



# FH-J

**HORIZONTAL MACHINING CENTER**  
Installation Training Class **For Toyota Distributors**  
For FH400J and FH500J Series



## 2017 SCHEDULE DATES

Course Code: FHJ2017-1

**April 24 - 27**

Course Code: FHJ2017-2

**July 17 - 20**

For additional questions, contact Kevin Hollerbach at (847) 879-8782 or [khollerbach@toyoda.com](mailto:khollerbach@toyoda.com).



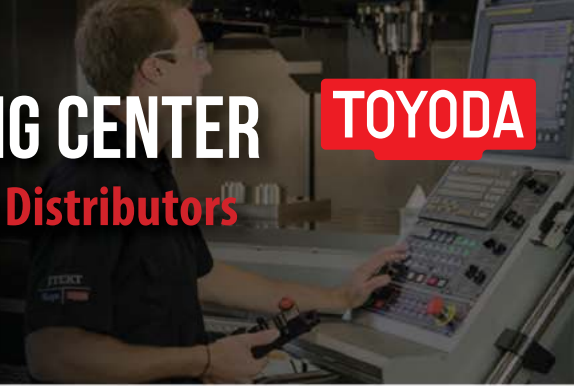
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# FH-J HORIZONTAL MACHINING CENTER

## Installation Training Class **For Toyoda Distributors**

April 24 - 27, July 17 - 20



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### Basic FH-J HMC Installation Training Outline

- Who:** Authorized Toyoda Vertical Machining Center Distributors
- What:** FH-J Horizontal Machining Center Installation Training Class
- Where:** JTEKT Toyoda Americas Corporation  
316 W. University Drive  
Arlington Heights, IL 60004
- When:** Monday through Thursday  
To accommodate for travel, class times will be as followed:  
Monday: 1 p.m. to 4:30 p.m.  
Tuesday, Wednesday & Thursday: 8:30 a.m. to 4:30 p.m.
- Class Size:** Maximum of six (6) students.  
Additional requests will be encouraged to attend a subsequent training session.
- Cost:** This class is free of charge.  
Distributors are responsible for all applicable travel and living expenses.  
Note: Toyoda has discounted rates at local hotels.

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**TOYODA**  
**SUPPORT**  
Our solutions define us.

### Training Schedule

#### **Monday (p.m.)**

##### Introductions and Tour

- Training course overview
- Toyoda Support department overview
- Meet service staff and parts department
- Facility tour

##### Product Line

- Product line information
- Training USB overview (additions to the product)
- Review machine options (special CTS, probing, etc.)
- Toyoda support point of contact
- Dealer responsibilities

#### **Tuesday**

##### FH-J Series Installation Training

- Pre-installation requirements
- Troubleshooting awareness
- Machine component

##### Device Checks

- Start up faults & checks
- Spindle chiller
- Coolant system
- Hydraulic system
- Pneumatic system
- Lubrication systems

##### Geometric Alignment

- Geometry checks
- Setting machine zero positions

##### Magazine & ATC Alignment

- Leveling
- ATC Squareness & alignments
- 2nd reference setting

#### **Wednesday**

##### Review of Electrical Prints

- How to read electrical prints
- How to use ladder to troubleshoot machining center

##### Review of Machining Center Maintenance Manual

- Show recommended checks
- Look at spare parts list

##### How to Back Up Machining Center

- TDD Explanation and Password Requests
- Backing up machine before and after install
- Prep files, email to Toyoda Machinery USA and load Fanuc options

##### Review of Machine Safety Systems

- Fanuc DCS safety system

##### M code operation

Manual function  
Error recovery

#### **Thursday**

##### ATC (Automatic Tool Changer)

- Tool changer recovery
- Review types of arms / magazine pockets and spindle types
- Alignment on machining center

##### APC (Automatic Pallet Changer)

- Pallet changer recovery
- PC inspections (pallet changer)

##### Spindle Overview

- Spindle inspection reports
- Spindle geometry checks
- Spindle room visit
- Drawbar designs
- Clamping cylinder setup

##### Warranty Parts Request

- Forms
- Contacts
- Procedures
- M.A.R.

##### Transfer Detection Device (TDD) Training & Testing

- Presentation/Examination
- Letter of Assurance

##### Service Tech Requests

- Procedures

##### HMC Training Certification Presentation

- Question and answer

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