

MAINTENANCE TECHNICIAN

COURSE NUMBER	COURSE NAME	COURSE DESCRIPTION
MTEC1-0100	MAINTENANCE OPERATIONS	This course includes careers in industrial and facility maintenance, industrial safety and OSHA, maintenance principles and recordkeeping, tools, fasteners, print reading, basic troubleshooting principles, and mechanical rigging and installation
MTEC1-0200	INTRODUCTION TO WINDOWS, WORD, & GOOGLE	This course is an introduction to operating systems such as Windows, and an introduction to Microsoft Word and Google applications.
MTEC2-0100	BASIC MECHANICAL SYSTEMS	This course includes power transmission principles; bearings, seals, and lubrication; shafts, couplings, and alignment; belts and pulleys; chains and sprockets; gears; conveyor systems; and mechanical systems troubleshooting.
MTEC2-0200	BASIC HYDRAULIC & PNEUMATIC SYSTEMS	This course includes fundamentals of fluid power, hydraulic systems, pneumatic systems, and advanced fluid power.
MTEC3-0100	ELECTRICAL SYSTEMS	This course includes fundamentals of electricity; Ohm's Law; Kirchoff's Laws, and the Power Equation; electrical test and measurement equipment; alternating current; electrical components and circuit materials; transformers; motors, generators, and alternators; motor controls; industrial wiring diagrams and practices; and electrical troubleshooting.
MTEC3-0200	ELECTRONIC CONTROL SYSTEMS	This course includes diodes, rectifiers, and power supplies; transistors and integrated circuits; sensors and variable frequency drives; programmable logic controllers (PLC's); and human-machine interfaces.
MTEC4-0100	PROCESS CONTROL SYSTEMS	This course includes industrial process control, heating, refrigeration, and HVAC system control and design.
MTEC4-0200	MAINTENANCE WELDING	This course includes welding safety, equipment, and processes; maintenance welding procedures and inspection; and cutting procedures.
MTEC4-0300	MAINTENANCE PIPING	This course includes piping systems, components, materials, tools, connections and fittings.