

HP IHPS T4xx Inkjet Web Press; Service and Support



This is a lecture style and hands on course that combines the one-week operator training with the two weeks focused on repair, maintenance and troubleshooting of the HP Color Inkjet web Press.



Course Title: HP IHPS T4xx Inkjet Web Press;
Service and Support

HP Product Number: HK394

Category: Graphics/IHPS

Course Length: 15 Days

Delivery Language: English

To Order: Graphics Arts AMS Training at
amsgraphicstraining@hp.com or 877-415-3222

Audience

- Field Service Engineers

Prerequisites

- Student must bring laptop with them to class
- Background in printing technology (traditional press operation, prepress, graphic design)
- Basic computer skills
- Electrical safety training
- Experience working with high voltage equipment (480V)
- Experience putting high voltage equipment into a safe state and checking the state of the machine using a meter.
- Experience working in electrical enclosures
- Understanding of voltage, amperage, resistance and safety
- Ability to use a multi-meter
- Experience with electrical schematics and symbols
- Computer literacy: Installing programs on a computer
- Computer networking basics
- Plumbing skills
- Understanding of pneumatics and pneumatic symbols and drawings
- Must complete Lockout/Tagout (SAH0452) course in Grow@hp
- Must complete ARC Flash Hazard Webinar ID: 00678508 in Grow@hp

Course Objectives

By the end of this class you will be able to:

- Complete scheduled maintenance procedures
- Describe the functions of components unique to the inkjet system such as ink storage and delivery, ink characteristics, the use of bonding agents, and print heads
- Describe when and how to access additional support
- List safety issues associated with the press in general and specific procedures
- List the names, locations, and functions of all major components of the press
- Perform advanced troubleshooting on the press
- Perform basic operational tasks such as startup/shutdown, loading/unloading paper rolls, webbing and tensioning the press, priming and replacing print heads
- Perform basic troubleshooting on the press and describe when and how to access additional support
- Perform maintenance and repair tasks
- Troubleshoot system-wide issues
- Use the operational software
- Achieving optimum print quality by understanding the machine's capabilities
- Enhance the longevity of press components by performing preventive maintenance tasks
- Improve overall performance and print quality
- Machine stability and dependability by performing routine maintenance, on schedule and according to prescribed procedures
- Productivity while minimizing waste and maximizing consumable life by monitoring the printing process, recognizing output problems and implementing the appropriate actions
- Reduce press down time by quickly and accurately diagnosing problems and finding solutions

Course Outline

The course includes the following modules:

Week 1 Operator Course

Module 1: Welcome

- Class Logistics
- Course Materials
- Course Overview

Module 2: Safety Overview:

- E-stop locations and proper use
- General Safety Guidelines
- Personal protective equipment
- Press access
- Safe cleaning practices
- Visual checks for leaks
- Material Safety Data Sheets
- Ergonomic hazards
- Electrical hazards

Module 3: Printheads and Inks

- Printheads
- Inks
- Bonding Agent

Module 4: Operational Overview

- Major Components
- Paper Path
- Computer Systems
- Operator Controls

Module 5: Operator Controls

- Control Panel Locations
- Navigation
- Major Functions

Module 6: Tensioning

- Load Cells
- Operator Controls
- Automatic Tension Adjustment

Module 7: Basic Startup

- Pre-startup safety checks
- Mechanical hazards
- Startup Procedures
- Calibration Procedures

Module 8: Basic Shutdown

- Shutdown Procedures
- Powering Down

Module 9: Winders

- Loading/Unloading HP Winders
- Loading/Unloading Hunkeler Winders

Module 10: Ink Delivery:

- Personal Protective Equipment
- Special Precautions for Bonding Agent
- Electrical hazards
- Handling Leaks
- System Overview
- Changing Ink Containers

Module 11: Printheads

- Printhead Health
- Printhead Handling
- Removal and Replacement
- Press access
- Servicing

Module 12: Troubleshooting

- Support Services
- Printhead Diagnostics
- In-Line process controllers
- Checking Printhead Weight

Module 13: Maintenance

- Preventive Maintenance Schedule
- Procedures

Module 14: Loading and Configuring a Print Job

- Job Management Software Overview
- Color Profiles
- Job Configuration
- Control Marks

Module 15: HP T350 (Optional Module)

- HP T300/T350 Comparison
- T350 Operation

Module 16: Recap and Conclusion

- Operator Control Panel Review
- Self-Evaluation Checklists

For more information:

Contact :

877-415-3222

Email address

amsgraphicstraining@hp.com

Course Outline

Course Evaluation

Week 2-3

Module 1: Introduction

Module 2: Safety

- Locate E-Stops
- How to place press in a safe state
- Describe hazards and how to avoid injuries

Module 3: System Overview

- Identify electronic PCA boards and functions
- Describe data flows
- Describe major DFE components and functions

Module 4: Networks

- Describe network components and the functions
- Access and use network host tables
- Troubleshoot network connectivity issues

Module 5: Fiber Optics

- Identify types of fiber optic cables used on the press
- Test and Clean FO connectors

Module 6: TOF

- Troubleshoot Top of Frame system

Module 7: Print Encoder

Module 8: Troubleshooting Tools

- Navigate electrical drawings
- Locate & use indicator lights in troubleshooting faults
- Print & interpret print diagnostics
- Use system diagnostic utilities

Module 9: DFE

- List components of the DFE and describe their functions

Module 10: Paper Path

- Perform a load cell calibration
- Adjust pneumatic settings on EMT winders

Module 11: Arch Hardware

- Describe the major components of Print Engine Station (PES)
- Describe the adjustments and maintenance tasks at the PES
- Perform a pen to paper adjustment

Module 12: Firmware

- Access and upgrade SerDes board firmware
- Access and upgrade Gauntlet board firmware trainer

Module 13: Servicing

- List and describe basic printbar servicing commands
- Program a SVS service board
- Troubleshoot Printbar issues

Module 14: Logistics

Module 15: Dryers

- List and describe common repair procedures

Module 16: Winders

- Describe major components and functions
- Common adjustment procedures

Module 17: Spare Parts

Module 18: Ink Delivery System

- Recommended PPE and associated hazards
- Describe ink delivery path
- Flow sensor adjustment

Module 19: In Line Controller

- Identify major components and functions
- Access and interpret alignment data
- Access and interpret controller data
- Shutdown and restart applications and computers in the in line controller system

Module 20: Conclusion

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