

Rite Track Technical Training Center

Course Syllabus



Course: 88 Series Equipment Training
 Course ID: 88-IN-OPC
 System Type: 88 Series Tracks (models 88, 88e)

Prerequisite: This is an introductory course.

Course Objectives: Upon Completion of this course, the student will be able to:

Operating Procedures; Properly enter a process recipe and appropriate system options. Use system diagnostics to enhance troubleshooting skills. Properly operate the system in Auto, Manual, and Single modes.

Safety: Identify potential hazards encountered on track systems.

Start-up Procedures: List the required system facilities. Perform a functional check of the AC and DC circuitry. Properly level and align the track.

ATS Arm: Identify the main components of the ATS Arm assembly. Properly remove, install, and align the ATS Arm assembly. Trace electrical signals required when troubleshooting the ATS module.

Indexer Module: Trace the electrical signals required for indexer operation. Perform the required periodic maintenance and mechanical adjustments.

Temp Control: Describe the main components of the temperature control loop. Perform the prescribed calibration procedure. Identify the interlocks associated with the temperature loop. Troubleshoot temperature control problems to the module level. Remove and re-install the HPO and replace the heater block. Understand the mechanical and electrical functions of the chill plate.

Vapor Prime: Describe the main components of the Vapor Prime module. Identify the interlocks associated with the Vapor Prime module.

Coater Module: Remove and replace the catch cup. Remove, rebuild and reinstall the spindle tube. Remove and reinstall the spindle drive assembly. Perform wafer centering. Understand the operation of sensors and pneumatically controlled valves.

Peripheral Assemblies: Identify and understand the function of the exhaust flow controller, various photoresist pumps, and the developer cart.

Card Cage Electronics: Identify and understand the function of the CPU, Track Interface, and Display printed circuit boards.

Day	Subject	Contents	Lecture vs. Lab	Reference
1	Orientation, Course Introduction, System	Training Center and Safety Orientation, Process and Equipment Overview, Controls and Indicators, System Operation, System Diagnostics, System Programming, Process Recipes, Options	90% Lecture	Training Manual
2	Safety, Facilities, Indexer Module	Safety Hazards/Precautions, Facilities Requirements, AC/DC Power Distribution, Track Leveling and Alignment, Automatic Transport (ATS) Module, Indexer Module	60%/40%	Training Manual and Tool
3	Temperature Control	Hot Plate Oven (HPO), Chill Plate Module, Vapor Prime Module	50%/50%	Training Manual and Tool
4	Coater Module, Peripheral Assemblies	Coater/Developer Modules, Exhaust Flow Controller, SVG Pump, Millipore Photoresist Pump, Chill Cart	50%/50%	Training Manual and Tool
5	Electronics, Troubleshooting	Card Cage Electronics, CPU and Track Interface Printed Circuit Boards, Signal Tracing, Track Troubleshooting	40%/60%	Training Manual and Tool