
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

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

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/>

Associate Constructor Certification, <http://www.professionalconstructor.org>

Certified Professional Constructor, <http://www.professionalconstructor.org>

HVAC Licensing, <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	Project Manager
Construction Superintendent	Estimator
Concrete Foreman	Construction Area Manager
Construction Foreman	General Contractor
Job Superintendent	Project Superintendent

Possible Work Settings

Consulting Engineering Firm	Self-Employed
State Government	Specialty Trade Contractor
City Government	Educational Institutions
Large Corporation	Real Estate Developers
Management Service Firms	Construction Companies

Professional Organizations

American Council for Construction Education, <http://www.acce-hq.org>
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	Cost Estimator
Estimator Project Manager	Project Manager
Construction Estimator	Cost Analyst
Design Consultant	Operations Manager
Sales Engineer	

Professional Organizations

Association for the Advancement of Cost Estimating International,
<http://www.aacei.org>
Society of Cost Estimating and Analysis, <http://www.sceaonline.org>
American Society of Professional Estimators, <http://www.aspenational.org>

...in Inspection

Sample Job Titles

Building Inspector	Engineering Technician
Construction Inspector	Engineer
Associate Architect	Inspector
Plumbing Inspector	Building Code Administrator
Building Mechanical Engineer	Building Official

Professional Organizations

American Society of Home Inspectors, <http://www.ashi.org/>
Association of Construction Inspectors, <http://www.aci-assoc.org>
Housing Inspection Foundation, <http://www.hif-assoc.org>
International Association of Electrical Inspectors, <http://www.iaei.org>
International Code Council, <http://www.iccsafe.org>
National Academy of Building Inspection Engineers, <http://www.nabie.org>
International Academy of Certified Home Inspectors, <http://www.nachi.org>
The National Association of Home Inspectors, <http://www.nahi.org>

...in Supervision

Sample Job Titles

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

Possible Work Settings

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

...in Education

Sample Job Titles

Professor	Researcher	Lecturer
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Possible Work Settings

Research Center	Universities	Colleges
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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

American Society for Engineering Education, <http://www.asee.org>
The Construction Specifications Institute, <http://www.csinet.org>
National Demolition Association, <http://www.demolitionassociation.com>
The Associated General Contractors of America, <http://www.agc.org>
Mechanical Contractors Association of America, <http://www.mcaa.org>
National Association of Women in Construction, <http://www.nawic.org>
Associated Builders and Contractors, Inc. <http://www.abc.org>
National Association of Home Builders, <http://www.nahb.org>
Construction Financial Management Association, <http://www.cfma.org>

Job Search

Construct My Future, <http://www.constructmyfuture.com>
Construction Executive Online, <http://www.constructionexecutive.com>
Construction Crossing, <http://www.constructioncrossing.com>
Construction Recruiters Network, <http://www.constructionrecruiters.com>
Architecture, Engineering, and Construction Workforce, <http://www.aecworkforce.com>
National Construction Work Force, <http://nationalworkforce.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*