

What is Construction Management?

Construction management is a professional discipline focused on the administration and supervision of all phases of construction, including planning, design, pre-construction and post-construction. Construction Managers are used to promote the successful execution and completion of construction projects to achieve the desired quality, cost, time and scope.

What do Construction Management Technicians do?

Construction Management Technicians apply comprehensive project controls to help manage the critical issues of time, cost, scope, quality, and safety of a construction project. They are trained in all aspects of the construction process, from the design phase to jobsite management. They may work in the field coordinating construction projects, work in a contractor's office, or own their own construction company. They are involved in the layout, construction, inspecting, estimating, scheduling, marketing, coordinating or supervision of construction projects.

Where can I get a job?

Graduates typically work as an engineering aide, materials and job estimator, specification writer, building inspector or supervisor/project manager in the construction and land development field. They can find work with government agencies, architectural firms, engineering firms and other multi-discipline design firms.

How much will I earn?

Construction Management Technology graduates can earn an estimated salary ranging from \$28,000 - \$50,000 per year. Salary estimates are dependent on the local job market and the prior work experience of graduates. Many graduates with work experience see their degree significantly increase their earning potential.

Delaware Technical & Community College Engineering Technologies Department

Civil Engineering Technology

Architectural Engineering
Technology

Construction Management
Technology

Computer-Aided Engineering
Drafting & Design Technology

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Construction Management Technology



Delaware Technical & Community College
www.dtcc.edu

What classes will I take?

Construction Project Administration prepares the student to use procedures and techniques involved in controlling, coordinating, and managing the construction project processes.

Construction Blueprint Reading covers the fundamentals of reading and interpreting residential and light commercial building construction drawings. Reading drawings for structural information, reading detail drawings and plot plans, and reading blueprints for trade information will also be covered.

Architectural Drafting & Design presents basic architectural technology and drafting techniques through the drawing of plans, elevations, sections, details and schedules, as used in residential construction documents.

Construction, Materials & Methods covers construction, materials, and methods of use as they relate to the overall building industry, with major emphasis on the areas of soils, concrete, brick, masonry, steel, non-ferrous metals, timber and plastics.

Cost Estimating & Planning includes the preparation of material lists and take-off quantities of materials and labor costs from plans, working drawings, and specifications.

Advanced Cost Estimating & Planning continues with cost estimating and planning. Advanced topics will include heavy and commercial estimating and fundamentals of value engineering. Students will prepare construction estimates for a field project.

Contracts & Specifications studies the interpretation and preparation of specifications and other contract documents.

Project Scheduling & Accounting includes topics of job organization and coordination of subcontractors, long- and short-range scheduling, basic CPM scheduling techniques, materials management and shortages, and meeting schedules and cost estimates.

Computer Applications for Construction is an introduction to the use of microcomputer for construction applications. Construction estimating and project management software will be used and evaluated in the course.

Surveying Principles teaches theory and practice of plane surveying including the use of tapes, levels, transits and theodolites.

Introduction to CAD using AutoCAD presents an introduction to the basic elements of computer-aided drafting.

Project-Based Accounting provides a sound, thorough overview of accounting information emphasizing interpretation of accounting figures.

Human Resource Management covers personnel policies, interviewing and testing, selection and employment, training, benefits, employee-employer relations, affirmative action, and labor-management relations.

What will I learn in the Delaware Tech program?

The graduate will be able to:

1. Utilize modern instruments, methods and standards to interpret and edit construction drawings and documents.
2. Utilize modern accounting, construction and architectural principles and practices to estimate material quantities and costs for construction projects.
3. Prepare and implement codes, contracts and specifications in design, construction and inspection activities.
4. Employ the principles of leadership in the management of construction projects.
5. Employ professional, ethical and legal standards and practices in construction projects.
6. Employ productivity software to solve technical problems and manage technical activities
7. Collect, organize and analyze data for building site considerations including run-off analyses, subsurface soils classification and foundation recommendations, standard penetration tests, contour grades elevations, boundaries, etc., and prepare site plans for regulatory approval.
8. Demonstrate a professional attitude by working efficiently in close cooperation with others, being adaptable to changes in plans and giving proper credit for assistance received through outside resources.

What Degree will I earn?

You will earn an Associates Degree in Construction Management.

When would I graduate?

You can enroll in the Construction Management Technology Program on either a full-time or part-time basis.

The length of time required to complete an associate degree depends on the number of courses you take each semester, but many students can finish their degree in as little as two years.

What qualities do I need to succeed in this field?

You should possess:

- An interest in construction methods and processes.
- The ability to pay attention to detail.
- The flexibility to adapt to new ideas and constantly changing technology.
- A creative mind.
- A good mathematics background.
- The ability to work well with others.

How do I enroll?

1. Obtain an admission application by calling (302) 888-5288. Admission applications are also available online at www.dtcc.edu/alUforms/. Complete and return the application to the Stanton campus with a \$10 fee.
2. Request that your high school and/or college transcripts be sent to the Admissions Office.
3. Arrange to take the Computerized Placement Test (CPT) unless you have already completed college-level math and English courses with a "C" grade or better. The CPT is administered by the Admissions Office (302) 454-3954 and is used to determine appropriate course placement.
4. Meet with a Delaware Tech counselor to discuss your CPT results and select your course schedule.
5. Remember to apply and register early for the best selection of courses.