The course goal is to provide skilled trades personnel an overview of the ABB Robotic Washer, and instruction on how to mechanically maintain the ABB Robotic Washer. This course provides instruction to personnel involved with the operations of the ABB Robotic Washer and is structured to provide a combination of classroom lecture and hands-on training. Task certification sheets will be documented to ensure understanding course content.

**Topics:**

- Proper safety precautions used while performing mechanical repair
- Maintenance and mechanical repair of cell components
- Operating procedures (start-up, shut-down, e-stop, etc.)
- Basic review of PM requirements
- Mechanical fault identification
- Mechanical troubleshooting techniques
- Hydraulic and pneumatic cell adjustments
- Cell component lubrication

**Course Objectives:** After successfully completing the course, the participant should be able to:

- Demonstrate knowledge of equipment safety features
- Demonstrate knowledge of system operating procedures
- Demonstrate the ability to operate the cell using HMI control screens and manual push button panels
- Locate and identify all major system components
- Demonstrate the ability to perform preventive maintenance tasks
- Demonstrate the ability to maintain the washer mechanical components (media roll, filters, UV light, valves)
- Demonstrate the ability to troubleshoot the system using the HMI fault codes
- Locate each cell component lubrication point and understand lube requirement
- Demonstrate knowledge of cell hydraulic HPU’s and components
- Demonstrate knowledge of pneumatic cell components
- Demonstrate the ability to troubleshoot mechanical, hydraulic and pneumatic problems associated with the cell components

**Student Profile:** This course is intended for personnel responsible for starting, operating, maintaining, and mechanically repairing the ABB Robotic Washer.

- Skilled trades personnel required to mechanically repair and adjust the components

**Prerequisites:**

- ABB Robotic Washer, On-Line Operator Course
- Basic knowledge of automated assembly equipment
- Basic understanding of Windows operating systems and computer skills (identification of hardware and terminology)
- Basic engine assembly buildup operation and processes
- Mechanical Journeymen Status
- Mechanical component blueprint reading and understanding capabilities
- Hydraulic and pneumatic schematic reading

**Duration:** 1 day