

# CONSTRUCTION & MANUFACTURING

## INDUSTRIAL ENGINEERING TECHNICIAN

**Delivery:** Daytime and Online Classes

**Start:** Fall Semester, Full-Time

### OUTCOMES

Industrial Engineering Technician Diploma . . . . . 36 cr.

### MAJOR DESCRIPTION

With training in the Industrial Engineering Technician program you will obtain the necessary skills to maintain manufacturing, industry, and energy plants. Modern manufacturing, industry and energy plants are highly complicated and require a skilled worker to maintain them.

This program prepares students with a foundation in the theory, application and principles of these complicated environments. This includes the proper installation, maintenance and troubleshooting of mechanical, electrical, electronic, electromechanical, hydraulic and pneumatic power equipment. Our program also focuses on bearings and seals, print reading, preventative/predictive maintenance, safety, welding, laser alignment, and vibration analysis.

The Industrial Engineering Technician program is an ideal choice for students with good mechanical aptitude who take pride in their work.

### SALARY DATA

- Average Wage: \$25.59/hour
- Top Earners: \$29.77/hour

### INDUSTRIAL ENGINEERING TECHNICIAN DIPLOMA

*This is a sample course sequence.*

*Please contact your program advisor regarding your academic plans.*

<b>First Year - First Semester</b>		<b>18 cr</b>
IETA1000	Intro to Industrial Safety and Health . . . . .	3
IETA1100	Fundamentals of AC/DC Electricity I . . . . .	3
IETA1200	Fundamentals of AC/DC Electricity II. . . . .	3
IETA1300	Mechanical Fundamentals . . . . .	3
IETA1400	Process Controls/Instrumentation I. . . . .	3
ENGL1200	Technical Writing. . . . .	3
<b>First Year - Second Semester</b>		<b>18 cr</b>
IETA1500	Print Reading . . . . .	3
IETA1600	Welding Basics. . . . .	2
IETA1700	Fluid Power. . . . .	3
IETA1800	Mechanical Fundamentals for Process Control . . . . .	3
IETA1900	Programmable Logic Controls (PLC) Fundamentals. . . . .	3
MATS 1340	Math for Engineering Technology . . . . .	4

**TOTAL PROGRAM REQUIREMENTS 36**



**DAKOTA COUNTY**  
**TECHNICAL COLLEGE**

*DCTC.EDU • 2019-2020 CATALOG*

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*This information is available in an alternate format by calling 651-423-8469 or TTY/Minnesota Relay at 1-800-627-3529.*