



TOYODA

VMC

**VERTICAL MACHINING CENTER
BASIC VMC INSTALLATION TRAINING CLASS
FOR TOYODA DISTRIBUTORS**



2017 SCHEDULE DATES

Course Code: VMC2017-1

February 13 - 17

Course Code: VMC2017-2

April 17 - 21

Course Code: VMC2017-3

June 12 - 16

Course Code: VMC2017-4

August 14 - 18

Course Code: VMC2017-5

October 23 - 27

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

JTEKT

Koyo | **TOYODA**

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Stay connected at www.toyoda.com

TOYODA
SUPPORT
Our solutions define us.

VERTICAL MACHINING CENTER 2017 INSTALLATION TRAINING CLASS FOR TOYODA DISTRIBUTORS FEBRUARY 13-17, APRIL 17-21, JUNE 12-16, AUGUST 14-18, OCTOBER 23-27



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Basic VMC Installation Training Outline

- Who:** Authorized Toyoda Vertical Machining Center Distributors
- What:** Vertical Machining Center Installation 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: 8:30 a.m. to 4:30 p.m.
Thursday: 8:30 a.m. to noon
Friday: 8:30 a.m. to noon
- 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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Basic VMC Training Outline

Outline Subject to Change

Monday (P.M.)

(JTAC Facility and Training Center)

Introductions and Tour

- Introductions - Service and Parts Staff
- Toyoda Presentation
- Facility tour

Product Line

- Product Line Presentation
- Training USB Overview
- Installation Requirements

Tuesday

(Training & Tech Center)

Installation Training C-Frame

- Installation Docs & Presentation
- Machine Leveling
- Geometric Alignment
- ATC Alignment

Coolant Systems C-Frame

- M Functions
- Timer Settings
- 1000 PSI Upgrades
- Rotary Unions
- Troubleshooting

Clamping System C-Frame

- Troubleshooting
- Maintenance & Installation

Troubleshooting C-Frame

- Manual Overview
- E-Stop String
- Door Interlock
- Coolant System
- Ladder
- ATC Recovery

Designs and Technical Bulletins

- Drawbar Designs
- Unclamp Cylinder

Wednesday

(Training & Tech Center)

Option Installation

- 4th Axis Installation
- Probe and Tool Setter Installation
- ChipBlaster and 1000 PSI Upgrades
- Magazine Upgrades
- Magazine Load Station

Applications

- Parameters, M Codes and Keep Relays
- Control Types (0i MD, 31i MB)
- General Programming
- Machine Operation
- Tool Table Setup
- Tool Life Management

Installation Training Bridge Mill

- Machine Component Installation
- Rigging Equipment
- Pre-Installation Requirements
- Installation Docs and Presentation

Foundation

- Specifications
- Leveling and Anchors

Geometric Alignment

- Geometry Checks
- Bridge Squareness

Device Installation and Testing

- Control Start-up Faults and Checks
- Z-axis Home Position
- Spindle Chiller

Thursday

(Training & Tech Center, Spindle Room)

Magazine and Vertical ATC Alignment

- I/O Bypass
- Leveling
- ATC Squareness
- Magazine Controller Function
- 2nd Reference Setting

Bridge Mill M Spec Overview

- Design
- Overview of M Spec Functions
- Operations and Programming

M Spec Installation

- Drawings and Procedures
- Initial Set-up and Rigging
- Macros and M Codes
- Operation
- Home Position Setting
- Geometry Checks
- Troubleshooting

Magazine and Horizontal ATC Alignment

- Magazine Function
- Tool Table Function
- Orientation Checking
- Troubleshooting

Designs and Technical Bulletins

- Drawbar Designs
- Unclamp Cylinder
- Encoders and Scales
- Rotary Union Brackets

Spindle Overview

- Spindle Drawings
- Spindle Room Visit
- Spindle Inspection Reports
- Spindle Geometry Checks

Friday (A.M.)

(Training Center)

Parts Ordering and Installation Procedures

- Warranty Parts
- Non Warranty Parts
- Fanuc Warranty Info and Procedure
- Detailed Reports and Requests

Transfer Detection Device (TDD) Training & Testing

- Presentation/Examination
- Letter of Assurance

Certification Presentation

- Customer Open Issues
- Quiz
- Q & A

Friday (P.M.)

- End of Class

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