

ElectroMechanical Systems

Industry Certifications | License

National Institute for Metalworking Skills (NIMS)

- Duty Area 1: Maintenance Operations
- Duty Area 2: Basic Mechanical Systems
- Duty Area 3: Basic Hydraulic Systems
- Duty Area 4: Basic Pneumatic Systems
- Duty Area 5: Electrical Systems
- Duty Area 6: Electronic Control Systems
- Duty Area 7: Process Control Systems
- Duty Area 8: Maintenance Welding

Oklahoma Career Readiness Certification

Quick Facts

Students: Adult & High School

Campus: Drumright

Times: Morning, Afternoon, Full Day

Scheduling Information

Drumright: 8:25am – 11:15am
12:45pm – 3:35pm

High school students attend morning or afternoon. Adults can choose from morning, afternoon or all day. Restrictions apply. Most classes follow the traditional August – May schedule. Ask about classes with Controlled Entry/Exit Options.

Entrance Requirements

Enrollment is open to in-district adults and high school juniors and seniors.

Application Process

Applications are available online at www.CentralTech.Edu, on Central Tech campuses and high schools in our district. Return completed application to a Central Tech Recruiter or high school counselor. Additional information may be required.

Financial Aid

Financial aid is defined as any grant, part-time employment, scholarship, or other federally funded program. Students with financial need may be eligible - applies to Programs of 600 hours or more. Central Tech Federal School Code: **00996**
Free Application for Federal Student Aid (FAFSA) www.fafsa.ed.gov.

Program

ElectroMechanical Technician

This Program is designed for individuals seeking careers in maintenance in a manufacturing environment. This is the basics of the maintenance manufacturing curriculum. The course covers safety, manufacturing fundamentals, tools, basic electricity, basic electronics, motor controls, PLC programming, process control, and adapting to the workforce skills.

Class time by hours | 1050 clock hours

- 30 Fundamentals of Manufacturing
- 10 Introduction to Manufacturing Technology – Machine Tool
- 40 Maintenance Tools & Equipment in Manufacturing
- 30 Safety in Manufacturing
- 100 Mechanical Power Transmission Theory & Principles
- 190 Fluid Power Theory & Power Transmission Principles
- 20 Alternative Current Circuits
- 30 Basic Electrical Theory
- 20 Direct Current Circuits
- 15 Electrical Distribution
- 10 Electrical Schematic & Blueprint Reading
- 20 Electromechanical Devices & Applications
- 10 Industrial Electricity
- 10 Motor Theory & Operations
- 10 Industrial Electronics
- 15 Variable Frequency Drives
- 15 Programmable Controller Interfacing
- 30 Programmable Controller Programming
- 30 Human Machine Interfaces
- 30 Microprocessor Instrumentation
- 20 Control Trouble Shooting
- 30 Controllogix Systems
- 20 Digital Electronics for Manufacturing Maintenance
- 70 Instrumentation & Control I
- 70 Principles of Welding & Manufacturing Maintenance
- 30 Industrial Networking
- 30 Workforce Staging
- 115 Capstone

Tuition: \$1575|Fees: \$137|Books & Supplies: \$1041.50|Cost: \$2753.50

***Optional Supplies: \$425**

***Program costs are subject to change.**