TOYODA

HMC

HORIZONTAL MACHINING CENTER

Maintenance Training Class
For Toyoda Customers

2017 SCHEDULE DATES

Course Code: HMC2017-1 **Jan. 30 - Feb. 3**	Course Code: HMC2017-2 **March 13 - 17**	Course Code: HMC2017-3 **June 19 - 23**
Course Code: HMC2017-4 **July 24 - 28**	Course Code: HMC2017-5 **Aug. 28 - Sept.1**	Course Code: HMC2017-6 **Oct. 30 - Nov. 3**

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

JTEKT Koyo TOYODA

JTEKT Toyoda Americas Corporation | 316 W. University Drive | Arlington Heights. IL 60004
Corporate Phone: (847) 253-0340 I Service & Technical Support Phone: 1-800-257-2985
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July 24 - 28, Aug. 28 - Sept. 1, Oct. 30 - Nov. 3

Basic HMC Maintenance Training Outline

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.

Click Here To Register

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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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