



**TOYODA**

# HMC

## HORIZONTAL MACHINING CENTER Maintenance Training Class For Toyoda Customers



### 2018 SCHEDULE DATES

Course Code: HMC2018-1

**Jan. 29 - Feb. 2**

Course Code: HMC2018-2

**March 12 - 16**

Course Code: HMC2018-3

**June 18 - 22**

Course Code: HMC2018-4

**July 23 - 27**

Course Code: HMC2018-5

**Oct. 29 - Nov. 2**

For additional questions, call (800) 257-2985 or email [training@toyoda.com](mailto:training@toyoda.com).



JTEKT Toyoda Americas Corporation | 316 W. University Drive | Arlington Heights, IL 60004  
Corporate Phone: (847) 253-0340 | Service & Technical Support Phone: 1-800-257-2985  
Stay connected at [www.toyoda.com](http://www.toyoda.com)





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January 29 - February 2 | March 12 - 16 | June 18 - 22

July 23 - 27 | October 29 - November 2



### Basic HMC Maintenance Training Outline

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Who: **End user, Maintenance Personnel**

What: **Horizontal Machining Center Maintenance Training Class**

Where: **JTEKT Toyoda Americas Corporation**

316 W. University Drive

Arlington Heights, IL 60004

When: **Monday through Friday**

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.

Friday: 8:30 a.m. to noon

Class Size: **Maximum of six students.**

Additional requests will be encouraged to attend a subsequent training session.

Cost: Details provided upon request.

Note: Toyoda has discounted rates at local hotels.

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To Register](#)

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

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### Training Outline

#### Monday

##### 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)
- Product advancement & current product development

#### Tuesday

##### 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 (classroom)
- 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 with machining center 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

##### Review of Machine Safety Systems

- PILZ safety system
- Fanuc DCS safety system

##### M code operation

##### Manual function

##### Error recovery

#### Thursday

##### ATC (Automatic Tool Changer)

- Tool changer recovery
- Disassemble, inspect and reassemble
- Review 2 types of arms
- Alignment on machining center
  - Adjust arm and axis positions
  - Adjust parameters

##### APC (Automatic Pallet Changer)

- Pallet changer recovery
- PC inspections (pallet changer)
  - PC assembly review
  - Adjust PC position
- Programmable flow control adjustment and replacement
- Beta drive replacement

##### Spindle Overview

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

#### Friday

##### Warranty Parts Request

- Forms
- Contacts
- Procedures

##### Service Tech Requests

- Procedures

##### HMC Training Certification Presentation

- Question and answer

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