Northeast community college

APPRENTICESHIP PROGRAM

Electromechanical Technician

PROGRAM OUTCOMES:

Learn the skills and knowledge to install, maintain, and repair complex industrial equipment. Focus on electrical principles, circuitry, electrical controls, robotics, print reading, programming, and mechanical systems.

PROGRAM LENGTH:

705 hours of related instruction &
Approximately 1-2 years of on-the-job learning

CERTIFICATION:

NC3 Precision Measurement
NC3 Torque

ON-THE-JOB LEARNING COMPETENCIES:

Test performance of electrical, electronic, mechanical, or integrated systems or equipment.

Design electromechanical equipment or systems.

Review technical documents to plan work.

Install instrumentation or electronic equipment or systems.

Maintain electromechanical equipment.

Disassemble and reassemble equipment or components.

Cut materials according to specifications or needs and operate welding equipment.

CLASSROOM INSTRUCTION:

NC3 Precision Measurement Instruments
Level 1 Mechanical Systems
Level 1 Electrical Systems
Level 2 Mechanical Systems
Level 2 Electrical Systems
Level 3 Mechanical Systems
Level 4 Mechanical Systems

JOB FUNCTIONS:

Test performance of electromechanical assemblies, using test instruments such as oscilloscopes, electronic voltmeters, or bridges.

Read blueprints, schematics, diagrams, or technical orders to determine methods and sequences of assembly.

Inspect parts for surface defects.

Install electrical or electronic parts and hardware in housings or assemblies, using soldering equipment and hand tools.

Verify part dimensions or clearances to ensure conformance to specifications, using precision measuring instruments.

SKILLS:

Operations Monitoring, Quality Control Analysis, Troubleshooting, Critical Thinking

DEPARTMENT OF LABOR · UNITED STATES OF AMERICA ·

Electromechanical Technician | O*Net Code 17-3024.00 | RAPIDS Code 0167CB