Industrial Technical Course Schedule

Blueprint Reading
Provides basic skills for blueprint applications. Class sessions will focus on the following: blueprint basics, understanding prints, print format, dimensioning blueprints, basic plane geometry review, threaded fasteners, weld symbols /fillet and groove welds, basic pipe welding symbols, machining drawings and basic hydraulic/ pneumatic/ electrical drawings.

Course Details:
Day/Time: Tuesdays, 4:30 – 7:30 PM
Date: March 21 – May 23, 2017
Room: Halterman Hall Room 280
Ohio State ATI, 1328 Dover Road, Wooster
Tuition: $695 + textbook
30 hours instruction and hands-on lab

Industrial Motors & Motor Controls
This course is designed for the participant with some working knowledge and/or experience in industrial electricity. The Basic Industrial Electricity or equivalent is prerequisite for this course. The course is meant to help prepare participants for employment in the field of industrial electrical maintenance. It is a course consisting of lecture, lab demonstration, and hands-on and software based lab assignments. Areas covered include the following: Safety, Understanding electrical drawings, Motor transformer and distribution systems, Motor control devices, Motor principles, DC motors, Three phase AC motors, Single phase AC motors, Motor selection, Motor installation, Motor maintenance and troubleshooting, Motor starters, Relays and logic, Motor control devices, and AC and DC drives. (Prerequisite: Basic Industrial Electricity)

Course Details:
Day/Time: Wednesdays, 9:00 AM – 12:00 Noon
Date: March 29 – May 31, 2017
Room: Skou Room 134
Ohio State ATI, 1328 Dover Road Wooster
Tuition: $695 + textbook
30 hours instruction and hands-on lab

Basic Industrial Electricity
The course is designed for participants with little or no previous background in the study of electricity. It is the first course in a series of courses that build one upon the other that are intended to prepare the participants for employment a field requiring a knowledge of industrial electricity and controls. The prerequisite for this course is Technical Mathematics or equivalent. The course consists of lecture, lab demonstrations and hands-on software based lab assignments. Areas to be covered include: Basic electrical physics and atomic structure, Electrical quantities and Ohm’s law, Electrical safety, Series circuits, Parallel circuits, Combination circuits, Test equipment and measuring instruments, Magnetic induction, Direct current generators, Direct current motors, Alternating current, Electrical distribution, Inductance in AC circuits, Capacitance in AC circuits, Basic three phase circuits, Basic transformers, Basic single phase motors, and Basic three phase motors.

Course Details:
Day/Time: Mondays, 4:00 – 7:00 PM
Date: March 27 – June 5 (No class May 29)
Room: Skou Room 134
Ohio State ATI, 1328 Dover Road, Wooster
Tuition: $695 + textbook
30 hours instruction and hands-on lab

Pneumatic Automation
Provides an understanding of the operation and maintenance of pneumatic components and automation systems. Topics such as compressed air and vacuum systems, pneumatic logic systems, component operation, selection, maintenance and troubleshooting are emphasized in the class and lab environment.

Course Details:
Day/Time: Thursdays, 5:00 – 8:00 PM
Date: March 23 – May 25, 2017
Room: Skou Room 134 5:00 – 6:00 PM Lecture & Skou Room 140 6:00 – 8:00 PM Lab
Ohio State ATI, 1328 Dover Road Wooster
Tuition: $695 + textbook
30 hours instruction and hands-on lab