



**TOYODA**

**VMC**

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



## 2018 SCHEDULE DATES

Course Code: VMC2018-1

**February 12 - 16**

Course Code: VMC2018-2

**April 16 - 20**

Course Code: VMC2018-3

**August 13 - 17**

Course Code: VMC2018-4

**October 22 - 26**

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

**JTEKT**

**Koyo** | **TOYODA**

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

# VERTICAL MACHINING CENTER

## 2018 INSTALLATION TRAINING CLASS

### FOR TOYODA DISTRIBUTORS

FEBRUARY 12-16 | APRIL 16-20  
AUGUST 13-17 | OCTOBER 22-26



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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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# VERTICAL MACHINING CENTER 2018 INSTALLATION TRAINING CLASS FOR TOYODA DISTRIBUTORS FEBRUARY 12-16 | APRIL 16-20 AUGUST 13-17 | OCTOBER 22-26



## 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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