

Maintenance Craft Skills Training Program Summary

- Maintenance Measurements & Blueprint Reading2 *days*
 - This classroom and hands-on course teaches participants how to use basic measuring instruments and how to interpret mechanical drawings used in equipment maintenance.
- Basic Electricity, Electronics & Schematic Reading.....2 *days*
 - This classroom and hands-on course teaches participants the basics of electricity including electrical safety, Ohm's law, power calculations, the functions of basic electrical and electronic components, basic use of digital multimeters and how to read electrical schematic drawings.
- Motor & Control Circuit Troubleshooting.....2 *days*
 - This course teaches participants basics of motor and motor control circuit operations, and how to identify basic motor and motor control faults with a digital multimeter using computer and physical simulations.
- Maintenance Troubleshooting workshop3 *days*
 - Through classroom training, an explanation of mechanical and electrical fundamental principles and test procedures and group role playing exercises, this course shows participants how to gather and evaluate evidence, deconstruct failures, and verify solutions to equipment failures in order to determine and correct their root causes, and create strategies to prevent reoccurrence.
- Basic Lubrication Practices/Lubrication Excellence3 *days*
 - Lubrication Excellence hands-on training helps participants learn how to implement and sustain lubrication best practices to maximize equipment performance and life. Topics include:
 - Contamination elimination, receiving, storage, delivery, disposal best practices
 - Ultrasound lubrication
 - Developing lubrication frequencies & amounts
 - Troubleshooting lubrication systems
 - Lubricant selection & analysis
- Basics of Oil Analysis/Developing Your Program3 *days*
 - This class explains the basics of gear and hydraulic oil analysis, explaining what properties to sample for, as well as they conditions they indicate, and their safe limits necessary for system reliability. As well, this class explains proper oil sampling techniques, locations and frequencies.

Maintenance Craft Skills Training Program Summary

- Basics of Industrial Hydraulics & Pneumatics3 *days*
 - This hands-on and classroom workshop provides a detailed explanation of hydraulic and pneumatic systems, the components they contain and how they work, interpretation of schematic diagrams and basic care and troubleshooting of fluid power systems.
- Basic Hydraulic & Pneumatic Maintenance Practices.....2 *days*
 - This workshop teaches participants the basics of hydraulic piping and sealing practices geared towards maintaining a clean, cool, leak-free system. Fluid and seal compatibility, fitting types & seal types are covered as well as practices used to improve hydraulic system reliability.
- Installation & Maintenance of Belt & Chain Drives2 *days*
 - This classroom and shop floor workshop teaches participants the techniques necessary to maintain reliable belt and chain drives through correct inspection, installation, maintenance and repair procedures.
- Installation & Maintenance of Bearings2 *days*
 - This classroom and shop floor workshop teaches participants the techniques necessary to maintain reliable bearings drives through correct inspection, installation, maintenance and repair procedures.
- Basics of Industrial Pumps.....2-3 *days*
 - This classroom and shop floor workshop teaches participants the techniques necessary to maintain and operate pumps and pumping systems through correct inspection, installation, maintenance and repair procedures.
 - This class can be configured to include an additional day consisting of the teardown, inspection and rebuilding of a customer-supplied pump.
- Predictive maintenance shop floor training & improvement2-5 *days*
 - These hands-on workshops are performed on the critical assets in your facility that require high levels of reliability. We will demonstrate and train participants on the use of tools to achieve this in the following technologies:
 - Ultrasound/air leak detection training
 - Ultrasound/bearing detection training
 - Infrared/thermography training
 - Additionally, we help to developing your program going forward by developing routes for inspections and the procedures required to do so.