

## Construction Engineering Technology

As a construction technology graduate, you will engage in the construction of structures of all types, including those for residential, commercial and public works use. They could include highways, bridges and tunnels, transportation facilities including airports and rapid transit systems, and environmental facilities such as water supply, sewerage and drainage projects.

As a construction technician with an associate degree, engaged in construction management, estimating and quantity takeoff, you will rely heavily on the use of the desk top computer. Also prior and during construction you will make use of surveying equipment (levels, transits and theodolites), in conjunction with a computer to lay out prior to or to ensure alignment during the construction. You will use apparatus designed to test construction materials such as concrete, soil and rock, with a heavy emphasis on computer applications. You will make use of this equipment to perform interesting tasks such as designing structural steel and reinforced concrete elements, testing and analyzing soil and rock samples or other engineering materials.



As a graduate with a baccalaureate degree you will be working as a construction manager or construction technologist using sophisticated construction management software to keep track of a complex project's progress and costs. Also, you could be involved with software for structural design, route surveying and sophisticated drafting programs.

Associate Degree or Construction Technician

As a graduate with a two year degree such as an Associate in Applied Science (A.A.S.) degree, you will be employed as a construction technician. These degree programs are available at many two year colleges and community colleges near your home or at a college of technology in your region.

To enter an A.A.S. program you should plan to take:

Sequential Mathematics I and II

Four years of English

One year of laboratory science.

### **Many interesting jobs are available to technicians!**

A construction technician has many very interesting career paths available to them. These career paths might include one of the following job titles:



Construction Technician - Assistant Construction Superintendent
Construction Technician - Assistant Project Manager
Construction Technician - Assistant Construction Estimator
Construction Technician - Construction Scheduler
Construction Technician Surveyor
Construction Technician Field Inspector
Construction Technician Concrete Plant Inspector

And many other fine jobs.

**Baccalaureate degree or construction technologist.**

As a graduate with a Bachelor of Science or Bachelor of Technology degree, you will be called a construction technologist. These programs are available at several four year colleges, frequently identified as 'construction management' either as combined four year degree programs or as upper division programs. Either program allows transfer from a community or two year technology college.

Preparation for a bachelors degree would include the following high school subjects:

Mathematics I, II and III

Four years of English

Two years of laboratory science.

**Many exciting careers are available to construction technologists!**

Construction technologists have been hired into the following careers:

Construction Technologist - Construction Superintendent
Construction Technologist - Project Manager
Construction Technologist - Construction Estimator
Construction Technologist - Construction Scheduler
Construction Technologist - Survey Party Chief
Construction Technologist - Chief Field Inspector

And many other fine construction technology careers!