Industrial Technical Course Schedule

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: Wednesdays, 2:00 PM – 5:00 PM
Date: March 21 – May 23, 2018
Room: Skou Room 134
Ohio State ATI, 1328 Dover Road, Wooster
Tuition: $695 + textbook
30 hours instruction and hands-on lab

Basic Hydraulics
Provides a basic understanding of the operation and maintenance of hydraulic components and systems. Topics to be covered in the classroom and in the lab setting: Principles of Hydraulics; Definitions and Terminology; Hydraulic Symbols and Schematics; Types of Circuits; Pumps (designs and applications); Motors (designs and applications); Cylinders (designs and application); Pressure, Direction and Flow Control Valves; Oil Filtration, Sampling and Fabrication; Fittings (use and identification).

Course Details:
Day/Time: Thursdays, 5:00 PM – 8:00 PM
Date: April 5 – June 7, 2018
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

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