

ENTRY MAINTENANCE TECHNICIAN



One-Year Embedded Technical Diploma

30-620-4

This embedded diploma is designed to prepare completers for entry-level electromechanical maintenance technician employment. Employment opportunities include the areas of electricity, hydraulics, pneumatics, analog circuits, programmable logic controllers (PLCs), and computer and robotic programming. The diploma covers electromechanical safety, the fundamentals of DC and AC electricity, hydraulics, pneumatics, analog circuits, introduction to programmable logic controllers, computer and robotic programming, technical mathematics, and written communications.

- [Perform work safely \(TSA\)](#)
- [Troubleshoot electrical and mechanical systems and devices Integrates safety protocol. \(TSA\)](#)
- [Repair electrical and mechanical systems \(TSA\)](#)
- [Communicate Technical Information \(TSA\)](#)
- [Operate power and hand tools and standard test equipment](#)

620-101	Fundamentals of DC Circuits 1	1
620-113	Fundamentals of AC Circuits 1	1
620-109	Relay Logic	1
620-106	Electric Motors 1	1
Credits		13
Total Credits		13

Semester 1		Credits
620-902	Mechanics of Learning for Industrial Technologies	1
620-903	Troubleshooting Integrated Manufacturing Systems 1	1
449-300	Safety for General Industry	1
421-310	Print Reading for Manufacturing	1
421-110	Interpreting Schematics for Manufacturing	1
620-146	Basic Mechanics	1
620-147	Basic Principles of Preventive Maintenance	1
620-116	Fluid Power 1: Basic Pneumatics	1
620-117	Fluid Power 2: Basic Hydraulics	1