

# HP Indigo 3500/5000 Digital Press; Level 3 Operator



The Level 3 Operator course provides the advanced knowledge needed to perform hands-on troubleshooting and maintenance skills to resolve problems, install SW patches and implement Field Change Orders (FCOs). The course will cover advanced topics and the important fundamental adjustments within the press.

Receive up to a 10% discount off your service contract once the class is successfully completed. Contact your Indigo Service Manager for more details.



## Audience

Operators who will be responsible for performing advance service routines, repairs, troubleshooting, corrective and preventative maintenance.

## Prerequisites

- Has a minimum of three months experience operating the HP Indigo Digital Press after attending Level 2 training.
- Please insure that your operator knows which press and options you have so they can inform the instructor Knowledge of electrical and electronics, system schematics and PC/ Windows
- Good mechanical repair skills
- Experience using electronic test equipment
- The ability to perform repair, troubleshooting, preventative and corrective maintenance on complex electromechanical devices and computers
- Please dress appropriately for the training sessions the training/pressrooms are cold.
  - Closed-toe shoes (safety shoes are recommended)
  - Long sleeve cotton shirt (Level 2 and higher)
  - Long cotton pants (all Levels)

**Course Title:** HP Indigo 3500/5000 Digital Press; Level 3 Operator

**HP Product Number:** HF860

**Category:** Graphics/Indigo

**Course Length:** 5 Days

**Delivery Language:** English

**To Order:** Graphics Arts AMS Training at [amsgraphicstraining@hp.com](mailto:amsgraphicstraining@hp.com) or 877-415-3222

## Course Objectives

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

- Understand the operation and interaction of the major subassemblies
- Troubleshoot and repair electrical and electronic problems
- Work with technical support to solve complex problems
- Properly observe safety precautions to diagnose problems and perform repairs
- Perform mandatory preventive maintenance functions at prescribed intervals
- Perform system back-up and full software installation , upgrades and FCO

Trained HP Indigo Press Operators will positively influence press reliability by:

- Performing service routines to maintain and repair the HP Indigo Digital Press
- Reducing service calls, increasing press up time and availability
- Increasing page count and page production

## Course Outline

The course includes the following modules:

Topics Covered	Sheet	Web
2nd Transfer Adjustment	Y	Y
Advanced Troubleshooting and Diagnostics	Y	Y
Align and Level Rewinder and Unwinder		Y
Basic Components	Y	
Belt Replacement	Y	Y
BID Adjustments and System Repairs		Y
Blanket Cleaning Station Adjustments and Troubleshooting		Y
Blower Cabinet, Air Transport and Vacuum Systems	Y	
Bridge Vacuum Box Removal, Replacement and Maintenance	Y	
Chiller Maintenance and Troubleshooting	Y	
Computer Software	Y	Y
Cooling/AC System	Y	
Cylinders	Y	Y
Damper Troubleshooting	Y	
Digitax Replacement, Troubleshooting and Programming		Y
Direct Drive System Repair and Replacement	Y	Y
Drawer Removal, Replacement and Maintenance	Y	
Drive System Diagnostics	Y	
Duplex Conveyor Maintenance, Alignment and Calibration	Y	
Electrical and Press Safety Training	Y	Y
Electrical Systems and Programming	Y	Y
Electro-Static Discharge (ESD) protection	Y	Y
Encoder and Flex Joint Removal and Calibration	Y	Y
Exit Conveyors Removal, Replacement and Maintenance	Y	
External Electronic Cabinet Interface to Print Engine		Y
Feedhead Removal, Replacement and Maintenance	Y	
Fine-tune Focus	Y	
Flipping Wheel Assembly Removal, Replacement and Adjustments	Y	
Fluid Systems	Y	Y
GDU Control, Removal and Replacement	Y	
Gripper Assembly Removal, Replacement, Adjustments and Calibration	Y	

<b>Topics Covered</b>	<b>Sheet</b>	<b>Web</b>
Heating Lamps Replacement		Y
High and Low Voltage Power Supplies	Y	Y
Horizontal and Vertical Color Plane Registration	Y	
IBS System Removal, Roller Replacement and Troubleshooting		Y
ILD Replacement and Calibration	Y	
ILP Safety and its Fluids.		Y
Imaging Oil Cooling Assemblies	Y	
IMP Brake and Roller	Y	Y
In Line Densitometer (ILD)	Y	
In Line Primer (ILP)		Y
Ink Cabinet, Pump and Systems	Y	Y
Input and Output Modules Replacement and Voltages	Y	Y
Input Feed Roller (IFR) Unit Removal, Replacement and Maintenance	Y	
Installation	Y	
Interlock System	Y	
Internal RH Control	Y	
Introduction to Wiring Diagrams	Y	Y
ITM Bearings, Cylinders, Lamps and Sensors	Y	Y
Laser Uniformity	Y	
Leveling of Press and Reference Line Alignment	Y	Y
Line Spacing	Y	
Linear Bearing System Troubleshooting and Repair		Y
Main Motor Driver Replacement	Y	
Main Optical Assemblies	Y	
Maintenance and Troubleshooting	Y	Y
Major Boards	Y	Y
Mechanical Systems	Y	Y
NIP Rollers Replacement		Y
Paper Stuck to Blanket (PTSB) Calibration	Y	
Paper Transport/Path Troubleshooting and Adjustments	Y	Y
Parallel System Controller Replacement and Programming		Y
PC Computer, Network, Backup and Restore	Y	Y
Perfector Unit	Y	
Photo Imaging Plate (PIP)	Y	Y
PLC Replacement, Troubleshooting and Programming		Y
Pneumatic		Y
Preventive Maintenance	Y	Y
Print Engine Electronics		Y
Registration Issues, Belts and Replacement	Y	
Replace, Delete and Rebuild Disk Arrays	Y	Y
Rewinder and Unwinder		Y
Scaling	Y	
Sensor Programming and Replacement		Y
Skew, Deskew and Laser Uniformity	Y	
Software	Y	Y
Stacker	Y	
Water Pump and Heater	Y	Y
Web Handling System (WHS) Advanced Topics		Y
Wizards	Y	Y
Writing Head	Y	

**For more information:**

**Contact:**

877-415-3222

**Email address**

[amsgraphicstraining@hp.com](mailto:amsgraphicstraining@hp.com)

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