

2004 –2014 Occupational Projections

Occupational Title	Minimum Education Requirements	** Total Annual Demand	1 <sup>st</sup> Quarter 2006 Average Hourly Wage
Refuse and Recyclable Material Collectors	Short-term Tng. & Exp.	50	\$11.16
Industrial Truck and Tractor Operators	Short-term Tng. & Exp.	190	12.02
Helpers--Production Workers	Short-term Tng. & Exp.	270	10.19
Packaging and Filling Machine Operators and Tenders	Short-term Tng. & Exp.	60	10.53
Paper Goods Machine Setters, Operators, and Tenders	Mod.-term Tng. & Exp.	50	\$19.28
Inspectors, Testers, Sorters, Samplers, and Weighers	Mod.-term Tng. & Exp.	140	15.53
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	Mod.-term Tng. & Exp.	20	12.56
Mixing and Blending Machine Setters, Operators, and Tenders	Mod.-term Tng. & Exp.	30	14.35
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	Mod.-term Tng. & Exp.	20	17.37
Chemical Equipment Operators and Tenders	Mod.-term Tng. & Exp.	70	22.10
Woodworking Machine Setters, Operators, and Tenders, Except Sawing	Mod.-term Tng. & Exp.	20	12.77
Sawing Machine Setters, Operators, and Tenders, Wood	Mod.-term Tng. & Exp.	30	11.02
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	Mod.-term Tng. & Exp.	30	17.72
Tenders, Metal and Plastic	Mod.-term Tng. & Exp.	30	18.07
Team Assemblers	Mod.-term Tng. & Exp.	120	12.66
Structural Metal Fabricators and Fitters	Mod.-term Tng. & Exp.	80	15.32
Petroleum Pump System Operators, Refinery Operators, and Gaugers	Long-term Tng. & Exp.	180	\$23.50
Chemical Plant and System Operators	Long-term Tng. & Exp.	210	25.66
Water and Liquid Waste Treatment Plant and System Operators	Long-term Tng. & Exp.	100	12.77
Machinists	Long-term Tng. & Exp.	140	17.07
Maintenance Workers, Machinery	Long-term Tng. & Exp.	60	14.93
Maintenance and Repair Workers, General	Long-term Tng. & Exp.	650	13.36
Boilermakers	Long-term Tng. & Exp.	40	19.35
Welders, Cutters, Solderers, and Brazers	Postsecondary voc.	620	\$16.57
Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary voc.	30	22.43
Electrical and Electronic Engineering Technicians	Associate degree	50	\$23.12
Purchasing Agents, Except Wholesale, Retail, and Farm Products	Bachelor's degree	90	\$20.17
Industrial Production Managers	Bachelor's degree	40	34.73

\*\*Total Annual Demand = Demand in the occupation as a function of replacement demand (retirements + turnover) + new growth.

**Occupations in the Spotlight**   
**Welders, Cutters, Solderers, and Brazers**



Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

- ◆ Certificate is available
- ◆ Knowledge of machines and tools
- ◆ Knowledge of raw materials, production processes, quality control, and other techniques for manufacturing and distribution of goods
- ◆ Knowledge of materials, methods, and tools involved in construction or repair of structures and roads.

**Required WorkKeys® Scores:**

AM LI RI  
 3 4 4

**Cabinetmakers and Bench Carpenters**



Cut, shape, and assemble wooden articles or set up and operate a variety of woodworking machines.

- ◆ Knowledge of materials, methods, and the tools involved in construction or repair of structures and roads
- ◆ Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

**Required WorkKeys® Scores:**

AM LI RI  
 3 1 3

AM = Applied Mathematics  
 LI = Locating Information  
 RI = Reading for Information

**WorkKeys® assessments** give students and workers reliable, relevant information about workplace skill levels. Combined with information about skill levels required for jobs, assessments information can help students make better career and educational decisions. Louisiana uses three WorkKeys® assessments as the foundation for awarding career readiness certificates. For more information, contact the Workforce Education and Training Office at the Louisiana Board of Regents (225-342-4253).

**LOUISIANA Opportunities in**



*This diverse Career Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services.*

**FASTEST GROWING JOBS**

- 👤 Maintenance and Repair Workers, General
- 👤 Welders, Cutters, Solderers, and Brazers
- 👤 Helpers--Production Workers
- 👤 Chemical Plant and System Operators
- 👤 Industrial Truck and Tractor Operators
- 👤 Petroleum Pump System Operators, Refinery Operators, and Gaugers

**Louisiana Department of Labor Office of Occupational Information Services**

P.O. Box 94094  
 Baton Rouge, LA 70804-9094  
**Phone (225) 342-3141**  
**TDD Toll Free (866) 277-9317**  
**FAX (225) 342-9192**

"This document was produced as a collaborative endeavor between the Louisiana Departments of Labor, Education and the Board of Regents".

*An Equal Opportunity Employer  
 Auxiliary Aids and Services are available upon request to individuals with disabilities*

## Reference Center:

Louisiana Department of Labor -  
<http://www.LAWORKS.net>

Occupational Information – go to Career Exploration  
<https://www.voshost.com/default.asp>

Louisiana Employment Outlook -  
[http://www.laworks.net/LaborMarketInfo/LMI\\_employmentprojections.asp](http://www.laworks.net/LaborMarketInfo/LMI_employmentprojections.asp)

Louisiana Technical Colleges -  
<http://www.ltc.edu/home.asp>

Financial Aid-  
<http://www.osfa.state.la.us/>

Louisiana Board of Regents-  
<http://www.regents.state.la.us>

Louisiana Community & Technical College System  
<http://www.lctcs.net/>

ACT  
<http://www.act.org>

National Career Clusters  
<http://www.careerclusters.org>



*This brochure is designed to provide assistance to students as they prepare to make decisions about course selection, their career options and future plans.*

**The Career Options Law (Act 1124)** mandates that all high school students have a five-year educational plan and that all high schools offer career majors/areas of concentrations. It is the intent of the law that students have a focus while in school to help make learning more relevant and meaningful.

Students in 6th – 8th grades must complete at least six career awareness activities which help students to develop a five-year educational plan. It also requires school systems to offer areas of concentrations to address students' interests.

**The Five-Year Educational Plan** Students must complete this plan at the end of their 8th grade year with input from their counselor and/or advisor and family. This plan must be reviewed and revised on an annual basis throughout high school with student, parent and counselor/advisor signatures each year.

## Manufacturing Cluster High School Areas of Concentrations (2007 – 2008)

**Diploma Endorsements** will help provide for students the preparation necessary for college and/or a career. By the same token employers will be getting better prepared workers, and higher education institutions will have students better prepared for success in their post secondary institutions. These endorsements help students to maximize their 11th and 12th grades, encourage more students to take Advanced Placement courses, encourage students to take advantage of career and technical education courses and opportunities, as well as hold high schools accountable for what is taught during the 11th and 12th grades. Students can complete the necessary requirements for two different diploma endorsements:

- Academic Endorsement
  - Career and Technical Endorsement
- Please see your guidance counselor for further details.

**The Louisiana WORKReady! Certificate** is a portable credential that signifies to an employer that an individual has achieved acceptable levels in the foundation skills necessary for success in the workplace and gives Louisiana citizens a “key to work”. Issued by the Workforce Commission, the Certificate is a tool that helps employers identify qualified candidates to fill the openings they have in their businesses.

People who attain the Certificate, which will display their workplace readiness skill levels, will have an advantage as they pursue their career goals. The Certificate increases the likelihood that business will receive a well-trained, highly skilled worker and that education will prepare students for available jobs. For more information, contact the Workforce Commission at 225-342-2094 or the Board of Regents at 225-342-4253.

**Career Cluster**  
 Manufacturing

**Areas of Concentrations**  
 Industrial Operations  
 Jewelry Manufacturing  
 Lab Technology  
 Petro Chemical  
 Welding

**Post Secondary Programs**  
 Two-year Postsecondary Education  
 Apprenticeship  
 Art  
 Manufacturing

**Training Programs Related**  
**Certification(s):**  
 NCCER Certification – Welding  
 Welding – Level 1  
 NCCER  
 AWS

For more information on course selection visit our Web site:

<http://www.doe.state.la.us/lde/ssa/currichome.html>

### TOP EMPLOYING INDUSTRIES

#### Industry

(based on North American

Industry Classification System NAICS)

2004

2014

Number  
of New  
Jobs

Percent  
Change

Transportation Equipment

23,882

25,037

1,155

4.8%

Manufacturing

Chemical Manufacturing

23,520

21,048

-2,472

-10.5%

Food Manufacturing

18,268

16,661

-1,607

-8.8%