

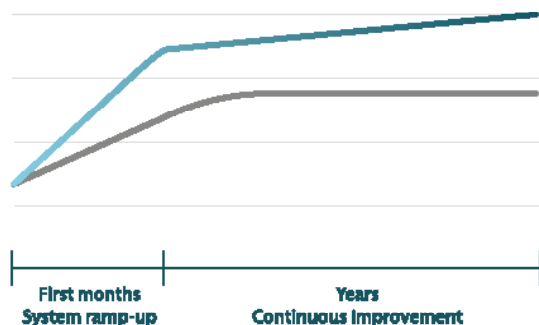
Fastems Automation Training

Basics of Pallet Automation

Kick-start your FMS production with this practical training that helps you make a fast production ramp-up and learn the system's key features.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Faster production ramp-up
- Improved productivity and machine tool utilization
- Higher availability level
- Work safety training and engagement
- Learn and develop efficient ways of working with FMS, hands on
- Steep learning curve increases job satisfaction and motivation to use the system efficiently



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

9

languages

4,000+
Trainings



FOR WHOM

Production employees without previous experience on Fastems systems



WHEN

After system installation



DURATION

1+3 days



MAX PARTICIPANTS

6



PREREQUISITE

None

AGENDA

REMOTE PRE-TRAINING (1 DAY)

- Discussion of your needs and requirements
- Introduction to Fastems FMS and your MMS version
- Preparations for on-site training

ON-SITE TRAINING (3 DAYS):

- Safety
- Starting production with Fastems FMS
- NC program and tool management
- Troubleshooting and error recovery
- Adjusting the system for your processes
- Hands-on training with the system

Contact us

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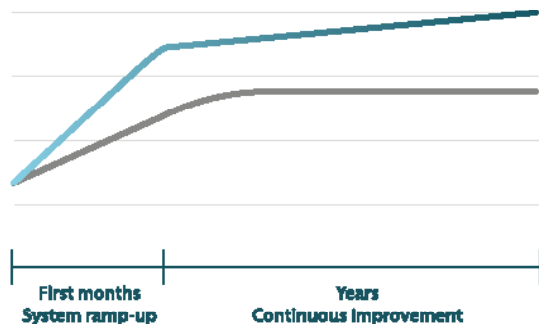
Fastems Automation Training

Basics of Part Automation

This training introduces the basic operation principles of Fastems robot system and Manufacturing Management Software (MMS). After the training you are able to start production with your robot system using pre-programmed robot programs.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Faster production ramp-up
- Improved productivity and machine tool utilization
- Higher availability level
- Work safety training and engagement
- Learn and develop efficient ways of working with FMS, hands on
- Steep learning curve increases job satisfaction and motivation to use the system efficiently



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

4,000+
Trainings

9

languages



FOR WHOM

Production employees without previous experience on Fastems part handling systems



WHEN

After system installation



DURATION

1+3 days



MAX PARTICIPANTS

6



PREREQUISITE

Basic robot training

AGENDA

REMOTE PRE-TRAINING (1 DAY)

- Discussion of your needs and requirements
- Introduction to Fastems FMS and your MMS version
- Preparations for on-site training

ON-SITE TRAINING (3 DAYS):

- Safety
- Starting production with Fastems FMS
- NC program and tool management
- Troubleshooting and error recovery
- Adjusting the system for your processes
- Hands-on training with the system

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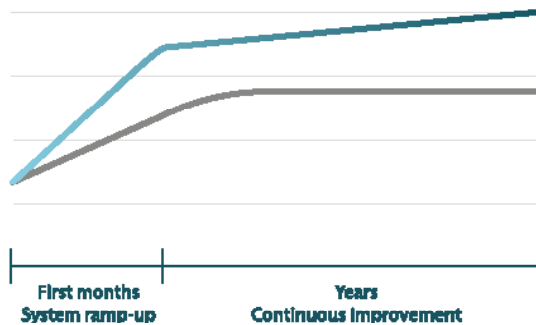
Fastems Automation Training

Basics of Work Cell Operations

This training introduces the basic operation principles of Fastems Manufacturing Management Software (MMS) and work cell production with it. After the training you are able to start work cell production and utilize the most important features of MMS.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Faster production ramp-up
- Improved productivity and machine tool utilization
- Higher availability level
- Work safety training and engagement
- Learn and develop efficient ways of working with FMS, hands on
- Steep learning curve increases job satisfaction and motivation to use the system efficiently



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

4,000+
Trainings

9

languages



FOR WHOM

Production employees without previous experience on Fastems work cell operations systems



WHEN

After system installation



DURATION

1+3 days



MAX PARTICIPANTS

6



PREREQUISITE

None

AGENDA

REMOTE PRE-TRAINING (1 DAY):

- Discussion of your needs and requirements
- Introduction to Fastems Work Cell Operation system and your MMS version
- Preparations for on-site training

ON-SITE TRAINING (3 DAYS):

- Setting up WCO environment
- Starting production with Fastems MMS
- Device basic operations and scheduling
- Hands on training with the system

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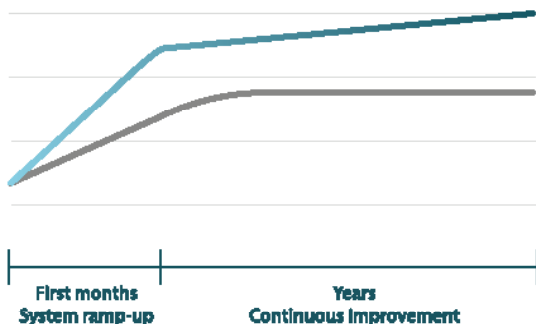
Fastems Automation Training

Basics of Integrated Work Cell Operations

Training familiarizes you with integrated Work Cell Operations (WCO) and Fastems Manufacturing Management Software (MMS). Training introduces how WCO widens production visibility and control from automated manufacturing to stand-alone operations. After the training you are able to start production with WCO.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Capability to use WCO efficiently
- Faster ramp-up of production
- Improved system productivity through wider production visibility



Fastems Automation Trainings

Get the most out of your system

4,000+
Trainings

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

9

languages



FOR WHOM

Production employees without previous experience on Fastems Work Cell Operations systems



WHEN

After system installation



DURATION

2 days



MAX PARTICIPANTS

6



PREREQUISITE

None

AGENDA

- Introduction to MMS
- Setting up WCO environment
- Adjusting system usage to customer processes
- Running production with MMS
- Logistics management
- System settings
- Practical training with the system

Contact us

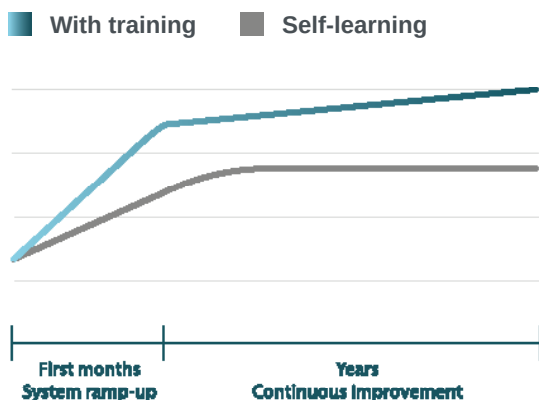
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Fastems Automation Training

Production Support

Production support is on-site support to provide assistance during system start-up and support in special situations. Service ensures smooth production ramp-up. It focuses on helping you to operate the system and to solve related problems.

Learn to use your system efficiently with Fastems training services



- Faster and smoother start-up
- Faster problem solving through on-site support
- Smoother production ramp-up
- Support after system start up improves personnel work satisfaction and trust to the new system



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

4,000+
Trainings

9

languages



FOR WHOM

Production employees who need support with the new system start-up



WHEN

After system training



DURATION

5 days



MAX PARTICIPANTS

6



PREREQUISITE

Any Fastems training

AGENDA

- Content specified case-by-case according to customer needs

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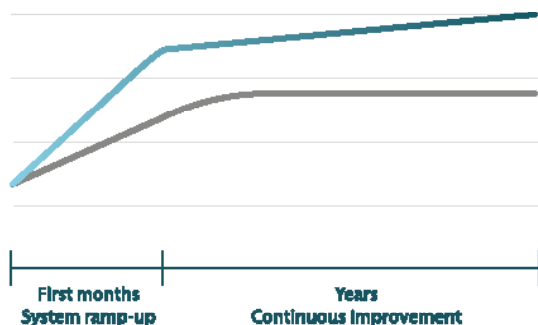
Fastems Automation Training

Basics of Autoloading

Training introduces automated loading with Fastems Autoloading Cell. After the training you are able to start production with your robot cell and recover from most common errors in the system.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Capability to use Autoloading Cell efficiently
- Faster ramp-up of production
- Improved system's productivity
- Faster error recovery
- Prevent system damages



Fastems Automation Trainings

Get the most out of your system

4,000+
Trainings

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

9

languages



FOR WHOM

Production employees without previous experience on systems with Autoloading Cell



WHEN

After system installation



DURATION

3 days



MAX PARTICIPANTS

3



PREREQUISITE

Basic robot training

AGENDA

- Introduction to the system
- Safety
- Operating Autoloading Cell with MMS
- Material management and material delivery
- Troubleshooting and error recovery
- Basic use of robot hand pendant
- Practical training with the system

Contact us

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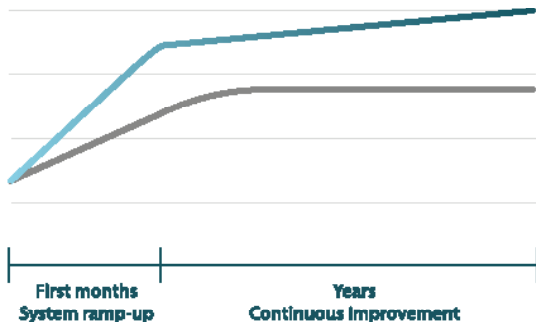
Fastems Automation Training

Basics of Tool Automation

Training introduces Fastems tool automation system and basic usage of it. After the training you are able to start production with tool automation system and recover from most common errors in the system.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Capability to use CTS/GTS efficiently
- Faster ramp-up of production
- Improved system productivity
- Faster error recovery
- Prevent system damages



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

4,000+
Trainings

9

languages



FOR WHOM

Production employees without previous experience on systems with Central Tool Storage (CTS) or Gantry Tool Storage (GTS)



WHEN

After system installation



DURATION

3 days



MAX PARTICIPANTS

6



PREREQUISITE

Basic robot training

AGENDA

- Introduction to CTS/GTS
- Safety
- NC programs in CTS/GTS
- Tool master data and tool instances
- Tools presetting procedure and workflow
- Robot manual and MDI tasks
- System and tooling settings
- Troubleshooting and error recovery

Contact us

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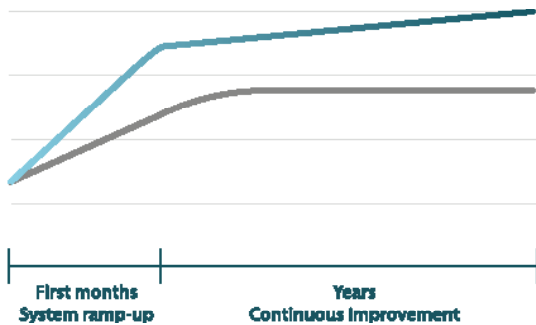
Fastems Automation Training

Basics of System Maintenance

Training introduces the basic maintenance tasks that are needed to maintain high availability for the automation system. After the training your maintenance personnel can perform basic level mechanical and electrical periodic checks and maintenance for the system.

Learn to use your system efficiently with Fastems training services

■ With training ■ Self-learning



- Achieve and maintain higher level of availability
- Ability to recover from basic level errors independently
- Longer lifetime for the system with right maintenance procedures



Fastems Automation Trainings

Get the most out of your system

+58

Net Promoter Score
(above 50 = excellent customer satisfaction)

4,000+

Trainings

9

languages



FOR WHOM

Maintenance personnel without previous experience on Fastems systems



WHEN

After system installation



DURATION

1 day



MAX PARTICIPANTS

4



PREREQUISITE

None

AGENDA

- Introduction to the system and its maintenance
- Safety
- Basic operation of the system
- System Maintenance Manual
- Crane Manual modes
- Crane reference points
- IT maintenance
- Troubleshooting

Contact us

fastems.com/contact