
119061	Funeral Directors	1,180	1,357	177	1.88	42	23.53	14.87	6	6
299010	Occupational Health & Safety Specialists & Technicians	1,443	1,629	186	1.61	59	23.92	14.53	5	7
292091	Orthotists and Prosthetists	541	683	142	3.28	31	28.15	14.49	5	6
173027	Mechanical Engineering Technicians	1,644	1,876	232	1.76	61	19.54	13.77	6	6
173026	Industrial Engineering Technicians	2,785	2,975	190	0.85	79	20.37	13.76	6	6
173013	Mechanical Drafters	2,208	2,440	232	1.31	94	20.45	13.58	7	7
518091	Chemical Plant and System Operators	1,197	1,115	(82)	-0.86	37	18.70	13.48	9	7
131011	Agents and Business Managers of Artists & Entertainers	963	1,112	149	1.93	37	37.50	13.47	4	6
194092	Forensic Science Technicians	1,191	1,285	94	0.99	54	18.85	13.05	6	6
518092	Gas Plant Operators	220	225	5	0.28	7	19.87	12.95	9	7
514012	Numerical Tool and Process Control Programmers	377	411	34	1.13	17	17.99	12.54	9	7
152091	Mathematical Technicians	210	221	11	0.65	4	15.54	12.46	6	6
271022	Fashion Designers	452	497	45	1.24	10	25.53	12.14	5	6
173024	Electro-Mechanical Technicians	1,806	2,053	247	1.71	66	18.01	11.97	6	6
492021	Radio Mechanics	364	309	(55)	-1.89	7	17.90	11.97	7	7
519011	Chemical Equipment Operators and Tenders	1,602	1,779	177	1.38	59	17.47	11.93	10	7
452011	Agricultural Inspectors	689	695	6	0.11	18	15.43	11.91	8	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed ITA Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
518021	Stationary Engineers and Boiler Operators	1,358	1,408	50	0.46	44	17.44	11.90	9	7
232093	Title Examiners, Abstractors, and Searchers	3,548	3,822	274	0.97	66	17.75	11.61	10	7
492093	Electronics Installers & Repairers, Transportation Equip.	1,083	1,287	204	2.35	45	15.67	10.97	7	7
271021	Commercial and Industrial Designers	1,037	1,211	174	2.10	32	22.16	10.96	5	6
434011	Brokerage Clerks	3,302	3,615	313	1.18	81	14.80	10.84	10	6
451011	First-Line Superv. of Farming, Fishing, & Forestry Workers	6,601	6,831	230	0.44	79	16.73	10.68	10	6
512011	Aircraft Structure, Surfaces, and Systems Assemblers	1,416	1,445	29	0.26	40	14.51	10.61	9	7
492092	Electric Motor, Power Tool, and Related Repairers	2,219	2,480	261	1.47	82	14.78	10.41	7	7
271013	Fine Artists, Including Painters, Sculptors, & Illustrators	1,399	1,579	180	1.61	50	23.23	10.34	5	6
434131	Loan Interviewers and Clerks	12,437	10,815	(1,622)	-1.63	87	14.03	10.23	11	7
232092	Law Clerks	1,684	1,846	162	1.20	35	15.54	10.21	5	6
499097	Signal and Track Switch Repairers	227	215	(12)	-0.66	5	15.00	10.13	9	7
536041	Traffic Technicians	153	172	19	1.55	8	14.52	9.98	11	6
271027	Set and Exhibit Designers	653	763	110	2.11	20	14.77	9.93	5	6
273091	Interpreters and Translators	1,001	1,178	177	2.21	41	16.88	9.92	9	6
474091	Segmental Pavers	68	84	16	2.94	3	10.18	9.86	11	7
274014	Sound Engineering Technicians	718	860	142	2.47	38	16.31	9.71	7	6
274032	Film and Video Editors	903	1,125	222	3.07	45	17.33	9.63	5	6
532022	Airfield Operations Specialists	261	307	46	2.20	16	15.57	9.61	11	7
493041	Farm Equipment Mechanics	1,800	1,882	82	0.57	56	14.48	9.51	7	7
493053	Outdoor Power Equipment and Small Engine Mechanics	2,577	2,715	138	0.67	81	13.25	9.49	10	7
232091	Court Reporters	900	1,131	231	3.21	37	18.33	9.39	7	7
492096	Electronics Installers & Repairers, Motor Vehicles	510	598	88	2.16	22	12.57	9.12	7	7
311013	Psychiatric Aides	3,865	4,254	389	1.26	97	11.42	9.06	11	7
472053	Terrazzo Workers and Finishers	244	288	44	2.25	8	13.67	9.00	9	7
413041	Travel Agents	12,309	12,415	106	0.11	311	13.50	8.96	7	7
519193	Cooling and Freezing Equipment Operators and Tenders	345	337	(8)	-0.29	6	13.84	8.94	10	7
351012	First-Line Superv. of Food Preparation & Serving Workers	46,473	51,334	4,861	1.31	1,750	13.39	8.91	8	7
312012	Occupational Therapist Aides	323	432	109	4.22	22	11.39	8.87	11	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed ITA Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
472130	Insulation Workers	3,857	4,421	564	1.83	183	14.68	8.85	10	7
493052	Motorcycle Mechanics	861	928	67	0.97	30	13.86	8.84	9	7
512091	Fiberglass Laminators and Fabricators	3,175	3,383	208	0.82	81	12.03	8.81	10	7
292071	Medical Records and Health Information Technicians	11,554	16,068	4,514	4.88	797	12.05	8.80	6	7
373012	Pesticide Handlers, Sprayers, & Applicators, Vegetation	3,266	3,504	238	0.91	110	11.86	8.75	10	6
274011	Audio and Video Equipment Technicians	2,292	2,706	414	2.26	117	15.03	8.68	9	7
499031	Home Appliance Repairers	2,602	2,866	264	1.27	85	13.71	8.68	9	7
499042	Maintenance and Repair Workers, General	73,118	78,668	5,550	0.95	1,626	12.86	8.66	9	7
492097	Home Entertainment Electronics Installers and Repairers	2,502	2,405	(97)	-0.48	47	14.35	8.61	7	7
272041	Music Directors and Composers	4,644	5,628	984	2.65	206	18.21	8.55	4	6
436014	Secretaries, Except Legal, Medical, and Executive	108,356	112,324	3,968	0.46	2,321	11.91	8.50	10	7
274031	Camera Operators, Television, Video, and Motion Picture	1,456	1,791	335	2.88	69	15.18	8.49	10	7
433071	Tellers	25,351	24,608	(743)	-0.37	1,227	10.26	8.37	11	7
473012	Helpers - Carpenters	5,791	6,555	764	1.65	373	10.93	8.35	11	7
274012	Broadcast Technicians	3,198	3,832	634	2.48	170	15.21	8.32	7	7
472121	Glaziers	4,744	5,766	1,022	2.69	211	12.98	8.30	9	7
292053	Psychiatric Technicians	3,199	3,767	568	2.22	150	10.66	8.29	7	7
517011	Cabinetmakers and Bench Carpenters	8,934	9,918	984	1.38	399	11.80	8.24	9	7
516093	Upholsterers	2,206	1,968	(238)	-1.35	75	12.50	8.19	9	7
512031	Engine and Other Machine Assemblers	1,313	1,643	330	3.14	66	12.13	8.19	11	7
515021	Job Printers	4,895	5,761	866	2.21	226	12.14	8.18	9	7
312022	Physical Therapist Aides	1,581	2,122	541	4.28	110	10.67	8.05	11	6
132082	Tax Preparers	6,085	7,141	1,056	2.17	248	12.10	8.01	10	6
259041	Teacher Assistants	41,423	50,307	8,884	2.68	1,930	10.60	7.98	11	7
274013	Radio Operators	171	176	5	0.37	6	13.66	7.97	9	6
292056	Veterinary Technologists and Technicians	5,483	6,651	1,168	2.66	280	10.54	7.92	6	6
311012	Nursing Aides, Orderlies, and Attendants	75,874	95,348	19,474	3.21	3,340	9.55	7.78	11	7
319093	Medical Equipment Preparers	2,796	3,380	584	2.61	143	9.63	7.77	11	7
533033	Truck Drivers, Light or Delivery Services	62,887	74,051	11,164	2.22	2,221	12.35	7.71	11	7

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

**Sorted by Entry Wage
Table 1b**

Proposed ITA Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour

Occupation		Employment		Change		Average Annual Openings	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %		Mean	Entry	Training Code	Training Code
Code	Title									
513011	Bakers	7,463	8,998	1,535	2.57	304	10.17	7.69	9	6
292052	Pharmacy Technicians	13,733	18,310	4,577	4.17	898	10.25	7.64	10	7
271023	Floral Designers	4,220	4,683	463	1.37	99	10.22	7.61	10	6
211093	Social and Human Service Assistants	11,619	16,361	4,742	5.10	748	10.92	7.50	10	7
512092	Team Assemblers	40,505	43,015	2,510	0.77	1,012	10.11	7.39	10	6
311011	Home Health Aides	27,854	37,347	9,493	4.26	1,512	8.85	7.28	11	7
512022	Electrical and Electronic Equipment Assemblers	11,850	11,378	(472)	-0.50	307	9.70	7.07	11	7
274021	Photographers	7,999	8,839	840	1.31	260	12.54	7.06	9	7
292051	Dietetic Technicians	1,474	1,900	426	3.61	89	11.08	7.04	10	6
516052	Tailors, Dressmakers, and Custom Sewers	3,419	3,513	94	0.34	87	11.23	7.03	8	7
373011	Landscaping and Groundskeeping Workers	99,579	123,477	23,898	3.00	5,334	9.49	6.99	11	6
513023	Slaughterers and Meat Packers	1,040	969	(71)	-0.85	26	9.05	6.95	10	7
533022	Bus Drivers, School	21,529	23,211	1,682	0.98	747	10.12	6.86	11	7
319011	Massage Therapists	3,266	3,952	686	2.63	156	13.06	6.84	7	7
394021	Funeral Attendants	1,791	2,249	458	3.20	96	8.65	6.51	11	6
272031	Dancers	891	989	98	1.37	29	11.67	6.46	9	7
399032	Recreation Workers	19,570	23,031	3,461	2.21	820	9.44	6.40	5	6
399011	Child Care Workers	52,447	62,490	10,043	2.39	2,949	7.48	6.16	11	7
394011	Embalmers	374	403	29	0.97	12	13.32	6.14	7	6

Postsecondary Level Occupations Requiring Associate's Degree or Vocational Training

Table 1c

Proposed ITA Criteria:

- 1 FLDOE Adjusted Training Codes 6-7 (associate's degree or vocational training)
- 2 50 annual openings and average growth rate of 1.96% or 100 annual openings with any positive growth
- 3 Mean Wage of \$10.74/hour and Entry Wage of \$9.00/hour

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code

Previous ITA Occupations Screened Out by Proposed Criteria

299010	Occupational Health & Safety Specialists & Technicians	1,443	1,629	186	1.61	59	23.92	14.53	5	7
332021	Fire Inspectors and Investigators	963	1,154	191	2.48	48	21.11	15.47	8	6
274012	Broadcast Technicians	3,198	3,832	634	2.48	170	15.21	8.32	7	7
472130	Insulation Workers	3,857	4,421	564	1.83	183	14.68	8.85	10	7
499031	Home Appliance Repairers	2,602	2,866	264	1.27	85	13.71	8.68	9	7
413041	Travel Agents	12,309	12,415	106	0.11	311	13.50	8.96	7	7
292071	Medical Records and Health Information Technicians	11,554	16,068	4,514	4.88	797	12.05	8.80	6	7
436014	Secretaries, Except Legal, Medical, and Executive	108,356	112,324	3,968	0.46	2,321	11.91	8.50	10	7
517011	Cabinetmakers and Bench Carpenters	8,934	9,918	984	1.38	399	11.80	8.24	9	7
311013	Psychiatric Aides	3,865	4,254	389	1.26	97	11.42	9.06	11	7
292053	Psychiatric Technicians	3,199	3,767	568	2.22	150	10.66	8.29	7	7

	March				April				May				June			
Fiscal year 2004-05																
WEC establish proposed criteria	█															
WFI Task Force Approval of criteria		█	█													
Prepare and distribute proposed TOLs			█	█												
Update CIP to SOC linkages		█	█	█	█	█	█									
Garner regional input					█	█	█	█								
Review and prepare final draft TOL								█								
WFI Task Force approval of 04/05 TOL									█	█						
WFI Board approval of 04/05 TOL											█		or		█	
Distribute final TOL and post to Web															█	█

	August			September				October			November			December				
Fiscal year 2005-06																		
WEC establish proposed criteria			█															
WFI Task Force Approval of criteria				█	█	█												
Prepare and distribute proposed TOLs				█	█	█	█											
Update CIP to SOC linkages				█	█	█	█	█	█									
Garner regional input								█	█	█								
Review and prepare final draft TOL										█								
WFI Task Force approval of 04/05 TOL												█	█					
WFI Board approval of 04/05 TOL													█	or		█		
Distribute final TOL and post to Web																█	█	█

WEC Process / Timeline

- **WEC Conference – March 2004 – Transition Process**
 - Determine proposed state criteria (WEC principals on March 4, 2004)
 - Based on openings, growth rate, wages, and education/ training
 - Send state criteria to WFI Board Task Force for review and approval (WFI in March)
 - Conference call with Task Force (WFI in March)
 - Generate the Regional Targeted Occupation Lists (TOLs) (AWI in March)
 - Prepare Classification of Instructional Programs (CIP) to Standard Occupational Classification (SOC) linkages (DOE, as soon as possible)
 - Review and modify e-mail to accommodate Regional Workforce Boards (RWBs) input (DOE / AWI in March)
 - Send a letter with the TOL to the RWBs outlining the schedule for TOL review by local High Skill / High Wage Committees, provide response instructions (WFI / Curtis Austin in March or early April)
 - Review the Regional TOLs with current CIPs (RWBs in April)
 - RWBs have 4 weeks to respond
 - If RWBs want to add an occupation, justification must be submitted (documentation should be available if requested)
 - 10 openings in small region
 - 25 openings in large region
 - must meet the adjusted wage criteria for the region
 - Meet to review RWBs responses / requests (WFI, AWI, DOE in April or May)
 - Recommend a final TOL for each Workforce Region to the WFI Board Task Force (WFI in May)
 - Recommend final Workforce Region TOLs to WFI Board (WFI Board Task Force at the May Board meeting)
 - Finalize Workforce Region TOLs (WFI in June)
 - Set criteria and wage indexing for August WEC meeting (All WEC principals in June)
 - Assure that all CIP-SOC linkages are completed prior to the August WEC meeting (DOE in July)

- **WEC Conference – August 2004 – Recurring Process**
 - Determine proposed state criteria (WEC principals in August, 2004)
 - Based on openings, growth rate, wages, education / training, and indexing
 - Send state criteria to WFI Board Task Force for review and approval (WFI in September)
 - Conference call with Task Force (WFI in September)
 - Generate the Regional Targeted Occupation Lists (TOLs) (AWI in September)
 - Finalize Classification of Instructional Programs (CIP) to Standard Occupational Classification (SOC) linkages (DOE in July)
 - Send a letter with the TOL to the RWBs outlining the schedule for TOL review by local High Skill / High Wage Committees, provide response instructions (WFI / Curtis Austin in September or early October)
 - Review the Regional TOLs with current CIPs (RWBs in October)
 - RWBs have 4 weeks to respond
 - If RWBs want to add an occupation, justification must be submitted (documentation should be available if requested)
 - 10 openings in small region
 - 25 openings in large region
 - must meet the adjusted wage criteria for the region
 - Meet to review RWBs responses / requests (WFI, AWI, DOE in October or November)
 - Recommend a final TOL for each Workforce Region to the WFI Board Task Force (WFI in November)
 - Recommend final Workforce Region TOLs to WFI Board (WFI Board Task Force at the November Board meeting)
 - Finalize Workforce Region TOLs (WFI in December)
- **WEC Conference – February 2005**
 - Update the labor market and economic conditions report and review any short-term adjustments to demand occupations based on current economic conditions.
 - Review criteria and wage indexing for August WEC meeting (All WEC principals in June)
 - Assure that all CIP-SOC linkages are completed prior to the August WEC meeting (DOE in July)

University Degree Targeting

**Workforce Estimating Conference
March 4, 2004**

Methodology Used to Identify Professional and Workforce Needs

- Data used for report targeting baccalaureate degrees in 2001 were updated and expanded to include graduate and professional programs.
- Programs either:
 - Met critical state needs
 - Were identified as being important to continued high-tech industry development
 - Had a record of placing graduates in high-wage positions

Emerging Technologies

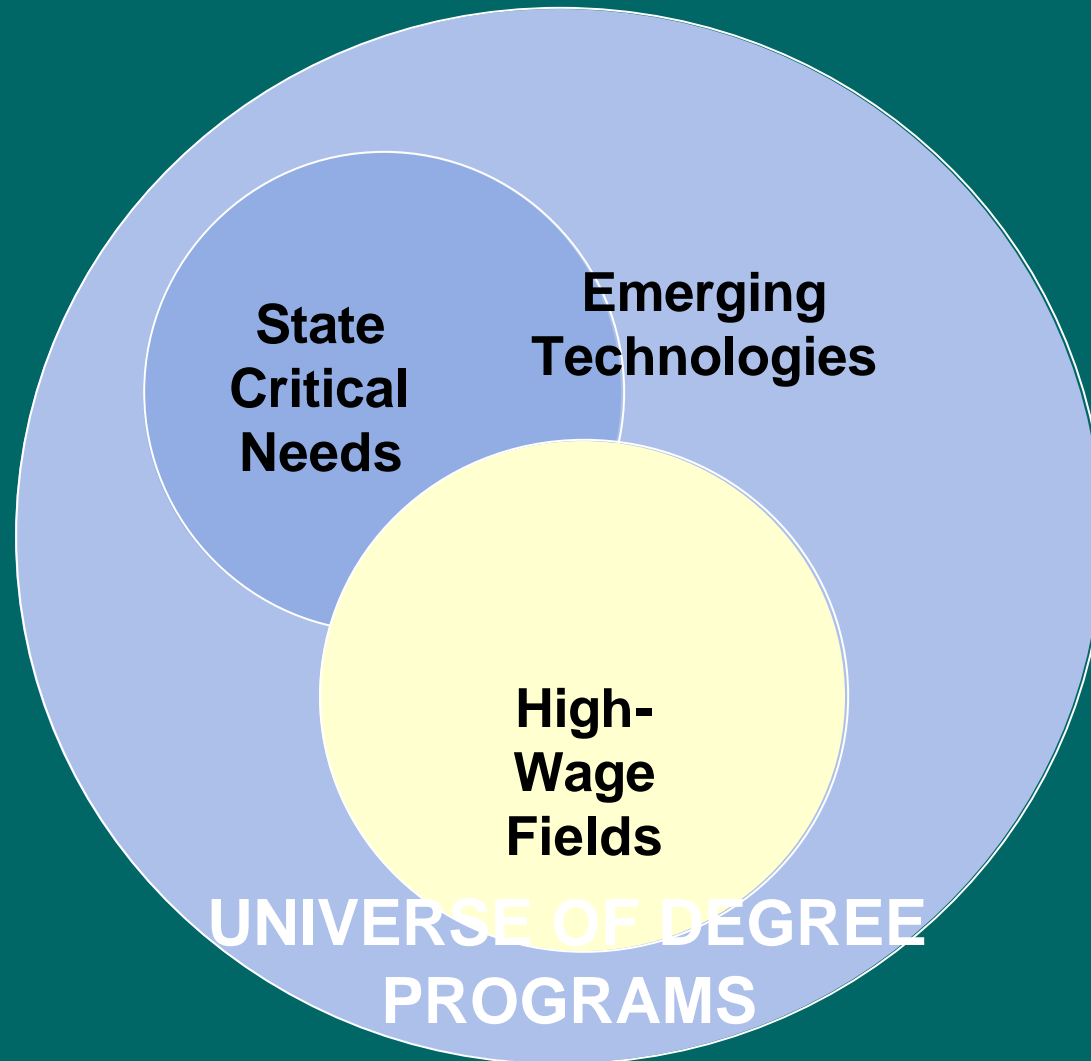
- **Advisory Group on Emerging Technologies analyzed targeted industry sectors with areas of research important to economic development**
- **Advisory Group grouped programs under broad descriptive areas**

High-Wage Jobs

Criteria similar to those used in 2001 report adopted by Workforce Estimating Conference

- Minimum number of graduates and placements in Florida
- Minimum salary level (\$32,000 for bachelors and \$50,000 for graduate and professional)

Targeted Degree Programs



Targeted Degree Planning Considerations

- Where do students in particular fields come from?
- What are the opportunity costs of targeted degrees: i.e., what else might students have done?
- What undergraduate programs feed into targeted graduate degrees?
- What are the relative costs of targeted programs vs. non-targeted programs?

Undergraduate Degree Pipeline

2002-2003 Education and Engineering Grads by Origin

	% Native Students	% CC Transfers
EDUCATION	33.6%	52.0%
ENGINEERING	52.7%	29.7%
ALL STUDENTS	44.0%	38.4%

Opportunity Costs: What Else Might Students Have Done?

Majors Dropped by 2002-2003 Computer Science Grads (Native SUS Students)

Computer Engineering	18
Engineering	17
Liberal Arts & Sciences	17
Electrical Engineering	10
Microbiology/Bacteriology	9
Business Administration	7
Biology	6
Mathematics	6
Biological Sciences/Life Sciences	4
Chemistry	4

Graduate Program Pipeline

SUS Undergraduate Majors of Fall 2003 Graduate Students in Special Education

Elementary Teacher Ed	36
Special Ed, General	36
Psychology, General	23
Ed. Of the Specific Learning Disabled	13
Ed of the Mentally Handicapped	10
Speech Pathology and Audiology	9
Ed. Of the Emotionally Handicapped	7
Business Administration	5
Social Work, General	5
Criminal Justice Studies	4
Social Sciences, General	4
Liberal Arts & Sciences	4

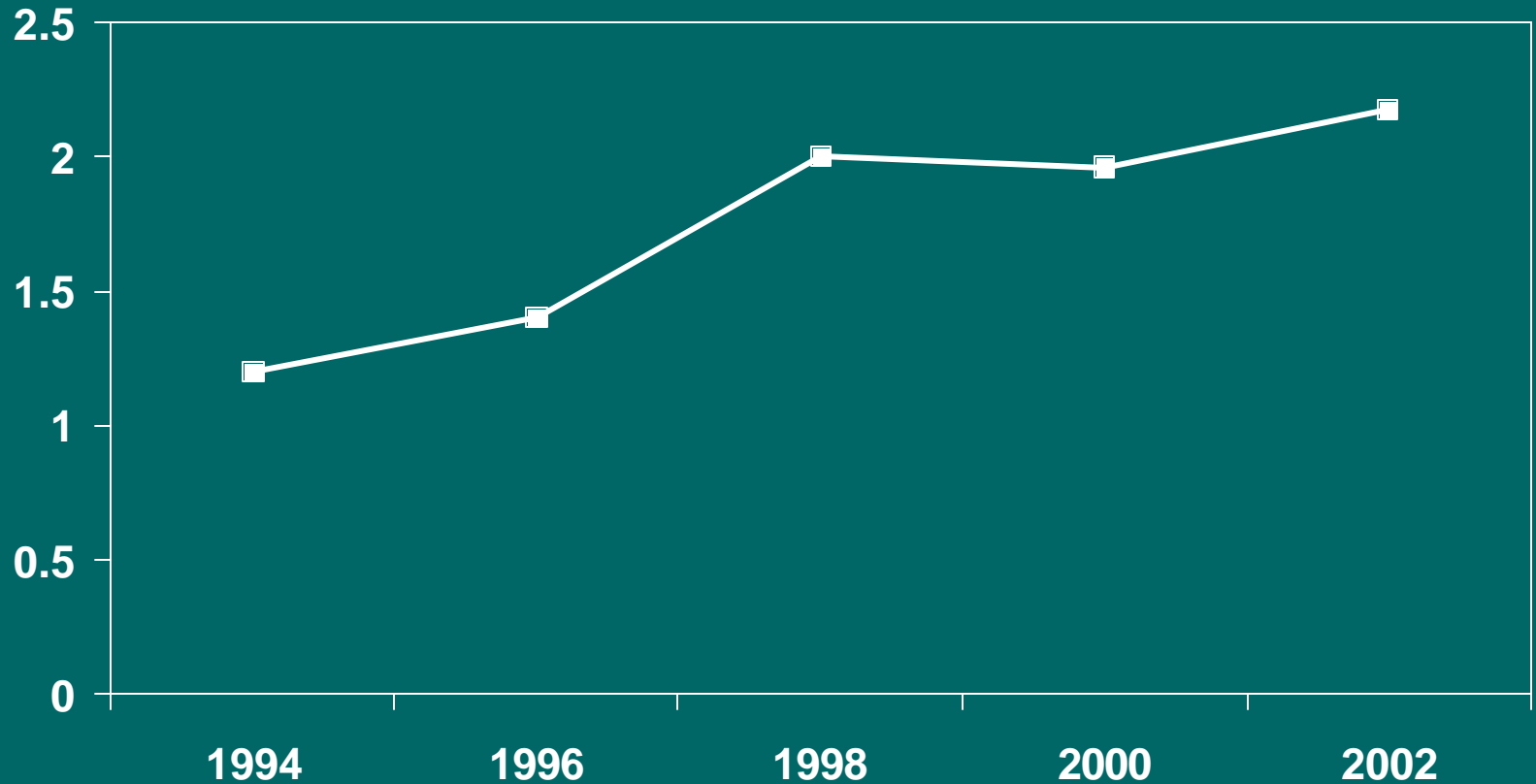
Relative Cost of Instruction in Selected Program Areas

	Cost Per Upper Division Credit	Percent of SUS Average
All Disciplines Average	\$244.87	
Computer and Information Sciences	\$269.46	110%
Education	\$264.07	108%
Engineering	\$409.15	167%
Life Sciences	\$297.10	121%
Physical Sciences	\$423.22	173%
Health Professions	\$297.79	122%

Different scenarios to consider

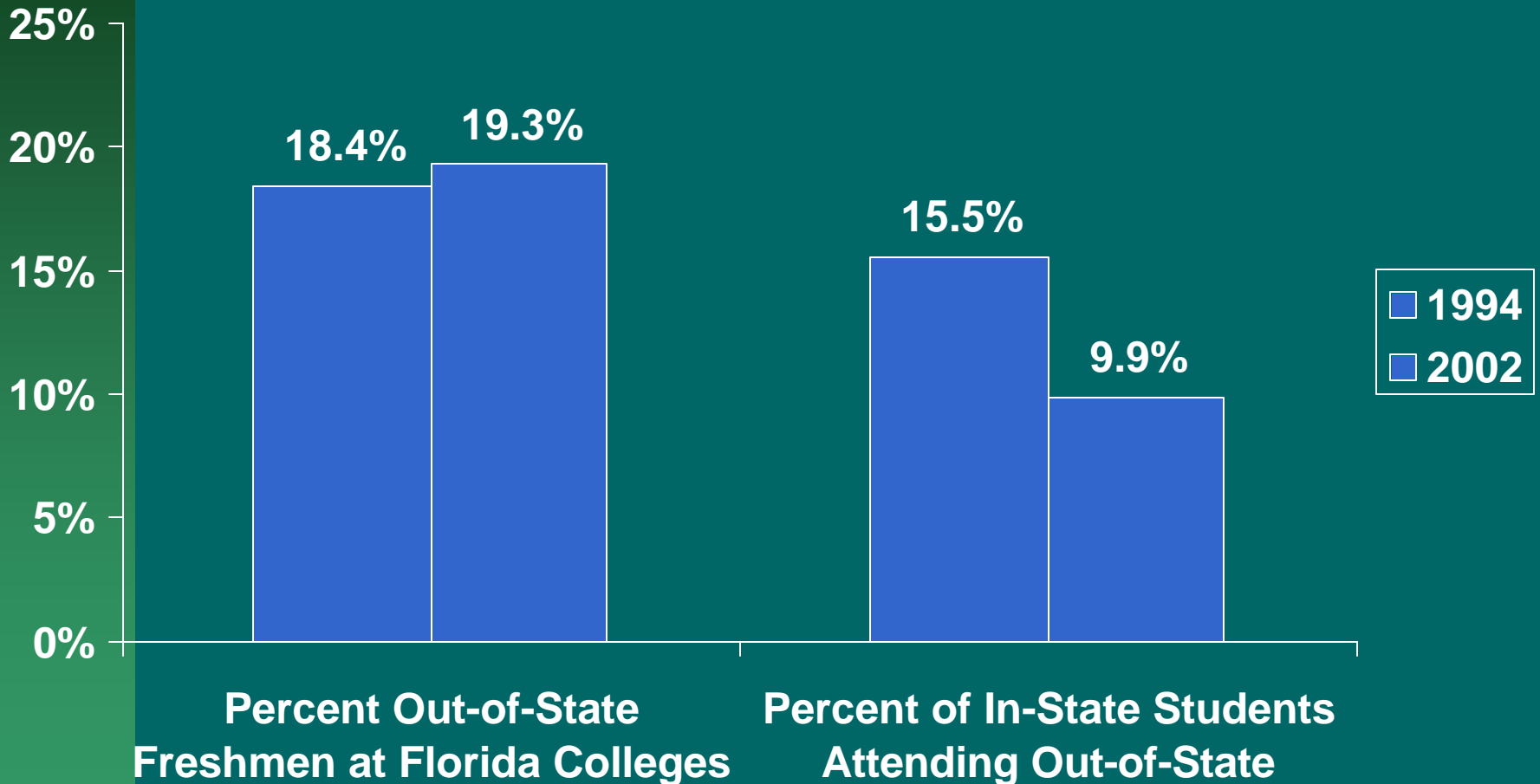
- Forecasted need/substantial demand**
- Forecasted need/inadequate demand**
- No forecasted need/considerable student demand**

Import/Export Ratio: 2 Freshmen come in for every 1 who leaves



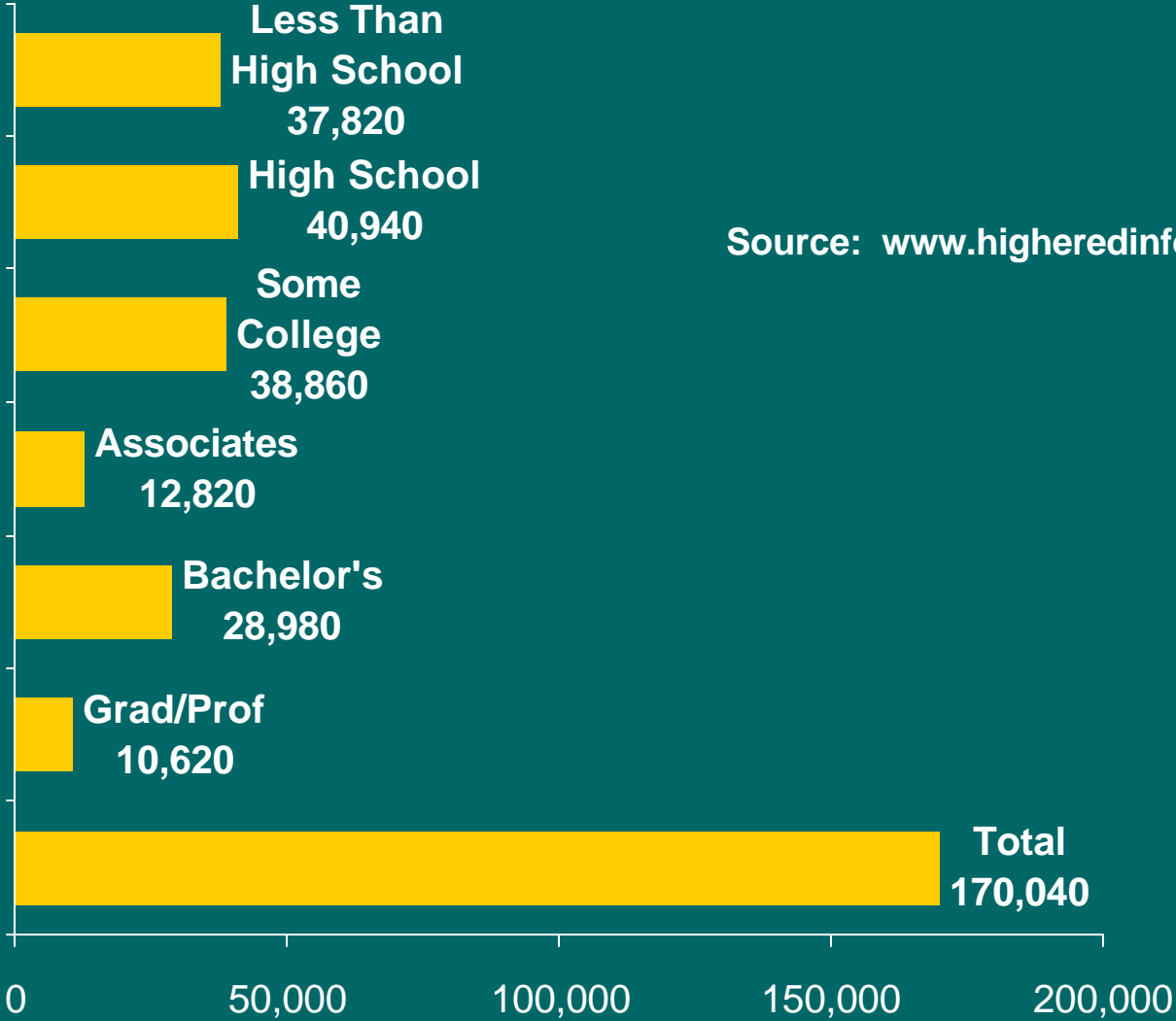
Source: IPEDS Residency and Migration, compiled at www.higheredinfo.org

Fewer In-State Students are Leaving



Source: IPEDS Residency and Migration, compiled at www.higheredinfo.org

Net Imports of 22-29 Year-Olds, By Education Level



Source: www.higheredinfo.org

Next Steps for Strategic Plan

- Universities, SBE, Governor's Office, key legislators, CEPRI, and other interested parties to review y-axis from a system perspective
- Board staff to compile comments for Board meeting in March
- Board staff to begin crafting final system goals for March meeting

2004 Workforce Estimating Conference Potential Screening Criteria

Bachelor's Degree Tables

**2004 Workforce Estimating Conference Potential Screening Criteria
Summary Table
Bachelor's Degree**

Table	Education Level	Occupational Characteristic	Criteria	Occupational Count		
				Pass	Fail	Total
1	Bachelor's Degree	Training Code	FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)	117	660	777
2a	Bachelor's Degree (mean wage sort)	Openings/Growth Rate Wage	50 annual openings and above the over-all average growth (1.96%) or 100 annual openings with any positive growth....and Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)	66	51	117
2b	Bachelor's Degree (Entry wage sort)	Openings/Growth Rate Wage	50 annual openings and above the over-all average growth (1.96%) or 100 annual openings with any positive growth....and Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)	66	51	117
<u>Other Screening Results</u>						
	Bachelor's Degree	Growth Rate	Above the over-all average growth for all occupations (1.96/year)	67	50	117
	Bachelor's Degree	Openings/Growth Rate	50 annual openings and above the over-all average growth (1.96%)	50	67	117
	Bachelor's Degree	Openings/Growth Rate	100 annual openings with any positive growth	64	53	117
	Bachelor's Degree	Openings/Growth Rate	50 annual openings and above the over-all average growth (1.96%) or 100 annual openings with any positive growth	71	46	117
	Bachelor's Degree	Wage	Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)	103	14	117

University Level Occupations Requiring an Bachelor's Degree

Sorted by Occupational Title

Table 1

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
132011	Accountants and Auditors	59,091	69,377	10,286	2.18	2,123	25.95	15.93	5	5
152011	Actuaries	546	620	74	1.69	16	36.34	21.02	4	5
231021	Admin. Law Judges, Adjudicators, and Hearing Officers	437	434	(3)	-0.09	12	35.67	17.00	4	4
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	4
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	4
172011	Aerospace Engineers	4,209	4,451	242	0.72	153	37.42	24.92	5	5
194011	Agricultural and Food Science Technicians	614	784	170	3.46	35	12.95	9.92	6	5
172021	Agricultural Engineers	135	162	27	2.50	6	22.20	13.69	5	5
251041	Agricultural Sciences Teachers, Postsecondary	1,352	1,638	286	2.64	71	48.18	31.98	2	4
132021	Appraisers and Assessors of Real Estate	3,903	4,681	778	2.49	202	22.67	13.18	7	5
231022	Arbitrators, Mediators, and Conciliators	613	797	184	3.75	39	36.47	15.79	4	4
171011	Architects, Except Landscape and Naval	7,868	8,827	959	1.52	164	31.15	21.34	5	5
251121	Art, Drama, and Music Teachers, Postsecondary	2,620	3,174	554	2.64	137	34.03	19.46	2	4
299091	Athletic Trainers	360	381	21	0.73	12	17.45	12.45	5	5
259011	Audio-Visual Collections Specialists	1,327	1,521	194	1.83	43	23.54	16.35	10	5
251042	Biological Science Teachers, Postsecondary	1,501	1,819	318	2.65	79	41.81	23.39	2	4
194021	Biological Technicians	1,079	1,170	91	1.05	36	14.19	10.63	6	5
172031	Biomedical Engineers	457	590	133	3.64	25	25.71	13.33	5	5
171021	Cartographers and Photogrammetrists	358	415	57	1.99	18	17.67	10.50	5	5
172041	Chemical Engineers	414	443	29	0.88	11	36.72	24.55	5	5
194031	Chemical Technicians	1,402	1,640	238	2.12	61	15.55	10.55	6	5
192031	Chemists	1,960	2,270	310	1.98	98	22.51	14.71	5	4
111011	Chief Executives	22,440	26,183	3,743	2.09	1,143	70.50	34.13	4	4
211021	Child, Family, and School Social Workers	11,897	13,839	1,942	2.04	371	15.51	11.25	5	5
172051	Civil Engineers	11,992	12,952	960	1.00	304	31.21	21.18	5	5
212011	Clergy	9,894	12,227	2,333	2.95	546	14.75	8.24	3	4
251122	Communications Teachers, Postsecondary	899	1,089	190	2.64	47	37.35	22.82	2	4
131072	Compensation, Benefits, and Job Analysis Specialists	6,880	7,834	954	1.73	248	21.33	14.25	5	5
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	4
172061	Computer Hardware Engineers	2,288	2,356	68	0.37	41	34.76	22.88	5	5
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	5
151032	Computer Software Engineers, Systems Software	10,700	14,781	4,081	4.77	575	35.09	23.89	5	5

University Level Occupations Requiring an Bachelor's Degree

Sorted by Occupational Title

Table 1

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	5
191031	Conservation Scientists	884	866	(18)	-0.25	29	27.17	17.69	5	5
131051	Cost Estimators	11,524	13,399	1,875	2.03	478	22.61	14.43	5	5
212021	Directors, Religious Activities and Education	11,468	14,280	2,812	3.07	535	13.94	8.50	5	5
251051	Earth and Space Sciences Teachers, Postsecondary	1,061	1,286	225	2.65	56	40.61	24.23	2	4
273041	Editors	6,576	7,902	1,326	2.52	368	21.89	13.07	5	5
119032	Education Administrators, Elementary and Secondary	9,933	11,295	1,362	1.71	419	41.07	31.04	4	4
119033	Education Administrators, Postsecondary	3,475	3,917	442	1.59	142	33.99	21.14	4	4
172071	Electrical Engineers	5,269	5,820	551	1.31	163	31.97	23.51	5	5
172072	Electronics Engineers, Except Computer	6,379	7,022	643	1.26	194	33.22	22.67	5	5
252021	Elementary School Teachers, Except Special Education	65,724	83,843	18,119	3.45	3,657	25.36	18.08	5	5
131061	Emergency Management Specialists	484	550	66	1.70	22	24.53	15.02	8	5
131071	Employment, Recruitment, and Placement Specialists	11,240	12,967	1,727	1.92	425	19.53	12.53	5	5
251123	English Language & Literature Teachers, Postsecondary	2,197	2,662	465	2.65	115	32.84	18.00	2	4
172081	Environmental Engineers	2,471	3,058	587	2.97	120	30.71	19.76	5	5
251053	Environmental Science Teachers, Postsecondary	102	121	19	2.33	5	41.43	24.31	2	4
259021	Farm and Home Management Advisors	1,299	1,374	75	0.72	28	21.40	9.46	5	5
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	4
191012	Food Scientists and Technologists	358	360	2	0.07	12	NA	NA	5	5
251124	Foreign Language & Literature Teachers, Postsecondary	859	1,045	186	2.71	45	33.76	18.55	2	4
191032	Foresters	346	356	10	0.36	12	21.02	15.41	5	5
251043	Forestry & Conservation Teachers, Postsecondary	90	109	19	2.64	5	50.68	33.77	2	5
119071	Gaming Managers	82	98	16	2.44	4	25.51	15.59	4	4
339031	Gaming Surveillance Officers and Gaming Investigators	293	303	10	0.43	9	13.43	8.10	10	5
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	4
194041	Geological and Petroleum Technicians	224	273	49	2.73	11	13.72	9.80	6	5
192042	Geoscientists, Except Hydrologists and Geographers	618	752	134	2.71	36	30.24	20.07	5	5
251191	Graduate Teaching Assistants	652	787	135	2.59	34	8.94	8.17	5	5
172111	Health and Safety Engineers, Except Mining	1,769	1,979	210	1.48	55	28.46	19.44	5	5
211091	Health Educators	2,029	2,480	451	2.78	85	18.14	12.39	3	5
251071	Health Specialties Teachers, Postsecondary	7,293	8,851	1,558	2.67	383	57.02	26.43	2	5
113040	Human Resources Managers	8,681	9,815	1,134	1.63	287	32.28	18.70	4	4

University Level Occupations Requiring an Bachelor's Degree

Sorted by Occupational Title

Table 1

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
192043	Hydrologists	314	376	62	2.47	18	26.90	18.96	5	5
172112	Industrial Engineers	4,328	4,358	30	0.09	76	29.99	20.88	5	5
252012	Kindergarten Teachers, Except Special Education	10,546	13,404	2,858	3.39	479	25.90	17.85	5	5
171012	Landscape Architects	2,387	2,851	464	2.43	71	27.34	17.33	5	5
111031	Legislators	1,493	1,679	186	1.56	69	14.02	6.57	4	4
253011	Literacy, Remedial and GED Teachers and Instructors	5,124	6,225	1,101	2.69	186	17.68	10.09	5	5
132071	Loan Counselors	3,219	3,961	742	2.88	153	19.94	12.81	5	5
132072	Loan Officers	12,814	14,758	1,944	1.90	489	25.29	12.76	5	5
131111	Management Analysts	39,966	48,672	8,706	2.72	1,420	37.78	18.70	4	4
172121	Marine Engineers and Naval Architects	324	342	18	0.69	9	26.57	20.15	5	5
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	4
211013	Marriage and Family Therapists	998	1,228	230	2.88	48	20.08	12.93	3	5
172131	Materials Engineers	603	584	(19)	-0.39	13	33.17	21.54	5	5
192032	Materials Scientists	163	185	22	1.69	8	33.30	22.69	5	5
172141	Mechanical Engineers	5,662	6,117	455	1.00	219	30.85	20.53	5	5
131121	Meeting and Convention Planners	2,211	2,742	531	3.00	105	18.15	12.08	5	5
252022	Middle School Teachers, Exc. Special & Voc. Education	24,732	31,141	6,409	3.24	1,327	26.02	18.65	5	5
172151	Mining, Geological and Mining Safety Engineers	154	168	14	1.14	5	28.21	18.55	5	5
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	5
172161	Nuclear Engineers	271	246	(25)	-1.15	6	41.05	32.16	5	5
194051	Nuclear Technicians	117	129	12	1.28	5	29.32	21.62	6	5
291122	Occupational Therapists	4,798	6,079	1,281	3.34	272	25.61	18.06	5	5
172171	Petroleum Engineers	88	86	(2)	-0.28	2	73.83	39.12	5	5
291123	Physical Therapists	7,486	9,404	1,918	3.20	415	29.68	21.96	3	5
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	6
252011	Preschool Teachers, Except Special Education	20,214	22,650	2,436	1.51	548	10.12	7.10	5	5
339021	Private Detectives and Investigators	4,262	4,559	297	0.87	153	16.23	10.20	8	5
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	4
131021	Purchasing Agents and Buyers, Farm Products	962	1,133	171	2.22	40	23.54	11.78	8	5
131023	Purchasing Agents, Except Farm Products & Trade	11,285	12,724	1,439	1.59	396	21.15	14.04	5	5
113061	Purchasing Managers	4,874	4,831	(43)	-0.11	153	29.78	17.24	4	5
251193	Recreation & Fitness Studies Teachers, Postsecondary	550	665	115	2.61	29	35.01	16.27	3	5

University Level Occupations Requiring an Bachelor's Degree

**Sorted by Occupational Title
Table 1**

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
291125	Recreational Therapists	1,069	1,199	130	1.52	42	15.02	9.88	5	5
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	5	5
399041	Residential Advisors	2,621	3,113	492	2.35	118	9.91	7.48	10	5
419031	Sales Engineers	4,131	4,941	810	2.45	203	32.79	18.74	5	5
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	4
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	39,831	52,391	12,560	3.94	2,687	26.32	18.82	5	5
413031	Securities, and Financial Services Sales Agents	28,756	35,222	6,466	2.81	1,028	41.72	15.40	5	5
253021	Self-Enrichment Education Teachers	9,904	12,205	2,301	2.90	381	14.36	7.82	8	5
191013	Soil and Plant Scientists	91	90	(1)	-0.14	3	NA	NA	5	5
252042	Special Education Teachers, Middle School	5,395	6,553	1,158	2.68	209	23.87	17.63	5	5
252041	Special Education Teachers, Preschool - Elementary	11,017	14,511	3,494	3.96	565	26.64	19.18	5	5
252043	Special Education Teachers, Secondary School	7,049	8,665	1,616	2.87	286	27.00	20.08	5	5
152041	Statisticians	770	835	65	1.06	18	20.18	12.79	3	5
171022	Surveyors	3,321	3,491	170	0.64	121	23.03	14.51	5	5
132081	Tax Examiners, Collectors, and Revenue Agents	5,182	5,417	235	0.57	166	18.72	11.94	5	5
131073	Training and Development Specialists	14,168	16,536	2,368	2.09	558	20.50	13.12	5	5
193051	Urban and Regional Planners	2,147	2,478	331	1.93	93	25.68	17.56	3	4
252023	Vocational Education Teachers, Middle School	1,273	1,455	182	1.79	51	26.07	20.14	5	5
252032	Vocational Education Teachers, Secondary School	7,484	8,542	1,058	1.77	352	28.30	20.05	5	5

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
111011	Chief Executives	22,440	26,183	3,743	2.09	1,143	70.50	34.13	4	4
251071	Health Specialties Teachers, Postsecondary	7,293	8,851	1,558	2.67	383	57.02	26.43	2	5
251041	Agricultural Sciences Teachers, Postsecondary	1,352	1,638	286	2.64	71	48.18	31.98	2	4
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	4
251042	Biological Science Teachers, Postsecondary	1,501	1,819	318	2.65	79	41.81	23.39	2	4
413031	Securities, and Financial Services Sales Agents	28,756	35,222	6,466	2.81	1,028	41.72	15.40	5	5
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	4
119032	Education Administrators, Elementary and Secondary	9,933	11,295	1,362	1.71	419	41.07	31.04	4	4
251051	Earth and Space Sciences Teachers, Postsecondary	1,061	1,286	225	2.65	56	40.61	24.23	2	4
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	4
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	4
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	4
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	4
131111	Management Analysts	39,966	48,672	8,706	2.72	1,420	37.78	18.70	4	4
172011	Aerospace Engineers	4,209	4,451	242	0.72	153	37.42	24.92	5	5
151032	Computer Software Engineers, Systems Software	10,700	14,781	4,081	4.77	575	35.09	23.89	5	5
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	5
251121	Art, Drama, and Music Teachers, Postsecondary	2,620	3,174	554	2.64	137	34.03	19.46	2	4
119033	Education Administrators, Postsecondary	3,475	3,917	442	1.59	142	33.99	21.14	4	4
172072	Electronics Engineers, Except Computer	6,379	7,022	643	1.26	194	33.22	22.67	5	5
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	5
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	4
251123	English Language & Literature Teachers, Postsecondary	2,197	2,662	465	2.65	115	32.84	18.00	2	4
419031	Sales Engineers	4,131	4,941	810	2.45	203	32.79	18.74	5	5
113040	Human Resources Managers	8,681	9,815	1,134	1.63	287	32.28	18.70	4	4
172071	Electrical Engineers	5,269	5,820	551	1.31	163	31.97	23.51	5	5
172051	Civil Engineers	11,992	12,952	960	1.00	304	31.21	21.18	5	5
171011	Architects, Except Landscape and Naval	7,868	8,827	959	1.52	164	31.15	21.34	5	5
172141	Mechanical Engineers	5,662	6,117	455	1.00	219	30.85	20.53	5	5

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
172081	Environmental Engineers	2,471	3,058	587	2.97	120	30.71	19.76	5	5
291123	Physical Therapists	7,486	9,404	1,918	3.20	415	29.68	21.96	3	5
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	5
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	4
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	5
252032	Vocational Education Teachers, Secondary School	7,484	8,542	1,058	1.77	352	28.30	20.05	5	5
171012	Landscape Architects	2,387	2,851	464	2.43	71	27.34	17.33	5	5
252043	Special Education Teachers, Secondary School	7,049	8,665	1,616	2.87	286	27.00	20.08	5	5
252041	Special Education Teachers, Preschool - Elementary	11,017	14,511	3,494	3.96	565	26.64	19.18	5	5
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	39,831	52,391	12,560	3.94	2,687	26.32	18.82	5	5
252022	Middle School Teachers, Exc. Special & Voc. Education	24,732	31,141	6,409	3.24	1,327	26.02	18.65	5	5
132011	Accountants and Auditors	59,091	69,377	10,286	2.18	2,123	25.95	15.93	5	5
252012	Kindergarten Teachers, Except Special Education	10,546	13,404	2,858	3.39	479	25.90	17.85	5	5
291122	Occupational Therapists	4,798	6,079	1,281	3.34	272	25.61	18.06	5	5
252021	Elementary School Teachers, Except Special Education	65,724	83,843	18,119	3.45	3,657	25.36	18.08	5	5
132072	Loan Officers	12,814	14,758	1,944	1.90	489	25.29	12.76	5	5
252042	Special Education Teachers, Middle School	5,395	6,553	1,158	2.68	209	23.87	17.63	5	5
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	5	5
171022	Surveyors	3,321	3,491	170	0.64	121	23.03	14.51	5	5
131022	Wholesale and Retail Buyers, Except Farm Products	7,359	7,488	129	0.22	238	22.90	12.72	5	5
132021	Appraisers and Assessors of Real Estate	3,903	4,681	778	2.49	202	22.67	13.18	7	5
131051	Cost Estimators	11,524	13,399	1,875	2.03	478	22.61	14.43	5	5
192031	Chemists	1,960	2,270	310	1.98	98	22.51	14.71	5	4
273041	Editors	6,576	7,902	1,326	2.52	368	21.89	13.07	5	5
131072	Compensation, Benefits, and Job Analysis Specialists	6,880	7,834	954	1.73	248	21.33	14.25	5	5
131023	Purchasing Agents, Except Farm Products & Trade	11,285	12,724	1,439	1.59	396	21.15	14.04	5	5
131073	Training and Development Specialists	14,168	16,536	2,368	2.09	558	20.50	13.12	5	5
273043	Writers and Authors	5,412	6,130	718	1.66	176	20.22	9.98	5	5
132071	Loan Counselors	3,219	3,961	742	2.88	153	19.94	12.81	5	5

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
131071	Employment, Recruitment, and Placement Specialists	11,240	12,967	1,727	1.92	425	19.53	12.53	5	5
132081	Tax Examiners, Collectors, and Revenue Agents	5,182	5,417	235	0.57	166	18.72	11.94	5	5
131121	Meeting and Convention Planners	2,211	2,742	531	3.00	105	18.15	12.08	5	5
211091	Health Educators	2,029	2,480	451	2.78	85	18.14	12.39	3	5
253011	Literacy, Remedial and GED Teachers and Instructors	5,124	6,225	1,101	2.69	186	17.68	10.09	5	5
339021	Private Detectives and Investigators	4,262	4,559	297	0.87	153	16.23	10.20	8	5
194031	Chemical Technicians	1,402	1,640	238	2.12	61	15.55	10.55	6	5
211021	Child, Family, and School Social Workers	11,897	13,839	1,942	2.04	371	15.51	11.25	5	5
<u>Occupations Failing at least 1 of 3 Criteria</u>										
172171	Petroleum Engineers	88	86	(2)	-0.28	2	73.83	39.12	5	5
251043	Forestry & Conservation Teachers, Postsecondary	90	109	19	2.64	5	50.68	33.77	2	5
251053	Environmental Science Teachers, Postsecondary	102	121	19	2.33	5	41.43	24.31	2	4
172161	Nuclear Engineers	271	246	(25)	-1.15	6	41.05	32.16	5	5
251122	Communications Teachers, Postsecondary	899	1,089	190	2.64	47	37.35	22.82	2	4
172041	Chemical Engineers	414	443	29	0.88	11	36.72	24.55	5	5
231022	Arbitrators, Mediators, and Conciliators	613	797	184	3.75	39	36.47	15.79	4	4
152011	Actuaries	546	620	74	1.69	16	36.34	21.02	4	5
231021	Admin. Law Judges, Adjudicators, and Hearing Officers	437	434	(3)	-0.09	12	35.67	17.00	4	4
251193	Recreation & Fitness Studies Teachers, Postsecondary	550	665	115	2.61	29	35.01	16.27	3	5
172061	Computer Hardware Engineers	2,288	2,356	68	0.37	41	34.76	22.88	5	5
251124	Foreign Language & Literature Teachers, Postsecondary	859	1,045	186	2.71	45	33.76	18.55	2	4
192032	Materials Scientists	163	185	22	1.69	8	33.30	22.69	5	5
172131	Materials Engineers	603	584	(19)	-0.39	13	33.17	21.54	5	5
192042	Geoscientists, Except Hydrologists and Geographers	618	752	134	2.71	36	30.24	20.07	5	5
172112	Industrial Engineers	4,328	4,358	30	0.09	76	29.99	20.88	5	5
113061	Purchasing Managers	4,874	4,831	(43)	-0.11	153	29.78	17.24	4	5
194051	Nuclear Technicians	117	129	12	1.28	5	29.32	21.62	6	5

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
172111	Health and Safety Engineers, Except Mining	1,769	1,979	210	1.48	55	28.46	19.44	5	5
172151	Mining, Geological and Mining Safety Engineers	154	168	14	1.14	5	28.21	18.55	5	5
191031	Conservation Scientists	884	866	(18)	-0.25	29	27.17	17.69	5	5
192043	Hydrologists	314	376	62	2.47	18	26.90	18.96	5	5
172121	Marine Engineers and Naval Architects	324	342	18	0.69	9	26.57	20.15	5	5
252023	Vocational Education Teachers, Middle School	1,273	1,455	182	1.79	51	26.07	20.14	5	5
172031	Biomedical Engineers	457	590	133	3.64	25	25.71	13.33	5	5
193051	Urban and Regional Planners	2,147	2,478	331	1.93	93	25.68	17.56	3	4
119071	Gaming Managers	82	98	16	2.44	4	25.51	15.59	4	4
131061	Emergency Management Specialists	484	550	66	1.70	22	24.53	15.02	8	5
259011	Audio-Visual Collections Specialists	1,327	1,521	194	1.83	43	23.54	16.35	10	5
131021	Purchasing Agents and Buyers, Farm Products	962	1,133	171	2.22	40	23.54	11.78	8	5
172021	Agricultural Engineers	135	162	27	2.50	6	22.20	13.69	5	5
259021	Farm and Home Management Advisors	1,299	1,374	75	0.72	28	21.40	9.46	5	5
191032	Foresters	346	356	10	0.36	12	21.02	15.41	5	5
152041	Statisticians	770	835	65	1.06	18	20.18	12.79	3	5
211013	Marriage and Family Therapists	998	1,228	230	2.88	48	20.08	12.93	3	5
171021	Cartographers and Photogrammetrists	358	415	57	1.99	18	17.67	10.50	5	5
299091	Athletic Trainers	360	381	21	0.73	12	17.45	12.45	5	5
291125	Recreational Therapists	1,069	1,199	130	1.52	42	15.02	9.88	5	5
212011	Clergy	9,894	12,227	2,333	2.95	546	14.75	8.24	3	4
253021	Self-Enrichment Education Teachers	9,904	12,205	2,301	2.90	381	14.36	7.82	8	5
194021	Biological Technicians	1,079	1,170	91	1.05	36	14.19	10.63	6	5
111031	Legislators	1,493	1,679	186	1.56	69	14.02	6.57	4	4
212021	Directors, Religious Activities and Education	11,468	14,280	2,812	3.07	535	13.94	8.50	5	5
194041	Geological and Petroleum Technicians	224	273	49	2.73	11	13.72	9.80	6	5
339031	Gaming Surveillance Officers and Gaming Investigators	293	303	10	0.43	9	13.43	8.10	10	5
194011	Agricultural and Food Science Technicians	614	784	170	3.46	35	12.95	9.92	6	5
252011	Preschool Teachers, Except Special Education	20,214	22,650	2,436	1.51	548	10.12	7.10	5	5

Source: Florida Agency for Workforce Innovation, Labor Market Statistics
Florida Employment Forecast

University Level Occupations Requiring an Bachelor's Degree

**Sorted by Mean Wage
Table 2a**

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	Average		BLS Training Code	FL DOE Training Code
		2003	2011	Total	Annual %		2003 Wage Mean	2003 Wage Entry		
Code	Title									
399041	Residential Advisors	2,621	3,113	492	2.35	118	9.91	7.48	10	5
251191	Graduate Teaching Assistants	652	787	135	2.59	34	8.94	8.17	5	5

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code	
		2003	2011	Total	Annual %		Mean	Entry			
Code	Title										
111011	Chief Executives	22,440	26,183	3,743	2.09	1,143	70.50	34.13	4	4	
251041	Agricultural Sciences Teachers, Postsecondary	1,352	1,638	286	2.64	71	48.18	31.98	2	4	
119032	Education Administrators, Elementary and Secondary	9,933	11,295	1,362	1.71	419	41.07	31.04	4	4	
251071	Health Specialties Teachers, Postsecondary	7,293	8,851	1,558	2.67	383	57.02	26.43	2	5	
113021	Computer and Information Systems Managers	12,877	16,466	3,589	3.48	651	43.16	25.49	4	4	
172011	Aerospace Engineers	4,209	4,451	242	0.72	153	37.42	24.92	5	5	
251051	Earth and Space Sciences Teachers, Postsecondary	1,061	1,286	225	2.65	56	40.61	24.23	2	4	
151032	Computer Software Engineers, Systems Software	10,700	14,781	4,081	4.77	575	35.09	23.89	5	5	
172071	Electrical Engineers	5,269	5,820	551	1.31	163	31.97	23.51	5	5	
251042	Biological Science Teachers, Postsecondary	1,501	1,819	318	2.65	79	41.81	23.39	2	4	
151031	Computer Software Engineers, Applications	16,945	24,407	7,462	5.50	1,034	34.77	23.09	5	5	
172072	Electronics Engineers, Except Computer	6,379	7,022	643	1.26	194	33.22	22.67	5	5	
113031	Financial Managers	26,806	32,117	5,311	2.48	1,054	39.12	22.05	4	4	
291123	Physical Therapists	7,486	9,404	1,918	3.20	415	29.68	21.96	3	5	
171011	Architects, Except Landscape and Naval	7,868	8,827	959	1.52	164	31.15	21.34	5	5	
172051	Civil Engineers	11,992	12,952	960	1.00	304	31.21	21.18	5	5	
119033	Education Administrators, Postsecondary	3,475	3,917	442	1.59	142	33.99	21.14	4	4	
291071	Physician Assistants	3,649	5,108	1,459	5.00	254	33.20	20.98	5	5	
112021	Marketing Managers	10,673	13,263	2,590	3.03	468	39.87	20.70	4	4	
172141	Mechanical Engineers	5,662	6,117	455	1.00	219	30.85	20.53	5	5	
112022	Sales Managers	18,075	23,273	5,198	3.59	891	41.21	20.21	4	4	
252043	Special Education Teachers, Secondary School	7,049	8,665	1,616	2.87	286	27.00	20.08	5	5	
252032	Vocational Education Teachers, Secondary School	7,484	8,542	1,058	1.77	352	28.30	20.05	5	5	
112031	Public Relations Managers	4,176	5,483	1,307	3.91	222	38.50	20.02	4	4	
172081	Environmental Engineers	2,471	3,058	587	2.97	120	30.71	19.76	5	5	
251121	Art, Drama, and Music Teachers, Postsecondary	2,620	3,174	554	2.64	137	34.03	19.46	2	4	
151051	Computer Systems Analysts	21,015	25,965	4,950	2.94	793	29.31	19.36	5	5	
252041	Special Education Teachers, Preschool - Elementary	11,017	14,511	3,494	3.96	565	26.64	19.18	5	5	
252031	Secondary School Teachers, Exc. Special and Voc. Ed.	39,831	52,391	12,560	3.94	2,687	26.32	18.82	5	5	

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
419031	Sales Engineers	4,131	4,941	810	2.45	203	32.79	18.74	5	5
131111	Management Analysts	39,966	48,672	8,706	2.72	1,420	37.78	18.70	4	4
113040	Human Resources Managers	8,681	9,815	1,134	1.63	287	32.28	18.70	4	4
252022	Middle School Teachers, Exc. Special & Voc. Education	24,732	31,141	6,409	3.24	1,327	26.02	18.65	5	5
291111	Registered Nurses	152,206	193,790	41,584	3.42	8,060	23.12	18.12	5	5
252021	Elementary School Teachers, Except Special Education	65,724	83,843	18,119	3.45	3,657	25.36	18.08	5	5
291122	Occupational Therapists	4,798	6,079	1,281	3.34	272	25.61	18.06	5	5
151081	Network Systems and Data Communications Analysts	11,254	16,217	4,963	5.51	663	28.55	18.04	5	5
251123	English Language & Literature Teachers, Postsecondary	2,197	2,662	465	2.65	115	32.84	18.00	2	4
252012	Kindergarten Teachers, Except Special Education	10,546	13,404	2,858	3.39	479	25.90	17.85	5	5
252042	Special Education Teachers, Middle School	5,395	6,553	1,158	2.68	209	23.87	17.63	5	5
111021	General and Operations Managers	104,488	119,137	14,649	1.75	3,528	39.34	17.58	4	4
171012	Landscape Architects	2,387	2,851	464	2.43	71	27.34	17.33	5	5
112011	Advertising and Promotions Managers	4,329	5,499	1,170	3.38	204	33.10	17.19	4	4
132011	Accountants and Auditors	59,091	69,377	10,286	2.18	2,123	25.95	15.93	5	5
413031	Securities, and Financial Services Sales Agents	28,756	35,222	6,466	2.81	1,028	41.72	15.40	5	5
192031	Chemists	1,960	2,270	310	1.98	98	22.51	14.71	5	4
171022	Surveyors	3,321	3,491	170	0.64	121	23.03	14.51	5	5
113011	Administrative Services Managers	14,758	17,373	2,615	2.21	557	28.85	14.48	4	4
131051	Cost Estimators	11,524	13,399	1,875	2.03	478	22.61	14.43	5	5
131072	Compensation, Benefits, and Job Analysis Specialists	6,880	7,834	954	1.73	248	21.33	14.25	5	5
131023	Purchasing Agents, Except Farm Products & Trade	11,285	12,724	1,439	1.59	396	21.15	14.04	5	5
132021	Appraisers and Assessors of Real Estate	3,903	4,681	778	2.49	202	22.67	13.18	7	5
131073	Training and Development Specialists	14,168	16,536	2,368	2.09	558	20.50	13.12	5	5
273041	Editors	6,576	7,902	1,326	2.52	368	21.89	13.07	5	5
132071	Loan Counselors	3,219	3,961	742	2.88	153	19.94	12.81	5	5
132072	Loan Officers	12,814	14,758	1,944	1.90	489	25.29	12.76	5	5
131022	Wholesale and Retail Buyers, Except Farm Products	7,359	7,488	129	0.22	238	22.90	12.72	5	5
131071	Employment, Recruitment, and Placement Specialists	11,240	12,967	1,727	1.92	425	19.53	12.53	5	5

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	2003 Wage		Training Code	Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
211091	Health Educators	2,029	2,480	451	2.78	85	18.14	12.39	3	5
131121	Meeting and Convention Planners	2,211	2,742	531	3.00	105	18.15	12.08	5	5
132081	Tax Examiners, Collectors, and Revenue Agents	5,182	5,417	235	0.57	166	18.72	11.94	5	5
211021	Child, Family, and School Social Workers	11,897	13,839	1,942	2.04	371	15.51	11.25	5	5
194031	Chemical Technicians	1,402	1,640	238	2.12	61	15.55	10.55	6	5
339021	Private Detectives and Investigators	4,262	4,559	297	0.87	153	16.23	10.20	8	5
253011	Literacy, Remedial and GED Teachers and Instructors	5,124	6,225	1,101	2.69	186	17.68	10.09	5	5
273043	Writers and Authors	5,412	6,130	718	1.66	176	20.22	9.98	5	5
<u>Occupations Failing at least 1 of 3 Criteria</u>										
172171	Petroleum Engineers	88	86	(2)	-0.28	2	73.83	39.12	5	5
251043	Forestry & Conservation Teachers, Postsecondary	90	109	19	2.64	5	50.68	33.77	2	5
172161	Nuclear Engineers	271	246	(25)	-1.15	6	41.05	32.16	5	5
172041	Chemical Engineers	414	443	29	0.88	11	36.72	24.55	5	5
251053	Environmental Science Teachers, Postsecondary	102	121	19	2.33	5	41.43	24.31	2	4
172061	Computer Hardware Engineers	2,288	2,356	68	0.37	41	34.76	22.88	5	5
251122	Communications Teachers, Postsecondary	899	1,089	190	2.64	47	37.35	22.82	2	4
192032	Materials Scientists	163	185	22	1.69	8	33.30	22.69	5	5
194051	Nuclear Technicians	117	129	12	1.28	5	29.32	21.62	6	5
172131	Materials Engineers	603	584	(19)	-0.39	13	33.17	21.54	5	5
152011	Actuaries	546	620	74	1.69	16	36.34	21.02	4	5
172112	Industrial Engineers	4,328	4,358	30	0.09	76	29.99	20.88	5	5
172121	Marine Engineers and Naval Architects	324	342	18	0.69	9	26.57	20.15	5	5
252023	Vocational Education Teachers, Middle School	1,273	1,455	182	1.79	51	26.07	20.14	5	5
192042	Geoscientists, Except Hydrologists and Geographers	618	752	134	2.71	36	30.24	20.07	5	5
172111	Health and Safety Engineers, Except Mining	1,769	1,979	210	1.48	55	28.46	19.44	5	5
192043	Hydrologists	314	376	62	2.47	18	26.90	18.96	5	5
251124	Foreign Language & Literature Teachers, Postsecondary	859	1,045	186	2.71	45	33.76	18.55	2	4

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations

Requiring an Bachelor's Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual	2003 Wage		Training	Training
Code	Title	2003	2011	Total	Annual %	Openings	Mean	Entry	Code	Code
172151	Mining, Geological and Mining Safety Engineers	154	168	14	1.14	5	28.21	18.55	5	5
191031	Conservation Scientists	884	866	(18)	-0.25	29	27.17	17.69	5	5
193051	Urban and Regional Planners	2,147	2,478	331	1.93	93	25.68	17.56	3	4
113061	Purchasing Managers	4,874	4,831	(43)	-0.11	153	29.78	17.24	4	5
231021	Admin. Law Judges, Adjudicators, and Hearing Officers	437	434	(3)	-0.09	12	35.67	17.00	4	4
259011	Audio-Visual Collections Specialists	1,327	1,521	194	1.83	43	23.54	16.35	10	5
251193	Recreation & Fitness Studies Teachers, Postsecondary	550	665	115	2.61	29	35.01	16.27	3	5
231022	Arbitrators, Mediators, and Conciliators	613	797	184	3.75	39	36.47	15.79	4	4
119071	Gaming Managers	82	98	16	2.44	4	25.51	15.59	4	4
191032	Foresters	346	356	10	0.36	12	21.02	15.41	5	5
131061	Emergency Management Specialists	484	550	66	1.70	22	24.53	15.02	8	5
172021	Agricultural Engineers	135	162	27	2.50	6	22.20	13.69	5	5
172031	Biomedical Engineers	457	590	133	3.64	25	25.71	13.33	5	5
211013	Marriage and Family Therapists	998	1,228	230	2.88	48	20.08	12.93	3	5
152041	Statisticians	770	835	65	1.06	18	20.18	12.79	3	5
299091	Athletic Trainers	360	381	21	0.73	12	17.45	12.45	5	5
131021	Purchasing Agents and Buyers, Farm Products	962	1,133	171	2.22	40	23.54	11.78	8	5
194021	Biological Technicians	1,079	1,170	91	1.05	36	14.19	10.63	6	5
171021	Cartographers and Photogrammetrists	358	415	57	1.99	18	17.67	10.50	5	5
194011	Agricultural and Food Science Technicians	614	784	170	3.46	35	12.95	9.92	6	5
291125	Recreational Therapists	1,069	1,199	130	1.52	42	15.02	9.88	5	5
194041	Geological and Petroleum Technicians	224	273	49	2.73	11	13.72	9.80	6	5
259021	Farm and Home Management Advisors	1,299	1,374	75	0.72	28	21.40	9.46	5	5
212021	Directors, Religious Activities and Education	11,468	14,280	2,812	3.07	535	13.94	8.50	5	5
212011	Clergy	9,894	12,227	2,333	2.95	546	14.75	8.24	3	4
251191	Graduate Teaching Assistants	652	787	135	2.59	34	8.94	8.17	5	5
339031	Gaming Surveillance Officers and Gaming Investigators	293	303	10	0.43	9	13.43	8.10	10	5
253021	Self-Enrichment Education Teachers	9,904	12,205	2,301	2.90	381	14.36	7.82	8	5
399041	Residential Advisors	2,621	3,113	492	2.35	118	9.91	7.48	10	5

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations Requiring an Bachelor's Degree

**Sorted by Entry Wage
Table 2b**

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 4-5 (work experience plus a bachelor's degree, or just a bachelor's degree)
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$32,000 (\$15.38/hourly)

Occupation		Employment		Change		Annual Openings	Average		BLS Training Code	FL DOE Training Code
		2003	2011	Total	Annual %		2003 Wage Mean	2003 Wage Entry		
Code	Title									
252011	Preschool Teachers, Except Special Education	20,214	22,650	2,436	1.51	548	10.12	7.10	5	5
111031	Legislators	1,493	1,679	186	1.56	69	14.02	6.57	4	4

2004 Workforce Estimating Conference Potential Screening Criteria

Advanced Degree Tables

**2004 Workforce Estimating Conference Potential Screening Criteria
Summary Table
Advanced Degrees**

Table	Education Level	Occupational Characteristic	Criteria	Occupational Count		
				Pass	Fail	Total
1	Advanced Degree	Training Code	DOE adjusted Training Code 1-3 (1st Professional, Ph.D., Masters)	68	709	777
2a	Advanced Degree (mean wage sort)	Openings/Growth Rate Wage	50 annual openings and above the over-all average growth (1.96%) or 100 annual openings with any positive growth..... and Mean Wage equal to or greater than \$50,000 annually (\$24.04/hourly)	27	41	68
2b	Advanced Degree (entry wage sort)	Openings/Growth Rate Wage	50 annual openings and above the over-all average growth (1.96%) or 100 annual openings with any positive growth..... and Mean Wage equal to or greater than \$50,000 annually (\$24.04/hourly)	27	41	68

Other Screening Results

Advanced Degree	Growth Rate	Above the over-all average growth for all occupations (1.96/year)	50	18	68
Advanced Degree	Openings/Growth Rate	50 annual openings and above the over-all average growth (1.96%)	23	45	68
Advanced Degree	Openings/Growth Rate	100 annual openings with any positive growth	24	44	68
Advanced Degree	Openings/Growth Rate	50 annual openings and above the over-all average growth (1.96%) or 100 annual openings with any positive growth	31	37	68
Advanced Degree	Wage	Mean Wage equal to or greater than \$50,000 annually (24.04/hourly)	56	12	68

University Level Occupations

Requiring an Advanced Degree

Sorted by Occupational Code

Table 1

Proposed Criteria:

1 FLDOE Adjusted Training Codes 1-3

Occupation Code	Title	Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
119041	Engineering Managers	8,732	9,481	749	1.07	233	47.58	30.42	4	3
119121	Natural Sciences Managers	1,117	1,195	78	0.87	29	41.47	27.33	4	3
152021	Mathematicians	97	92	(5)	-0.64	1	34.24	21.74	3	3
152031	Operations Research Analysts	4,027	4,083	56	0.17	136	27.38	17.38	3	3
191021	Biochemists and Biophysicists	208	265	57	3.43	14	28.35	18.83	2	2
191022	Microbiologists	406	499	93	2.86	25	22.42	13.06	2	2
191023	Zoologists and Wildlife Biologists	568	625	57	1.25	27	23.17	15.41	2	2
191041	Epidemiologists	80	94	14	2.19	4	26.76	21.25	2	2
191042	Medical Scientists, Except Epidemiologists	974	1,194	220	2.82	48	40.42	22.73	2	2
192012	Physicists	229	246	17	0.93	10	41.75	28.48	2	2
192021	Atmospheric and Space Scientists	269	291	22	1.02	11	33.64	21.42	5	3
193011	Economists	538	614	76	1.77	21	35.52	20.20	5	3
193021	Market Research Analysts	3,730	4,476	746	2.50	172	26.13	15.66	5	3
193022	Survey Researchers	1,022	1,284	262	3.20	54	14.41	10.37	5	3
193031	Clinical, Counseling, and School Psychologists	6,684	7,712	1,028	1.92	279	25.31	15.62	3	3
193032	Industrial-Organizational Psychologists	261	325	64	3.07	14	36.12	26.03	3	3
193041	Sociologists	20	24	4	2.50	1	31.88	21.08	3	3
193091	Anthropologists and Archeologists	209	255	46	2.75	11	15.82	12.03	3	3
193093	Historians	26	29	3	1.44	1	23.72	14.45	3	3
193094	Political Scientists	30	28	(2)	-0.83	1	38.70	21.17	3	3
211011	Substance Abuse and Behavioral Disorder Counselors	2,662	3,369	707	3.32	139	14.52	9.77	3	3
211012	Educational, Vocational, and School Counselors	20,176	24,783	4,607	2.85	965	22.58	15.09	3	3
211014	Mental Health Counselors	4,271	4,881	610	1.79	161	15.29	10.80	3	3
211015	Rehabilitation Counselors	6,114	6,962	848	1.73	227	13.26	8.88	3	3
211022	Medical and Public Health Social Workers	5,423	7,076	1,653	3.81	263	17.72	12.47	5	3
231011	Lawyers	42,701	49,407	6,706	1.96	1,114	52.11	23.09	1	2
231023	Judges, Magistrate Judges, and Magistrates	977	908	(69)	-0.88	28	61.89	59.30	4	1
251011	Business Teachers, Postsecondary	5,096	6,178	1,082	2.65	267	42.96	22.74	2	2
251021	Computer Science Teachers, Postsecondary	1,549	1,888	339	2.74	82	38.52	20.71	2	3
251022	Mathematical Science Teachers, Postsecondary	2,042	2,476	434	2.66	107	35.96	19.78	2	3
251031	Architecture Teachers, Postsecondary	403	489	86	2.67	21	44.03	28.95	2	3
251032	Engineering Teachers, Postsecondary	2,686	3,254	568	2.64	141	48.20	28.81	2	3

University Level Occupations

Requiring an Advanced Degree

Sorted by Occupational Code

Table 1

Proposed Criteria:

1 FLDOE Adjusted Training Codes 1-3

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
Code	Title	2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
251052	Chemistry Teachers, Postsecondary	648	785	137	2.64	34	43.64	26.70	2	3
251054	Physics Teachers, Postsecondary	576	698	122	2.65	30	44.92	28.32	2	3
251061	Anthropology and Archeology Teachers, Postsecondary	189	229	40	2.65	10	42.83	27.76	2	3
251062	Ethnic, & Cultural Studies Teachers, Postsecondary	100	122	22	2.75	5	34.36	22.39	2	3
251063	Economics Teachers, Postsecondary	451	547	96	2.66	24	48.75	29.58	2	2
251064	Geography Teachers, Postsecondary	211	256	45	2.67	11	40.85	26.04	2	3
251065	Political Science Teachers, Postsecondary	646	783	137	2.65	34	41.20	25.09	2	3
251066	Psychology Teachers, Postsecondary	1,599	1,937	338	2.64	84	41.62	24.69	2	2
251067	Sociology Teachers, Postsecondary	539	653	114	2.64	28	37.03	18.85	2	3
251072	Nursing Instructors and Teachers, Postsecondary	1,240	1,502	262	2.64	65	35.44	23.65	3	3
251081	Education Teachers, Postsecondary	2,623	3,181	558	2.66	138	36.83	20.61	2	3
251082	Library Science Teachers, Postsecondary	121	147	26	2.69	6	38.16	21.78	2	3
251111	Criminal Justice & Law Enforcement Teachers, Postsecondary	855	1,037	182	2.66	45	26.12	11.90	2	3
251112	Law Teachers, Postsecondary	516	626	110	2.66	27	51.38	22.87	2	2
251113	Social Work Teachers, Postsecondary	390	472	82	2.63	20	41.46	24.20	2	3
251125	History Teachers, Postsecondary	631	765	134	2.65	33	39.36	24.09	2	3
251126	Philosophy and Religion Teachers, Postsecondary	621	752	131	2.64	33	36.64	22.57	2	3
251192	Home Economics Teachers, Postsecondary	152	183	31	2.55	8	34.62	10.49	2	3
254010	Archivists, Curators, and Museum Technicians	817	1,013	196	3.00	40	19.64	10.78	3	3
254021	Librarians	5,588	6,074	486	1.09	174	21.89	15.36	3	3
291011	Chiropractors	3,228	3,635	407	1.58	108	31.59	11.73	1	1
291020	Dentists	9,525	10,555	1,030	1.35	338	65.20	29.55	1	1
291041	Optometrists	1,529	1,773	244	1.99	57	55.85	34.23	1	1
291051	Pharmacists	14,429	18,199	3,770	3.27	875	38.99	31.66	1	2
291061	Anesthesiologists	960	1,154	194	2.53	38	84.56	46.89	1	1
291062	Family and General Practitioners	12,472	14,742	2,270	2.28	460	66.49	29.27	1	1
291063	Internists, General	3,539	4,251	712	2.51	139	88.98	64.05	1	1
291064	Obstetricians and Gynecologists	1,115	1,335	220	2.47	43	92.58	70.69	1	1
291065	Pediatricians, General	2,279	2,728	449	2.46	88	77.37	51.73	1	1
291066	Psychiatrists	510	640	130	3.19	23	67.14	43.30	1	1
291067	Surgeons	3,125	3,744	619	2.48	121	93.35	NA	1	1
291069	Physicians and Surgeons, NEC	6,602	7,916	1,314	2.49	257	67.65	43.28	1	1

University Level Occupations

Requiring an Advanced Degree

Sorted by Occupational Code

Table 1

Proposed Criteria:

1 FLDOE Adjusted Training Codes 1-3

Occupation		Employment		Change		Average Annual Openings	2003 Wage		BLS Training Code	FL DOE Training Code
		2003	2011	Total	Annual %		Mean	Entry		
Code	Title									
291081	Podiatrists	536	616	80	1.87	19	49.99	20.23	1	1
291121	Audiologists	1,115	1,449	334	3.74	68	24.42	16.79	3	3
291127	Speech and Language Pathologists	5,507	7,225	1,718	3.90	342	25.14	17.40	3	3
291131	Veterinarians	4,435	5,333	898	2.53	189	38.11	21.90	1	1

NA - Not available for this occupation

University Level Occupations

Requiring an Advanced Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 1-3
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$50,000 (\$24.04/hour)

Occupation		Employment		Change		Average Annual	2003 Wage		BLS Training	FL DOE Training
Code	Title	2003	2011	Total	Annual %	Openings	Mean	Entry	Code	Code
291067	Surgeons	3,125	3,744	619	2.48	121	93.35	NA	1	1
291064	Obstetricians and Gynecologists	1,115	1,335	220	2.47	43	92.58	70.69	1	1
291063	Internists, General	3,539	4,251	712	2.51	139	88.98	64.05	1	1
291061	Anesthesiologists	960	1,154	194	2.53	38	84.56	46.89	1	1
291065	Pediatricians, General	2,279	2,728	449	2.46	88	77.37	51.73	1	1
291069	Physicians and Surgeons, NEC	6,602	7,916	1,314	2.49	257	67.65	43.28	1	1
291062	Family and General Practitioners	12,472	14,742	2,270	2.28	460	66.49	29.27	1	1
291020	Dentists	9,525	10,555	1,030	1.35	338	65.20	29.55	1	1
291041	Optometrists	1,529	1,773	244	1.99	57	55.85	34.23	1	1
231011	Lawyers	42,701	49,407	6,706	1.96	1,114	52.11	23.09	1	2
251112	Law Teachers, Postsecondary	516	626	110	2.66	27	51.38	22.87	2	2
251032	Engineering Teachers, Postsecondary	2,686	3,254	568	2.64	141	48.20	28.81	2	3
119041	Engineering Managers	8,732	9,481	749	1.07	233	47.58	30.42	4	3
251011	Business Teachers, Postsecondary	5,096	6,178	1,082	2.65	267	42.96	22.74	2	2
251066	Psychology Teachers, Postsecondary	1,599	1,937	338	2.64	84	41.62	24.69	2	2
291051	Pharmacists	14,429	18,199	3,770	3.27	875	38.99	31.66	1	2
251021	Computer Science Teachers, Postsecondary	1,549	1,888	339	2.74	82	38.52	20.71	2	3
291131	Veterinarians	4,435	5,333	898	2.53	189	38.11	21.90	1	1
251081	Education Teachers, Postsecondary	2,623	3,181	558	2.66	138	36.83	20.61	2	3
251022	Mathematical Science Teachers, Postsecondary	2,042	2,476	434	2.66	107	35.96	19.78	2	3
251072	Nursing Instructors and Teachers, Postsecondary	1,240	1,502	262	2.64	65	35.44	23.65	3	3
291011	Chiropractors	3,228	3,635	407	1.58	108	31.59	11.73	1	1
152031	Operations Research Analysts	4,027	4,083	56	0.17	136	27.38	17.38	3	3
193021	Market Research Analysts	3,730	4,476	746	2.50	172	26.13	15.66	5	3
193031	Clinical, Counseling, and School Psychologists	6,684	7,712	1,028	1.92	279	25.31	15.62	3	3
291127	Speech and Language Pathologists	5,507	7,225	1,718	3.90	342	25.14	17.40	3	3
291121	Audiologists	1,115	1,449	334	3.74	68	24.42	16.79	3	3

Source: Florida Agency for Workforce Innovation, Labor Market Statistics

Florida Employment Forecast

University Level Occupations

Requiring an Advanced Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 1-3
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$50,000 (\$24.04/hour)

Occupation		Employment		Change		Average Annual	2003 Wage		BLS Training	FL DOE Training
Code	Title	2003	2011	Total	Annual %	Openings	Mean	Entry	Code	Code
<u>Occupations Failing at least 1 of 3 Criteria</u>										
291066	Psychiatrists	510	640	130	3.19	23	67.14	43.30	1	1
231023	Judges, Magistrate Judges, and Magistrates	977	908	(69)	-0.88	28	61.89	59.30	4	1
291081	Podiatrists	536	616	80	1.87	19	49.99	20.23	1	1
251063	Economics Teachers, Postsecondary	451	547	96	2.66	24	48.75	29.58	2	2
251054	Physics Teachers, Postsecondary	576	698	122	2.65	30	44.92	28.32	2	3
251031	Architecture Teachers, Postsecondary	403	489	86	2.67	21	44.03	28.95	2	3
251052	Chemistry Teachers, Postsecondary	648	785	137	2.64	34	43.64	26.70	2	3
251061	Anthropology and Archeology Teachers, Postsecondary	189	229	40	2.65	10	42.83	27.76	2	3
192012	Physicists	229	246	17	0.93	10	41.75	28.48	2	2
119121	Natural Sciences Managers	1,117	1,195	78	0.87	29	41.47	27.33	4	3
251113	Social Work Teachers, Postsecondary	390	472	82	2.63	20	41.46	24.20	2	3
251065	Political Science Teachers, Postsecondary	646	783	137	2.65	34	41.20	25.09	2	3
251064	Geography Teachers, Postsecondary	211	256	45	2.67	11	40.85	26.04	2	3
191042	Medical Scientists, Except Epidemiologists	974	1,194	220	2.82	48	40.42	22.73	2	2
251125	History Teachers, Postsecondary	631	765	134	2.65	33	39.36	24.09	2	3
193094	Political Scientists	30	28	(2)	-0.83	1	38.70	21.17	3	3
251082	Library Science Teachers, Postsecondary	121	147	26	2.69	6	38.16	21.78	2	3
251067	Sociology Teachers, Postsecondary	539	653	114	2.64	28	37.03	18.85	2	3
251126	Philosophy and Religion Teachers, Postsecondary	621	752	131	2.64	33	36.64	22.57	2	3
193032	Industrial-Organizational Psychologists	261	325	64	3.07	14	36.12	26.03	3	3
193011	Economists	538	614	76	1.77	21	35.52	20.20	5	3
251192	Home Economics Teachers, Postsecondary	152	183	31	2.55	8	34.62	10.49	2	3
251062	Ethnic, & Cultural Studies Teachers, Postsecondary	100	122	22	2.75	5	34.36	22.39	2	3
152021	Mathematicians	97	92	(5)	-0.64	1	34.24	21.74	3	3
192021	Atmospheric and Space Scientists	269	291	22	1.02	11	33.64	21.42	5	3

University Level Occupations

Requiring an Advanced Degree

Sorted by Mean Wage

Table 2a

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 1-3
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$50,000 (\$24.04/hour)

Occupation		Employment		Change		Average Annual Openings	Average 2003 Wage		BLS Training Code	FL DOE Training Code
Code	Title	2003	2011	Total	Annual %		Mean	Entry		
193041	Sociologists	20	24	4	2.50	1	31.88	21.08	3	3
191021	Biochemists and Biophysicists	208	265	57	3.43	14	28.35	18.83	2	2
191041	Epidemiologists	80	94	14	2.19	4	26.76	21.25	2	2
251111	Criminal Justice & Law Enforcement Teachers, Postsecondary	855	1,037	182	2.66	45	26.12	11.90	2	3
193093	Historians	26	29	3	1.44	1	23.72	14.45	3	3
191023	Zoologists and Wildlife Biologists	568	625	57	1.25	27	23.17	15.41	2	2
211012	Educational, Vocational, and School Counselors	20,176	24,783	4,607	2.85	965	22.58	15.09	3	3
191022	Microbiologists	406	499	93	2.86	25	22.42	13.06	2	2
254021	Librarians	5,588	6,074	486	1.09	174	21.89	15.36	3	3
254010	Archivists, Curators, and Museum Technicians	817	1,013	196	3.00	40	19.64	10.78	3	3
211022	Medical and Public Health Social Workers	5,423	7,076	1,653	3.81	263	17.72	12.47	5	3
193091	Anthropologists and Archeologists	209	255	46	2.75	11	15.82	12.03	3	3
211014	Mental Health Counselors	4,271	4,881	610	1.79	161	15.29	10.80	3	3
211011	Substance Abuse and Behavioral Disorder Counselors	2,662	3,369	707	3.32	139	14.52	9.77	3	3
193022	Survey Researchers	1,022	1,284	262	3.20	54	14.41	10.37	5	3
211015	Rehabilitation Counselors	6,114	6,962	848	1.73	227	13.26	8.88	3	3

NA - Not available for this occupation

University Level Occupations

Requiring an Advanced Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 1-3
- 2 50 annual openings and above the over-all average growth rate (1.96%) or
100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$50,000 (\$24.04/hour)

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
291064	Obstetricians and Gynecologists	1,115	1,335	220	2.47	43	92.58	70.69	1	1
291063	Internists, General	3,539	4,251	712	2.51	139	88.98	64.05	1	1
291065	Pediatricians, General	2,279	2,728	449	2.46	88	77.37	51.73	1	1
291061	Anesthesiologists	960	1,154	194	2.53	38	84.56	46.89	1	1
291069	Physicians and Surgeons, NEC	6,602	7,916	1,314	2.49	257	67.65	43.28	1	1
291041	Optometrists	1,529	1,773	244	1.99	57	55.85	34.23	1	1
291051	Pharmacists	14,429	18,199	3,770	3.27	875	38.99	31.66	1	2
119041	Engineering Managers	8,732	9,481	749	1.07	233	47.58	30.42	4	3
291020	Dentists	9,525	10,555	1,030	1.35	338	65.20	29.55	1	1
291062	Family and General Practitioners	12,472	14,742	2,270	2.28	460	66.49	29.27	1	1
251032	Engineering Teachers, Postsecondary	2,686	3,254	568	2.64	141	48.20	28.81	2	3
251066	Psychology Teachers, Postsecondary	1,599	1,937	338	2.64	84	41.62	24.69	2	2
251072	Nursing Instructors and Teachers, Postsecondary	1,240	1,502	262	2.64	65	35.44	23.65	3	3
231011	Lawyers	42,701	49,407	6,706	1.96	1,114	52.11	23.09	1	2
251112	Law Teachers, Postsecondary	516	626	110	2.66	27	51.38	22.87	2	2
251011	Business Teachers, Postsecondary	5,096	6,178	1,082	2.65	267	42.96	22.74	2	2
291131	Veterinarians	4,435	5,333	898	2.53	189	38.11	21.90	1	1
251021	Computer Science Teachers, Postsecondary	1,549	1,888	339	2.74	82	38.52	20.71	2	3
251081	Education Teachers, Postsecondary	2,623	3,181	558	2.66	138	36.83	20.61	2	3
251022	Mathematical Science Teachers, Postsecondary	2,042	2,476	434	2.66	107	35.96	19.78	2	3
291127	Speech and Language Pathologists	5,507	7,225	1,718	3.90	342	25.14	17.40	3	3
152031	Operations Research Analysts	4,027	4,083	56	0.17	136	27.38	17.38	3	3
291121	Audiologists	1,115	1,449	334	3.74	68	24.42	16.79	3	3
193021	Market Research Analysts	3,730	4,476	746	2.50	172	26.13	15.66	5	3
193031	Clinical, Counseling, and School Psychologists	6,684	7,712	1,028	1.92	279	25.31	15.62	3	3
291011	Chiropractors	3,228	3,635	407	1.58	108	31.59	11.73	1	1
291067	Surgeons	3,125	3,744	619	2.48	121	93.35	NA	1	1

University Level Occupations

Requiring an Advanced Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 1-3
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$50,000 (\$24.04/hour)

Occupation		Employment		Change		Average Annual	2003 Wage		BLS Training	FL DOE Training
Code	Title	2003	2011	Total	Annual %	Openings	Mean	Entry	Code	Code
<u>Occupations Failing at least 1 of 3 Criteria</u>										
231023	Judges, Magistrate Judges, and Magistrates	977	908	(69)	-0.88	28	61.89	59.30	4	1
291066	Psychiatrists	510	640	130	3.19	23	67.14	43.30	1	1
251063	Economics Teachers, Postsecondary	451	547	96	2.66	24	48.75	29.58	2	2
251031	Architecture Teachers, Postsecondary	403	489	86	2.67	21	44.03	28.95	2	3
192012	Physicists	229	246	17	0.93	10	41.75	28.48	2	2
251054	Physics Teachers, Postsecondary	576	698	122	2.65	30	44.92	28.32	2	3
251061	Anthropology and Archeology Teachers, Postsecondary	189	229	40	2.65	10	42.83	27.76	2	3
119121	Natural Sciences Managers	1,117	1,195	78	0.87	29	41.47	27.33	4	3
251052	Chemistry Teachers, Postsecondary	648	785	137	2.64	34	43.64	26.70	2	3
251064	Geography Teachers, Postsecondary	211	256	45	2.67	11	40.85	26.04	2	3
193032	Industrial-Organizational Psychologists	261	325	64	3.07	14	36.12	26.03	3	3
251065	Political Science Teachers, Postsecondary	646	783	137	2.65	34	41.20	25.09	2	3
251113	Social Work Teachers, Postsecondary	390	472	82	2.63	20	41.46	24.20	2	3
251125	History Teachers, Postsecondary	631	765	134	2.65	33	39.36	24.09	2	3
191042	Medical Scientists, Except Epidemiologists	974	1,194	220	2.82	48	40.42	22.73	2	2
251126	Philosophy and Religion Teachers, Postsecondary	621	752	131	2.64	33	36.64	22.57	2	3
251062	Ethnic, & Cultural Studies Teachers, Postsecondary	100	122	22	2.75	5	34.36	22.39	2	3
251082	Library Science Teachers, Postsecondary	121	147	26	2.69	6	38.16	21.78	2	3
152021	Mathematicians	97	92	(5)	-0.64	1	34.24	21.74	3	3
192021	Atmospheric and Space Scientists	269	291	22	1.02	11	33.64	21.42	5	3
191041	Epidemiologists	80	94	14	2.19	4	26.76	21.25	2	2
193094	Political Scientists	30	28	(2)	-0.83	1	38.70	21.17	3	3
193041	Sociologists	20	24	4	2.50	1	31.88	21.08	3	3
291081	Podiatrists	536	616	80	1.87	19	49.99	20.23	1	1
193011	Economists	538	614	76	1.77	21	35.52	20.20	5	3
251067	Sociology Teachers, Postsecondary	539	653	114	2.64	28	37.03	18.85	2	3

University Level Occupations

Requiring an Advanced Degree

Sorted by Entry Wage

Table 2b

Proposed Criteria:

- 1 FLDOE Adjusted Training Codes 1-3
- 2 50 annual openings and above the over-all average growth rate (1.96%) or 100 annual openings with any positive growth....and
- 3 Mean Wage equal to or greater than \$50,000 (\$24.04/hour)

Occupation		Employment		Change		Average	2003 Wage		BLS	FL DOE
		2003	2011	Total	Annual %	Annual Openings	Mean	Entry	Training Code	Training Code
Code	Title									
191021	Biochemists and Biophysicists	208	265	57	3.43	14	28.35	18.83	2	2
191023	Zoologists and Wildlife Biologists	568	625	57	1.25	27	23.17	15.41	2	2
254021	Librarians	5,588	6,074	486	1.09	174	21.89	15.36	3	3
211012	Educational, Vocational, and School Counselors	20,176	24,783	4,607	2.85	965	22.58	15.09	3	3
193093	Historians	26	29	3	1.44	1	23.72	14.45	3	3
191022	Microbiologists	406	499	93	2.86	25	22.42	13.06	2	2
211022	Medical and Public Health Social Workers	5,423	7,076	1,653	3.81	263	17.72	12.47	5	3
193091	Anthropologists and Archeologists	209	255	46	2.75	11	15.82	12.03	3	3
251111	Criminal Justice & Law Enforcement Teachers, Postsecondary	855	1,037	182	2.66	45	26.12	11.90	2	3
211014	Mental Health Counselors	4,271	4,881	610	1.79	161	15.29	10.80	3	3
254010	Archivists, Curators, and Museum Technicians	817	1,013	196	3.00	40	19.64	10.78	3	3
251192	Home Economics Teachers, Postsecondary	152	183	31	2.55	8	34.62	10.49	2	3
193022	Survey Researchers	1,022	1,284	262	3.20	54	14.41	10.37	5	3
211011	Substance Abuse and Behavioral Disorder Counselors	2,662	3,369	707	3.32	139	14.52	9.77	3	3
211015	Rehabilitation Counselors	6,114	6,962	848	1.73	227	13.26	8.88	3	3

NA - Not available for this occupation