



# TRAINING SYLLABUS

## DFD3350 Maintenance 2

### Intended Trainees

A member of the organization which owns (or will own) the applicable machine, and:  
who has already completed the "Maintenance 1" course (or has equivalent operation skills)  
who conducts maintenance works which are not described in the Maintenance Manual of the machine

### Course Objective

To enable trainees to conduct maintenance works which are not described in the machine Maintenance Manual (only the items which you can execute without using any special tools or accessing Maker Data screen)

### Schedule

<b>Day 1</b>	<b>Orientation</b> Introduction of Training Center facility/staff and schedule <b>Identify Safety Circuit (New Electrical System)</b> <b>Verify Safety Features</b> <b>Interpret Electrical Block Diagram and Function of PCB (New Electrical System)</b> <b>Identify Axis Zero Point Position</b> <b>Identify Servo Motor Driver Error Code</b> <b>Identify Meanings of Spindle Motor Driver LEDs</b> <b>Identify Pneumatic / Water Piping</b> <b>Utilize Log Viewer / Log Analyzer Function</b> <b>Inspect DC Power Supply Output Voltage (New Electrical System)</b> <b>Identify How to Use the Dial Gauge</b> <b>Inspect Chuck Table Flatness Accuracy</b>
<b>Day 2</b>	<b>Inspect X-axis Straightness Accuracy</b> <b>Inspect Y-axis Straightness Accuracy</b> <b>Inspect X axis – Spindle axis Perpendicularity</b> <b>Inspect Z-axis Positioning Repetition Accuracy</b> <b>Adjust Theta-axis (chuck table) Flatness Accuracy</b> <b>Adjust X axis - Spindle axis Perpendicularity</b> <b>Set Dip SW and Change Control Board (New Electrical system)</b> <b>Replace Axis End Sensor (X, Y, Z-axis)</b>

	<p><b>Replace NCS Sensor</b></p> <p><b>Replace the Microscope CCD Camera</b></p> <p><b>Replace the Air Spindle Unit</b></p> <p><b>Execute Backup / Restore Machine Data</b></p> <p><b>Q &amp; A</b></p> <p><b>Closing</b></p> <p>Issuing training certificate</p> <p>Request for filling in questionnaire sheet</p>
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**Note**

The specification of the DFD3350 varies according to the customer in terms of function and accessories. For this reason, please note that the machine to be used in the training may not have the same specifications as your machine and may not be equipped with the optional accessories that your machine has.