Eclipse XTA Machine Training

Final Test System Lights Out Factory


Automotive


Mobility


IoT/IoV & Optoelectronics


Computing & Network


Industrial & Medical


Consumer

Course Description

This training material introduces the student to the Eclipse XTA test handler. The training is offered in three levels from the perspective of an Operator, a Maintenance Technician and an Advanced Technician:

- Level 1 - Basic: Focused on basic operational procedures: loading/unloading parts, troubleshooting, and general equipment safety
- Level 2 - Intermediate: Maintenance focused course intended to get the student familiar with the product. Operational requirements, setup and alignment, device workflows, and mechanical/electrical diagnosis
- Level 3 - Advanced: Maintenance focused course intended to get the student familiar with the product. Complex mechanical/electrical diagnosis, motor tuning, setup and alignment

Course Outline

- Overview and Safety
- Machine Platform
- Troubleshooting
- Electrical and Thermal Control
- Q&A, Practical, Wrap Up

Course Length

- Level 1: Basic - one day (seven hours)
- Level 2: Intermediate - five days (forty hours)
- Level 3: Advanced - ten days (eighty hours)

Prerequisites

- Level 2: Level 1 training and a minimum of thirty days experience with the Eclipse XTA test hander
- Level 3: Level 2 training and a minimum of six months experience with the Eclipse XTA test handler

Recommended

- English - written and spoken

- **Parallelism x1 up to x16**
- **Tri-temp range -45°C to +155°C**
- **Ultra fast T-Core Active Thermal Control**
- **Factory Automation (AGV and OHT)**
- **Lights Out Operation: 1/30K MCBJ**
- **Automated RFID (tray load/unload)**

Exclipse XTA Machine Training

Level 1: Basic

Day 1

1 - Overview
- Handler Overview
- Functional Mechanism Overview

2 - Safety
- EMOs, Light Curtain and Interlocks
- Barriers, Doors and Safety Covers
- Thermal Hazards
- Electrical Hazards

3 - Operations and User Interface
- Basic System Operations
- User Interface Screens Use
- Load Lots, Run Devices, Alarms and Recoveries
- Recipe Management and Package Files

4 - Q&A
- Q&A, Test, Wrap Up

Level 2: Intermediate

Day 1

1 - Overview
- Handler Overview
- Functional Mechanism Overview

2 - Safety
- EMOs, Light Curtain and Interlocks
- Barriers, Doors and Safety Covers
- Thermal Hazards
- Electrical Hazards

3 - System Mechanisms
- Names, Locations, Functions Automation
- Names, Locations, Functions Options
- Names, Locations, Functions Thermal Hardware
- Connect Facilities and Validate Requirements
- Perform Start Up Shut Down and INIT.

Day 2

4 - Operations and User Interface
- Basic System Operations
- User Interface Screens Use
- Load Lots, Run Devices, Alarms and Recoveries
- Recipe Management and Package Files
- Performance System Diagnostics for Motor and IO

5 - Shuttle, Soak Placets and TS Mechanical Procedures
- Kit Change Hardware Removal
- SKL Removal
- Testsite Alignments
- SLK Head Repair Offline
- Install SLK and Post Checks
- TS Kit HW Installation

Day 3

6 - IO PnP Mechanical Procedures
- Floating Lock PnP Head Alignment at Shuttle
- PnP Pitch Verification Align and Teach
- PnP Tray and Shuttle Teaching (3 point cal.)
- PnP Z Base Setup for Pick and Place
- PnP Kit Installation
- Sequential Offset and Adjustments

7 - Teaching and ACL
- Test Site Arm Teaching
- Test Site Auto Contactor Learning (ACL)

8 - Device Detection Features
- Input Shuttle Device Out of Pocket HW Intro.
- Input Device Out of Pocket Cal. Adj.
- Output Device Out of Pocket HW Intro.
- Output Device Out of Pocket Cal.

Exclipse XTA Machine Training

Level 2: Intermediate (cont/d)

Day 4

9 - Thermal
- Overview ATC Operation Eclipse
- ATC Hardware Introduction T-Core I, Heat Exchange
- Temperature User Interface Screens
- Perform SLK Thermal Calibration
- Overview of Shuttle and Soak Plate Electrical.
- Contactor Docking Heater/Device Thermal
- Heat Exchange Operations and Servicing

Day 5

10 - Electrical
- System Schematic Overview
- Trace Power Distribution
- Electronic Communication and IO
- Copley, Panasonic, Can Bus, Omron

11 - Troubleshooting
- System Troubleshooting and BKMs
- Troubleshoot Instructor Induced Bugs

12 - Q&A
- Q&A, Test, Wrap Up

Level 3: Advanced

Day 1 - 6

1 - Overview
- Level 2 Training Review

2 - Alignment
- Test Site Alignments
- Soak Plate Alignments
- Shuttle Alignments
- Input PnP Alignment
- Ouput PnP Alignment
- ATL Alignments
- ETT Alignments
- GTT Alignments
- Input Tray Platform
- Manual Tray Platform

3 - Auto Teach
- Auto Contactor Learning
- Auto Pick Learning
- Auto Pick Learning (Input and Output PnP)
- Electric Alignment Comparator
- Check and Run a Kit

Day 7

4 - CanOpen Troubleshooting with CME
- Motor/IO File Loading Procedures
- Standalone Method Loading of Motor File
- Diagnostic with CME2 Program

Day 8 - 10

5 - Electrical and Thermal Control
- Schematics Review
- Thermal Control
- Trace Power Distribution
- Electronic Communications and IO

6 - Q&A
- Q&A, Practical, Wrap Up

Who Should Attend
- Level 1 : Operator
- Level 2: Maintenance Technician
- Level 3: Advanced Technician

Training Locations
- Level 1 - Basic: on-site customer class
- Level 2 - Intermediate: on-site customer class or Cohu training facility
- Level 3 - Advanced: on-site customer class or Cohu training facility

Customized classes and on-site customer classes are available to suit your training needs.

More Information/Registration
- Contact training@cohu.com

Training Course Catalog
- Visit our handler training catalog to view our other training offerings www.cohu.com/handler-training

REV20200720

www.cohu.com/eclipse-xta
www.cohu.com/test-handlers

Cohu, Inc.
12367 Crosthwaite Circle, Poway, CA 92064-6817
Tel. +1 858.848.8000 I info@cohu.com I www.cohu.com