



MOMII PREVENTATIVE MAINTENANCE COURSE

Online Training Course

Course ID: MNT-SP-E-2006-2012

ITW EAE Learning

Our eLearning courses are specifically designed to provide engaging and interactive learning opportunities for operators, technicians, engineers and/or managers to be introduced to or build upon the knowledge and skills needed to successfully operate, maintain, program, or troubleshoot their MPM Momentum equipment. Online courses are designed to cover beginning and intermediate competencies and should be mastered before considering more advanced, in person training. Courses require a reliable internet connection and can be viewed at your own pace on your phone, tablet, or pc laptop.

Course Overview:

This is a must-take course for any technician responsible for preventative maintenance on an MPM MOMII machine. A separate module is dedicated to each recommended maintenance time interval and covers step-by-step instructions on how to complete each of the recommended maintenance tasks, helpful tips, and the required tools and spare parts to have on hand.

Prerequisites:

- MOMII Safety Information & Guidelines (SFT-SP-E-2000).
- Printing Basics (GEN-SP-E-2013) OR a basic understanding of stencil printing.
- Machine Overview (GEN-SP-E-2014) OR an understanding of the Momentum II stencil printer.
- Basic Operations (OPS-SP-E-2003, OPS-SP-E-2004, OPS-SP-E-2005) OR an understanding of how to operate a Momentum II stencil printer.

A basic understanding of stencil printing and how to operate the Momentum II printer is required to perform preventative maintenance on the machine, as you will be using the diagnostics menu to control the machine.

Time Requirements: 3-4 hours

Assessments: Quizzes

Language: English

Learning Objectives:

Module 1: Preventative Maintenance Overview



- Identify the unit you will be maintaining and that preventative maintenance (PM) procedures may be different for each type of unit, depending on the components.
- Identify the main parts of a Momentum II stencil printer related to preventative maintenance.
- Explain the importance of inspection, cleaning, parts replacement, and lubrication.
- Understand the difference between calendar maintenance and cycle-dependent maintenance.
- Understand the importance of planning for preventative maintenance (tools, materials, and parts required).
- Understand that when performing preventative maintenance, it includes the task for that interval as well as more frequent intervals.
- Identify tools and equipment required for maintenance.

Module 2: Daily Preventative Maintenance



- Inspection of the hood gas springs
- Inspection and cleaning of internal assemblies
- Inspection of the solvent pan and leak sensor
- Removal and cleaning of the squeegee blades
- Removal and cleaning of the board tooling
- Removal and cleaning of the stencil

Module 3: Weekly Preventative Maintenance



- Inspection and cleaning of the print head
- Inspection and cleaning of the worknest Z-table vacuum
- Inspection and cleaning of the board clamp system (EdgeLoc and top clamps)
- Inspection and cleaning of board sensors, belts, and anti-static brushes
- Cleaning and lubrication of the linear rails and ball screws
- Inspection and cleaning of the vision probe assembly

Module 4: Monthly Preventative Maintenance



MPM MOMENTUM II

- Inspection of the main air filter bowls
- Inspection of the interlock switch
- Testing the E-stop and power buttons
- Testing the light tower and audible alarm
- Running Windows updates and anti-virus scans

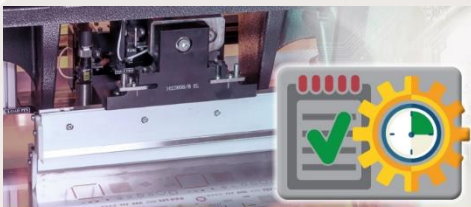
Module 5: Quarterly Preventative Maintenance



MPM MOMENTUM II

- Inspection and cleaning of the print head carriage
- Inspection and cleaning of the squeegee Z assembly
- Inspection and cleaning of the vision X linear rail

Module 6: Semi-Annual Preventative Maintenance



MPM MOMENTUM II

- Cleaning and lubricating parts related to the print head movement
- Cleaning and lubricating stencil shelf bearings and rails
- Cleaning and lubricating the wiper hard stop assembly
- Cleaning and lubricating parts related to the movement of the vision system, wiper system, and Z-table
- Inspecting and lubricating the track width linear bearings
- Inspecting the conveyor width drive belt
- Replacement of the transport track anti-static brushes

Module 7: Annual Preventative Maintenance



MPM MOMENTUM II

- Lubricating the board stop
- Maintaining wiper system and wiper assembly
- Replacing stencil wiper solvent filters
- Replacing hood gas springs and lubricating door hinges
- Replacing vacuum filter and main air filter elements
- Cleaning and lubricating the wiper assembly
- Replacing the transport track belts
- Lubricating the Z-table lift hardware

For more information and pricing, please contact ITW EAE at training@itweae.com.