

Occupational Title	Minimum Education Requirements	** Total Annual Demand	1 <sup>st</sup> Quarter 2006 Average Hourly Wage
First-Line Supervisors/Managers of Construction Trades and Extraction Workers	Work Exp. in a related occ.	330	\$21.75
Construction and Building Inspectors	Work Exp. in a related occ.	40	18.58
Helpers--Installation, Maintenance, and Repair Workers	Short-term Tng. & Exp.	180	\$9.49
Helpers--Carpenters	Short-term Tng. & Exp.	140	9.59
Helpers--Pipefitters, Plumbers, Pipefitters, and	Short-term Tng. & Exp.	140	10.98
Helpers--Electricians	Short-term Tng. & Exp.	100	10.35
Meter Readers, Utilities	Short-term Tng. & Exp.	60	10.48
Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	Short-term Tng. & Exp.	50	9.26
Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	Short-term Tng. & Exp.	30	11.72
Architectural and Civil Drafters	Postsecondary voc.	40	\$20.47
Mechanical Drafters	Postsecondary voc.	20	18.88
Construction Laborers	Mod.-term Tng. & Exp.	310	\$10.55
Painters, Construction and Maintenance	Mod.-term Tng. & Exp.	260	13.72
Operating Engineers and Other Construction	Mod.-term Tng. & Exp.	230	15.15
Excavating and Loading Machine and Dragline Operators	Mod.-term Tng. & Exp.	70	12.80
Crane and Tower Operators	Mod.-term Tng. & Exp.	70	16.95
Highway Maintenance Workers	Mod.-term Tng. & Exp.	60	11.03
Sheet Metal Workers	Mod.-term Tng. & Exp.	60	15.76
Drywall and Ceiling Tile Installers	Mod.-term Tng. & Exp.	50	13.98
Hazardous Materials Removal Workers	Mod.-term Tng. & Exp.	30	13.39
Pipelayers	Mod.-term Tng. & Exp.	30	12.51
Coin, Vending, and Amusement Machine Servicers	Mod.-term Tng. & Exp.	30	12.63
Roofers	Mod.-term Tng. & Exp.	50	13.67
Carpenters	Long-term Tng. & Exp.	540	\$14.72
Plumbers, Pipefitters, and Steamfitters	Long-term Tng. & Exp.	430	18.05
Electricians	Long-term Tng. & Exp.	310	18.65
Industrial Machinery Mechanics	Long-term Tng. & Exp.	170	19.61
Structural Iron and Steel Workers	Long-term Tng. & Exp.	100	16.50
Heating, Air Conditioning, and Refrigeration	Long-term Tng. & Exp.	100	14.55
Electrical Power-Line Installers and Repairers	Long-term Tng. & Exp.	80	19.44
Cement Masons and Concrete Finishers	Long-term Tng. & Exp.	70	13.52
Millwrights	Long-term Tng. & Exp.	40	16.88
Glaziers	Long-term Tng. & Exp.	30	12.99
Brickmasons and Blockmasons	Long-term Tng. & Exp.	30	15.94
Construction Managers	Bachelor's degree	170	\$29.98
Cost Estimators	Bachelor's degree	80	23.31
Surveyors	Bachelor's degree	50	20.82

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

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## Occupations in the Spotlight



### Electricians



Install, maintain, and repair electrical wiring, equipment and fixtures. Ensure that work is in accordance with relevant codes. May install or service streetlights, intercom systems, or electrical control systems.

- ◆ License required
- ◆ Knowledge of the practical application of engineering science and technology
- ◆ Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications

### Required WorkKeys® Scores:

**AM**   **LI**   **RI**  
**5**   **5**   **5**

### Construction Managers



Plan, direct, coordinate or budget activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, and implementation.

- ◆ Knowledge of business and management principles
- ◆ Knowledge of materials, methods, and the tools involved in construction or repair of structures and roads
- ◆ Knowledge of principles and procedures for personnel recruitment, selection, and training

### Required WorkKeys® Scores:

**AM**   **LI**   **RI**  
**6**   **5**   **5**

**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 the designing, planning, managing, building and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs. professional services.*

## FASTEST GROWING JOBS

- 👤 Carpenters
- 👤 Plumbers, Pipefitters, and Steamfitters
- 👤 First-Line Supervisors/Managers of Construction Trades and Extraction Workers
- 👤 Electricians
- 👤 Construction Laborers
- 👤 Painters, Construction and Maintenance
- 👤 Operating Engineers and Other Construction Equipment Operators

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".

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 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.

## Architecture and Construction 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

Architecture and Construction

### Areas of Concentrations

Air Conditioning and Refrigeration  
Architecture  
Cabinetmaking  
Carpentry and Construction  
Drafting  
Electrical  
Masonry  
Plumbing

### Post Secondary Programs

Architecture  
Architectural Engineering  
Apprenticeship  
Construction Management  
Drafting  
Two-year post secondary education  
ADDA

### Training Programs Related

#### Certification(s):

ADDA  
EPA Cert. Exam for Refrigerant Handling  
Certified Drafter  
Drafting  
NCCER Certifications:

- Carpentry
- Electrical
- General
- Glazing
- Heating, Ventilating, and A/C
- Insulation
- Ironwork
- Masonry
- Painting
- Roofing
- Sheet Work
- OSHA
- Others, etc.

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
Construction of buildings	22,616	27,935	5,319	23.5%
Heavy and civil engineering construction	34,301	37,578	3,277	9.6%
Specialty trade contractors	60,071	65,714	5,643	9.4%