Construction Science and Management

What can I do with this degree?

Construction science and management is a field of engineering technology focused on producing future leaders well versed in relevant management practices, current construction techniques, and the conduct of applied research. Technical problems in the construction industry are constantly changing so there is a demand for ever-increasing technical skill and competence. It is the responsibility of a construction manager to manage the construction of environments for everyday life and work, and infrastructure for public needs.

**Construction Management Skills**

<table>
<thead>
<tr>
<th>Attention to detail</th>
<th>Project management</th>
<th>Speech Clarity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem solving</td>
<td>Clear communicators</td>
<td>Inductive Reasoning</td>
</tr>
<tr>
<td>Critical thinking</td>
<td>Decision-making</td>
<td>Coordination</td>
</tr>
<tr>
<td>Creativity</td>
<td>Time Management</td>
<td>Oral Comprehension</td>
</tr>
<tr>
<td>Managerial Knowledge</td>
<td>Negotiation</td>
<td>Problem Sensitivity</td>
</tr>
<tr>
<td>Interpersonal skills</td>
<td>Active Learning</td>
<td>Deductive Reasoning</td>
</tr>
<tr>
<td>Active Listening</td>
<td>Coordination</td>
<td>Social Perceptiveness</td>
</tr>
<tr>
<td>Leadership Skills</td>
<td>Monitoring</td>
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</tr>
</tbody>
</table>

**Degrees offered at Texas State University**

Bachelor of Science, B.S. with Business Minor

**Other Degrees & Certifications**

Master of Science, M.S.

Doctor of Philosophy, Ph. D. in Construction Management

Certified Construction Manager, [http://cmaanet.org/](http://cmaanet.org/)

Associate Constructor Certification, [http://www.professionalconstructor.org](http://www.professionalconstructor.org)

Certified Professional Constructor, [http://www.professionalconstructor.org](http://www.professionalconstructor.org)

HVAC Licensing, [http://www.nationalcontractors.com/hvac.htm](http://www.nationalcontractors.com/hvac.htm)
CAREER PATHS
(Some of the occupations outlined in this brochure may require additional education or training)

...in Construction Management

Sample Job Titles
Construction Manager
Construction Superintendent
Concrete Foreman
Construction Foreman
Job Superintendent

Project Manager
Estimator
Construction Area Manager
General Contractor
Project Superintendent

Possible Work Settings
Consulting Engineering Firm
State Government
City Government
Large Corporation
Management Service Firms

Self-Employed
Specialty Trade Contractor
Educational Institutions
Real Estate Developers
Construction Companies

Professional Organizations
American Institute of Constructors and the Constructor Certification Commission, http://www.professionalconstructor.org
Construction Management Association of America, http://www.cmaanet.org

...in Cost Estimation

Sample Job Titles
Estimator
Estimator Project Manager
Construction Estimator
Design Consultant
Sales Engineer

Cost Estimator
Project Manager
Cost Analyst
Operations Manager

Professional Organizations

What I can do with this degree?

Page 2 of 4
...in Inspection

**Sample Job Titles**
- Building Inspector
- Construction Inspector
- Associate Architect
- Plumbing Inspector
- Building Mechanical Engineer
- Engineering Technician
- Engineer
- Inspector
- Building Code Administrator
- Building Official

**Professional Organizations**
- Association of Construction Inspectors, [http://www.aci-assoc.org](http://www.aci-assoc.org)
- Housing Inspection Foundation, [http://www.hif-assoc.org](http://www.hif-assoc.org)
- International Association of Electrical Inspectors, [http://www.iaei.org](http://www.iaei.org)
- National Academy of Building Inspection Engineers, [http://www.nabie.org](http://www.nabie.org)
- International Academy of Certified Home Inspectors, [http://www.nachi.org](http://www.nachi.org)
- The National Association of Home Inspectors, [http://www.nahi.org](http://www.nahi.org)

...in Supervision

**Sample Job Titles**
- Construction Supervisor
- Construction Superintendent
- Field Supervisor
- Job Foreman
- Field Operations Supervisor
- Construction Foreman
- Project Manager
- Project Superintendent
- Fence Installer Foreman
- General Foreman
- First-Line Supervisor

**Possible Work Settings**
- Manufacturing Industry
- Building Contractors
- Motion Picture Industries
- Building Equipment Contractors
- City Infrastructure Construction
- Construction Companies
- Utility System Construction
- Oil and Gas Extraction
- Civil Engineering Construction

...in Education

**Sample Job Titles**
- Professor
- Researcher
- Lecturer

**Possible Work Settings**
- Research Center
- Universities
- Colleges
RESOURCES

Texas State University- Student Organizations
American Concrete Institute        American Foundry Society
Associated General Contractors     Construction Student Association
National Association of Home Builders Associated Builders and Contractors

Career Library Resources
Businesses You Can Start Almanac by Adams Media

Professional Organizations
The Construction Specifications Institute, http://www.csinet.org
The Associated General Contractors of America, http://www.agc.org
Mechanical Contractors Association of America, http://www.mcaa.org
Associated Builders and Contractors, Inc. http://www.abc.org

Job Search
Construction Executive Online, http://www.constructionexecutive.com
Construction Crossing, http://www.constructioncrossing.com

Information for this handout compiled from:
Texas State University, Majors & Careers at North Carolina State University, US Department of Labor- Bureau of Labor Statistics, Career Center at Kansas State University, Career Center at Texas A&M University, Faculty of Business and Economics at Monash University, WorldWideLearn, O*Net Online, Education-Portal.com