Thermal Products 2010

Helios and Helios XP Maintenance Overview - Level 1 and Level 2

Free, only with 2-Training Credits per student.

This course is an introductory course for new users; this is a 2-week maintenance course. The course covers the following:

- Course introduction
- Equipment safety and evacuation
- System operations overview
- Wiring document overview
- Component location
- Network and Computer overview
- Maintenance overview
- Software functions
- Fault and abort status identification
- Power Rack overview
- Handling recovery
- Preventive and general corrective maintenance procedure hands-on
- Process module overview
- Power and control system overview
- Gas and cooling systems overview
- Lamp exchange
- Quartz R&R
- Temperature system overview
- Robot management, and computer system overview
- In depth gas flow theory
- Recipe creation, management, and optimization
- Introduction to CAST
- Installing Calibration wafers
- Temperature and pyrometer theory and calibration
- Lamp correction, theory and optimization
- Acquisition and transfer of Calibration data
- Engineering software controls and functions
- Uniformity optimization with Opus

Prerequisite:	None
Length:	10-days

2900 (2800) Maintenance Overview - Level 1 and Level 2

Free, only with 2-Training Credits per student.

This course is an introductory course for new users; this is a 2-week course.
The course covers the following:

- Course introduction
- Equipment safety and evacuation
- System operations
- Component overview
- Maintenance software functions
- Fault and abort status identification
- Handling recovery
- Preventive and general corrective maintenance
- Process module overview
- Power and control system overview
- Gas and cooling systems overview
- Quartz R&R
- Lamp exchange
- Temperature system overview
- Robot management
- Robot Teaching
- Computer system overview
- In depth gas flow theory
- Recipe creation and management
- Recipe optimization
- Temperature and pyrometer theory and calibration
- Lamp correction
- P-I-D theory and optimization
- Engineering software controls and functions

Prerequisite:	None
Length:	5-5ays

3000 Maintenance Overview - Level 1 and Level 2

Free, only with 2-Training Credit per student.

This course is an introductory course for new users; this is a 2-week course.
The course covers the following:

- Course introduction
- Equipment safety and evacuation
- System operations
- Component overview
- Schematic and wiring document overview
- Maintenance software functions
- Network and Computer overview
- Exercise and practice UNIX, FTP, Telnet, VI editor
- Fault and abort status identification
- Handling recovery
- Cooling circuit overview
- Preventive and general corrective maintenance
- Process module overview
- Power and control system overview
- Gas and cooling systems overview
- Quartz R&R
- Lamp exchange
- Temperature system overview
- Robot management
- Robot Teaching
- Computer system overview
- In depth gas flow theory
- Computer network communications
- Software structure and GUI overview
- Recipe creation and management
- Make a Calibration wafer
- Recipe optimization
- Temperature and pyrometer theory and calibration
- Lamp correction tables, LCT, CoCoS, FAC
- Opus for Flash Anneal
- P-I-D theory and optimization
- Engineering software controls and functions

Prerequisite:	None
Length:	10-days

3000 Steam – Level 3

Free, only with 1-Training Credit per student.

This course is for the advanced user; it is required to attend the Level 1 and 2 Maintenance Overview course to qualify for this training.

The course covers the following:

- Course introduction
- Equipment safety and evacuation
- Steam and Standard Tool comparison
- Steam Components overv
- Wiring Documents overview
- Hardware and structure of Steam Generator
- Steam Controller overview
- Structure of HBU
- Exercise and practice at the Steam Tool
- Generator and Tool interface
- Enable requirements and Software
- Recipe editor, Hydrogen and Oxygen gas flows
- Rotation setup, adjust and use in recipe
- Hardware component monitoring

Prerequisite:	Level 1, 2
Length:	5-days


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