

Robotics Trainings

Robotics Services

OMRON



Introduction





Increase your **Robotics** knowledge to meet the requirements in your industry



Different Robot technologies

Learn about various type of robots such SCARA, Delta, axes, Mobile or Cobots. Create and integrate robotic applications with vision systems, integration and safety

Different model trainings

You can improve your robotics knowdeledge at OMRON offices, at your facilities or even remotely

Customized to your needs

You can join standard trainings or request customized ones based on the specific needs of your application

Industrial Robots





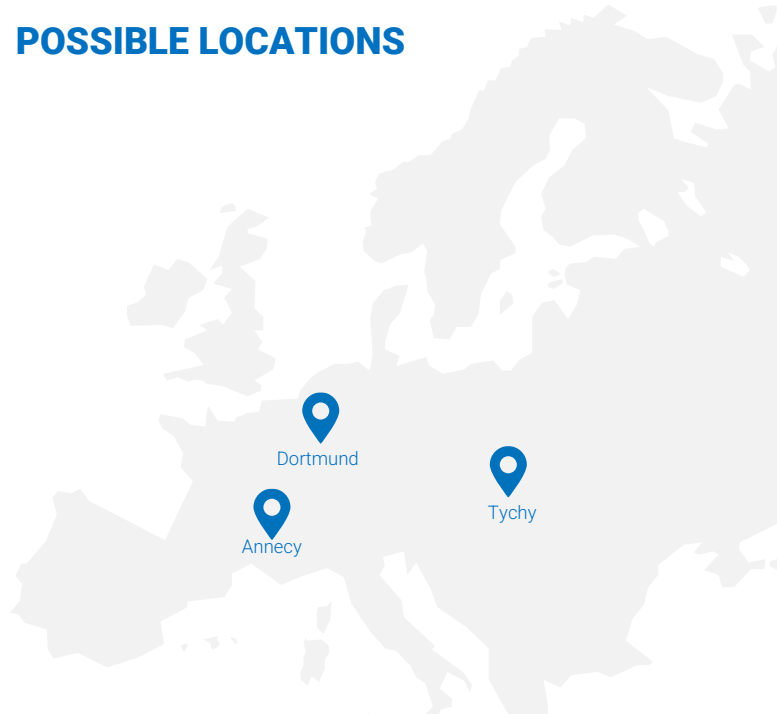
TC ROB1000 FIX PROG ADVANCE



AIMS:

The trainee is shown how to program the OMRON Fixed Robots using eV+ programming language, through both simulation and practical hands-on exercises and programming examples.

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

Programming experience in a high-level programming language such as Basic, Pascal, C, etc.

• COURSE DURATION

4 days.

• TRAINING FORMAT

Classroom.

• POSSIBLE LANGUAGES



Fixed Robots Programming Advanced

COURSE CONTENT:

- ACE Software.
- Jogging the Robot.
- 3D Visualisation.
- V+ Variables.
- V+ Programming.
- Basic and Advance Motion.
- Tool.
- Digital Signals.
- Cycle Time Optimisation
- Palletizing.
- Communication
- Error management.





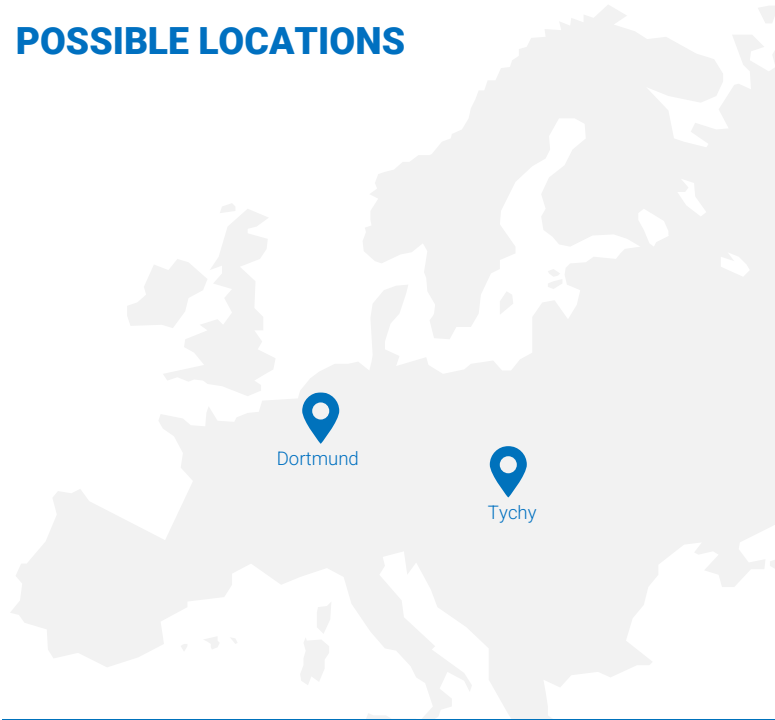
TC ROB1001 FIX OPE



AIMS:

The trainee is shown basic hardware and software knowledge of robot systems using the ACE development environment. Basic instruction set of programming language, handling peripheral devices, simple application examples and required maintenance tasks.

POSSIBLE LOCATIONS



• TARGET GROUP

Electricians and maintenance technicians.

• PRIOR KNOWLEDGE REQUIRED

No requirements.

• COURSE DURATION

2 days.

• TRAINING FORMAT

Classroom.

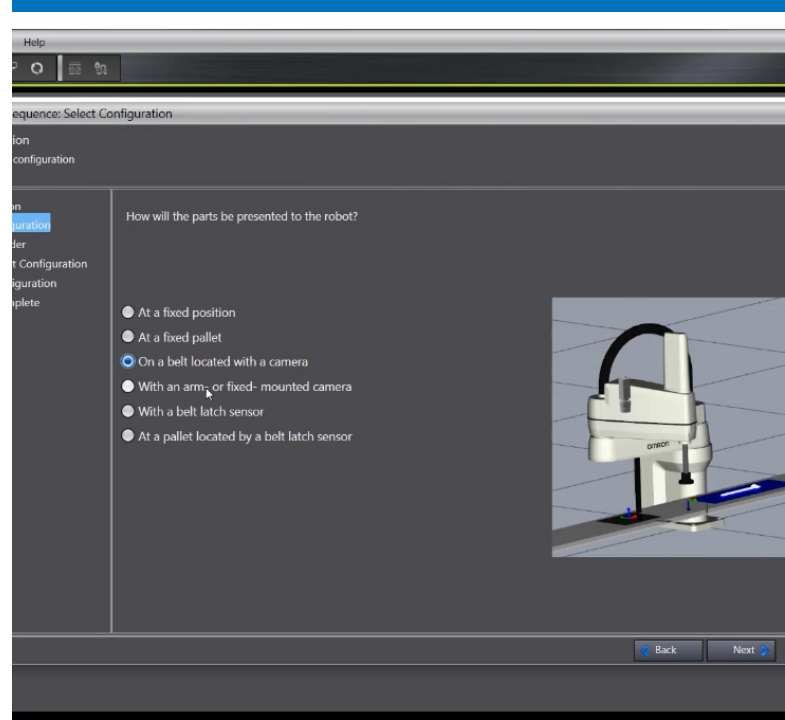
• POSSIBLE LANGUAGES



Fixed Robots Operator and maintenance

COURSE CONTENT:

- System overview: interfaces, cabling.
- Modifying/teaching positions (basics).
- Handheld control unit.
- Safety devices.
- Monitor commands.
- Application examples of the V+ programming language according to the manual.
- Maintenance.





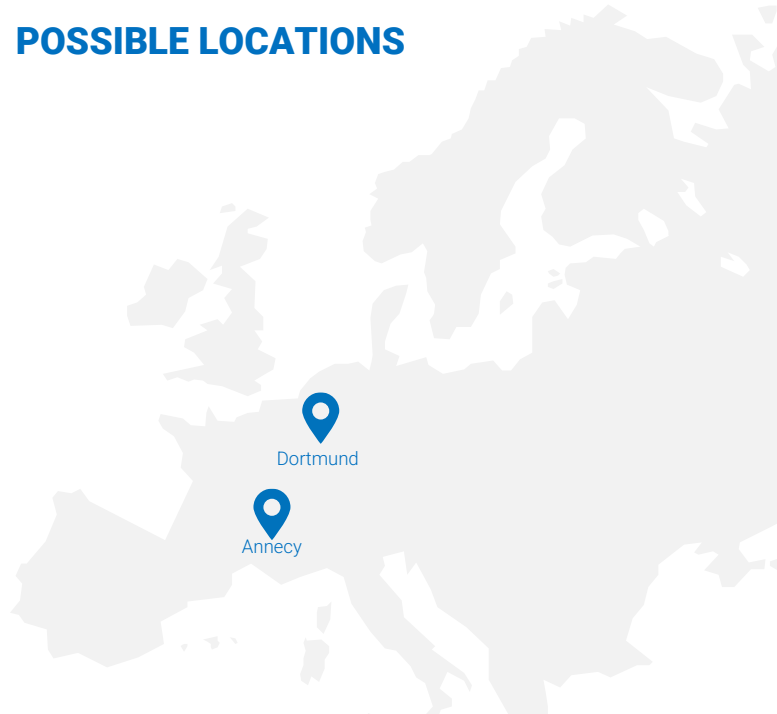
TC ROB1002 FIX PACKMANAGER



AIMS:

Learn how to develop robot-vision-tracking application programs with OMRON PackManager software for Fixed Robots. PackManager is a software tool for easy programming and parameterization of complex high-speed packaging applications

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

No requirements.

• COURSE DURATION

4 days.

• TRAINING FORMAT

Classroom.

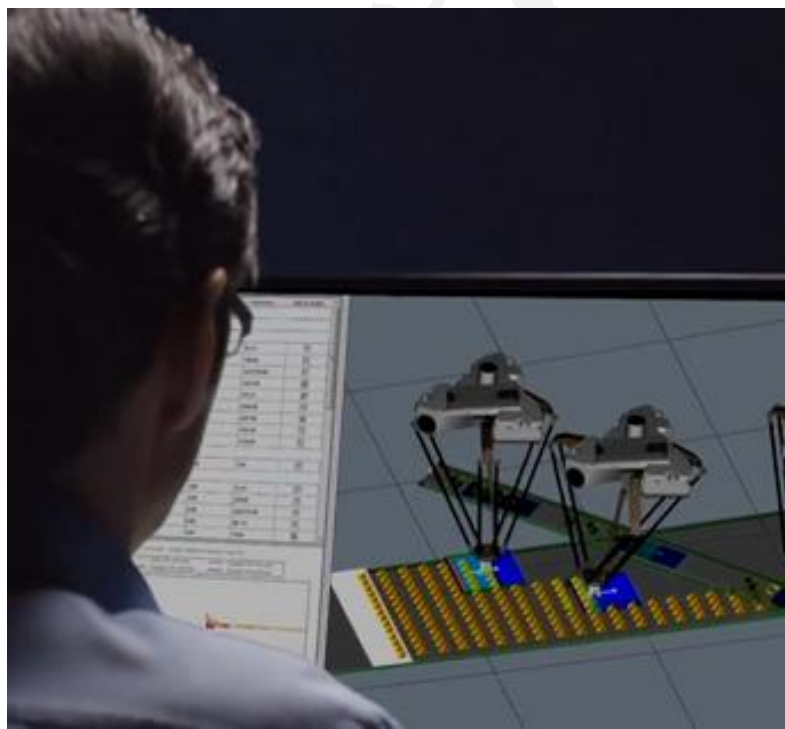
• POSSIBLE LANGUAGES



Fixed Robots ACE Pack Manager

COURSE CONTENT:

- ACE development environment.
- Software structure.
- Creation and configuration of required objects such as robots, conveyor belts, and cameras.
- Image processing: Creation of various models.
- Creation and configuration of processes.
- Creation of the specific customer application.





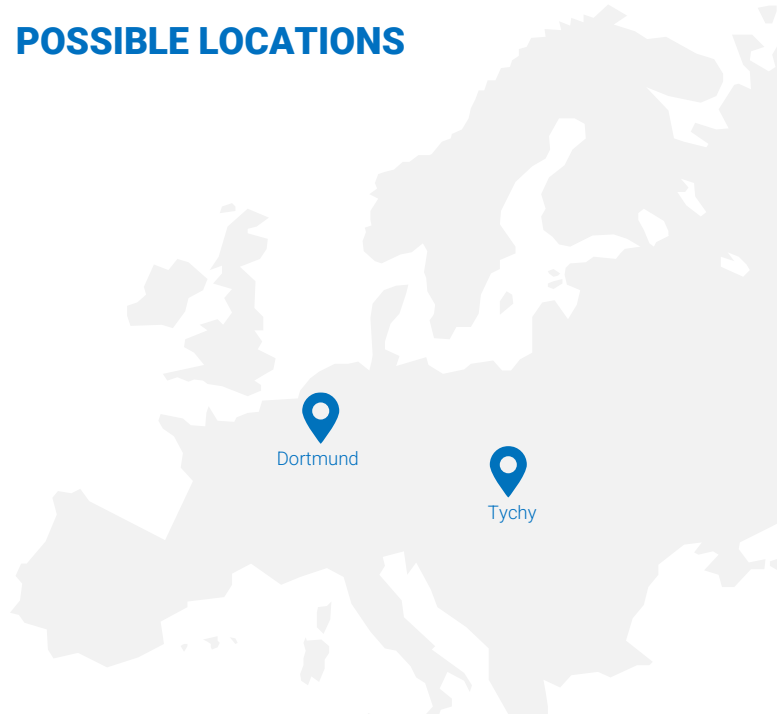
TC ROB1003 FIX VISION FEEDER



AIMS:

Learn how to develop robot applications with vision and feeder systems, using eV+ programming language and ACE Sight image processing system. Special considerations for applications involving feeder systems.

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

Programming experience in a high-level programming language such as Basic, Pascal, C, etc.

• COURSE DURATION

5 days.

• TRAINING FORMAT

Classroom.

• POSSIBLE LANGUAGES



Fixed Robots Programming, Vision and Feeder systems

COURSE CONTENT:

- ACE Development Environment.
- Calibration of the System.
- Robot Motion Commands.
- Multitasking.
- ACE Sight System Overview.
- Camera parameter, Lens Settings and Calibration.
- Feeder Program Structure and Parameterization.
- Image Processing and Model Training.
- Feeding Strategies





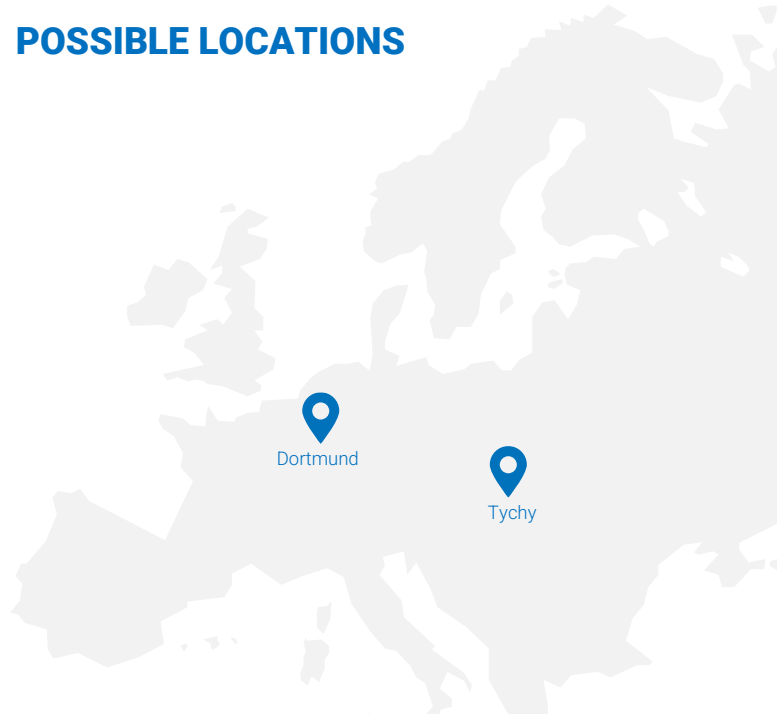
TC ROB1004 FIX VISION CONV TRAC



AIMS:

Learn how to develop robot applications with vision and conveyor tracking systems, using eV+ programming language and ACE Sight image processing system. Special considerations for applications involving conveyor tracking.

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

Programming experience in a high-level programming language such as Basic, Pascal, C, etc.

• COURSE DURATION

5 days.

• TRAINING FORMAT

Classroom.

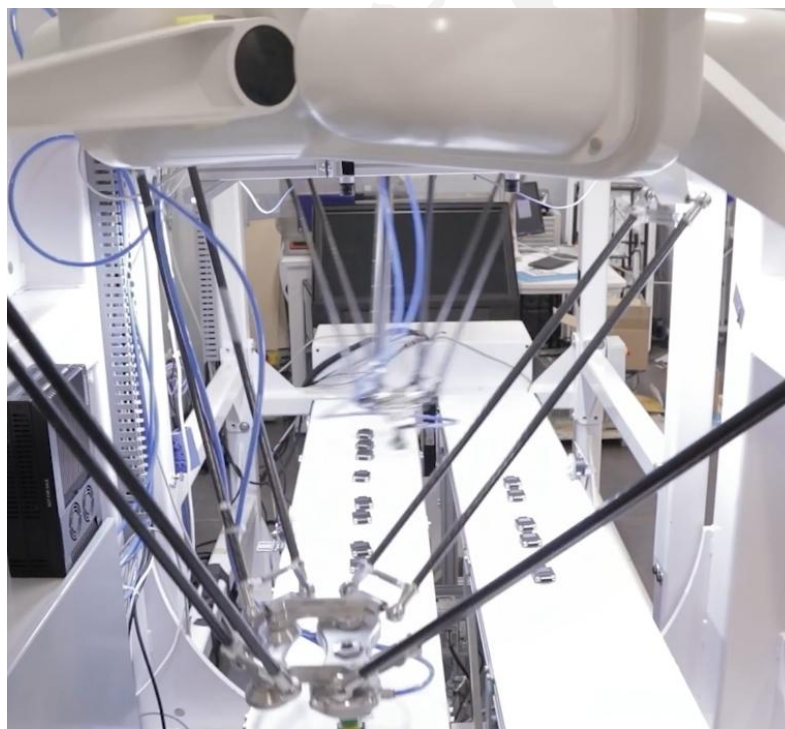
• POSSIBLE LANGUAGES



Fixed Robots Programming, Vision and Conveyor Tracking systems

COURSE CONTENT:

- ACE Development Environment.
- Calibration of the System.
- Robot Motion Commands.
- Multitasking.
- ACE Sight System Overview.
- Camera parameter, Lens Settings and Calibration.
- Image Processing and Model Training.
- Conveyor Belt Encoder (Function and System Connection).
- Conveyor Belt Calibration
- Special V+ Commands for Conveyor Belt Tracking.





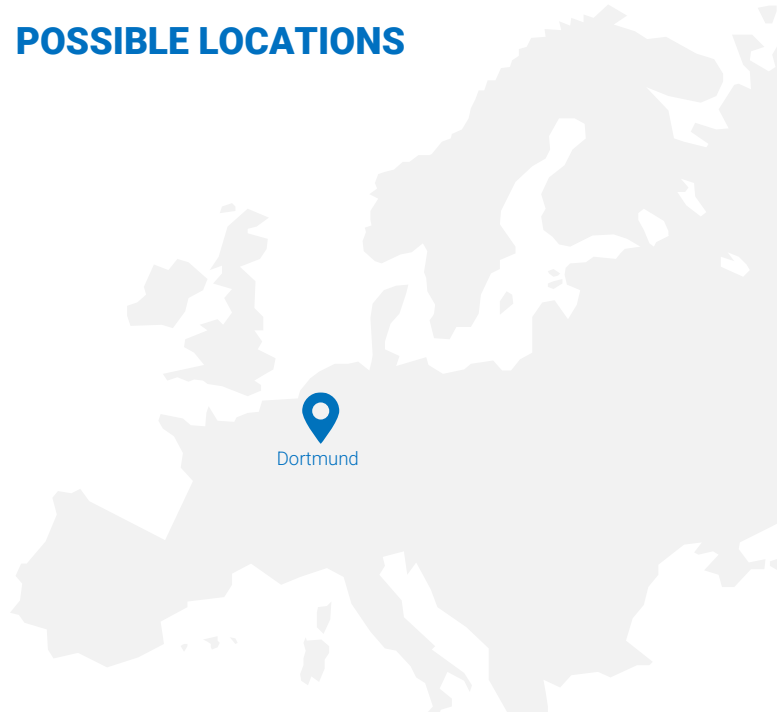
TC ROB1005 FIX VISION ADVANCE



AIMS:

Learn about advance vision systems for OMRON Fixed Robots. Operation and programming of the ACE Sight software using the ACE development environment. Image processing-controlled localization and acquisition of objects with the robot

POSSIBLE LOCATIONS



TARGET GROUP

Engineers and programmers working with OMRON fixed robot systems and integrated image processing.

PRIOR KNOWLEDGE REQUIRED

Programming skills and participation in the course "TC100 ROB FIX PROG ADVANCE - Fixed Robots Programming Advance".

COURSE DURATION

3 days.

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



Fixed Robots Vision systems, advance training

COURSE CONTENT:

- Review of the ACE development environment.
- Installation of ACE Sight on a PC.
- Optical fundamentals: distance settings, focal length, aperture, depth of field.
- Image processing tools such as line and arc finder rulers, filters, and histograms.
- Image settings using system parameters, brightness, contrast, and camera calibration.
- Sample programs for image-guided object acquisition with the robot.



TC ROB APP FIX CUSTOM



AIMS:

Learn about OMRON Fixed Robotics in a training customized to your needs

POSSIBLE LOCATIONS *(based on the custom training)*



- **TARGET GROUP**
Based on the custom training.
- **PRIOR KNOWLEDGE REQUIRED**
Based on the custom training.
- **COURSE DURATION**
Based on the custom training.
- **TRAINING FORMAT**
Classroom.
- **POSSIBLE LANGUAGES**
Based on the custom training.



Fixed Robots Customized training

COURSE CONTENT:

This training can be developed based on your needs. Learn about OMRON Fixed Robotics, being SCARA, DELTA, or 6 AXES robots. It can include vision, conveyor, feeder systems, etc.

Mobile Robots





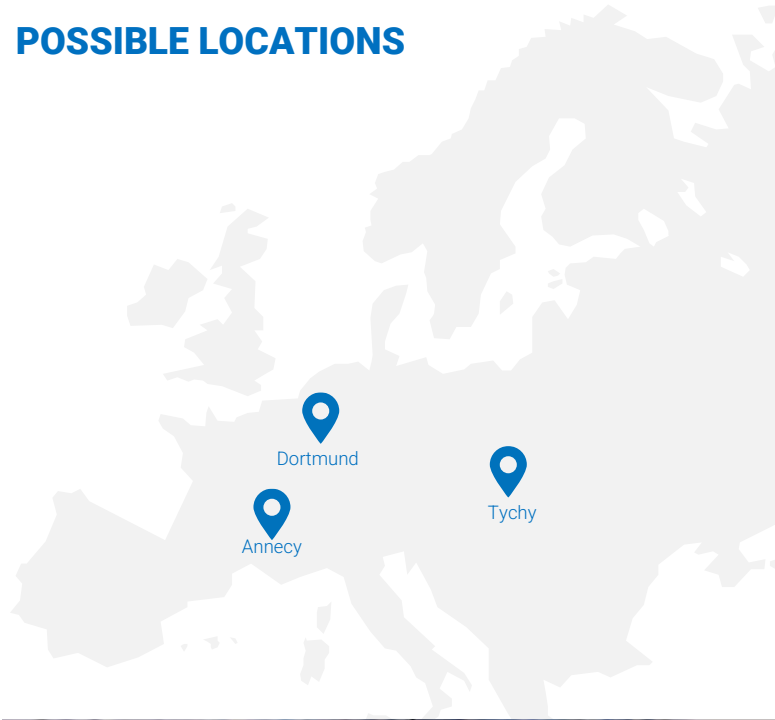
TC ROB2000 AMR PROG



AIMS:

The trainee is shown how to use OMRON Autonomous Mobile Robots (AMRs). Programming, handling, and operating a mobile robot. Configuring, viewing, and editing map files. Planning navigable routes. Using the graphical user interface to communicate with the robot.

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

No requirements.

• COURSE DURATION

4 days.

• TRAINING FORMAT

Classroom.

• POSSIBLE LANGUAGES



Mobile Robots Programming

COURSE CONTENT:

- Setting up the AMR system.
- Integrating a mobile robot into the IT infrastructure.
- User connections on the AMR Core for payload automation.
- Updating the mobile software suite.
- MobilePlanner software.
- Adapting the sonar sensors to the environment.
- Creating maps by scanning the environment.
- Debugging.
- Communications.
- Editing maps and creating traffic rules.
- Usage of accessories such as additional lasers or call buttons.
- Using robot tasks and macros at targets.



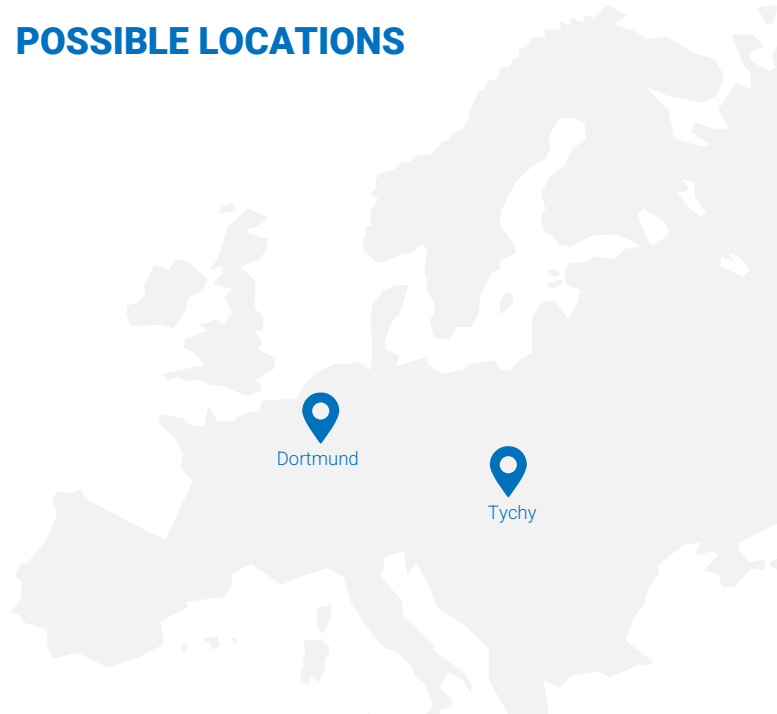
TC ROB2001 AMR FLEET



AIMS:

The trainee is shown how to use the OMRON Fleet Manager, through practical hands-on exercises and programming examples. Creating a software interface for connecting a mobile robot fleet to the internal ERP system

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers with prior knowledge of OMRON Mobile Robots

• PRIOR KNOWLEDGE REQUIRED

Participation in the course "TC110 ROB AMR PROG - Mobile Robots Programming".

• COURSE DURATION

1 day.

• TRAINING FORMAT

Classroom.

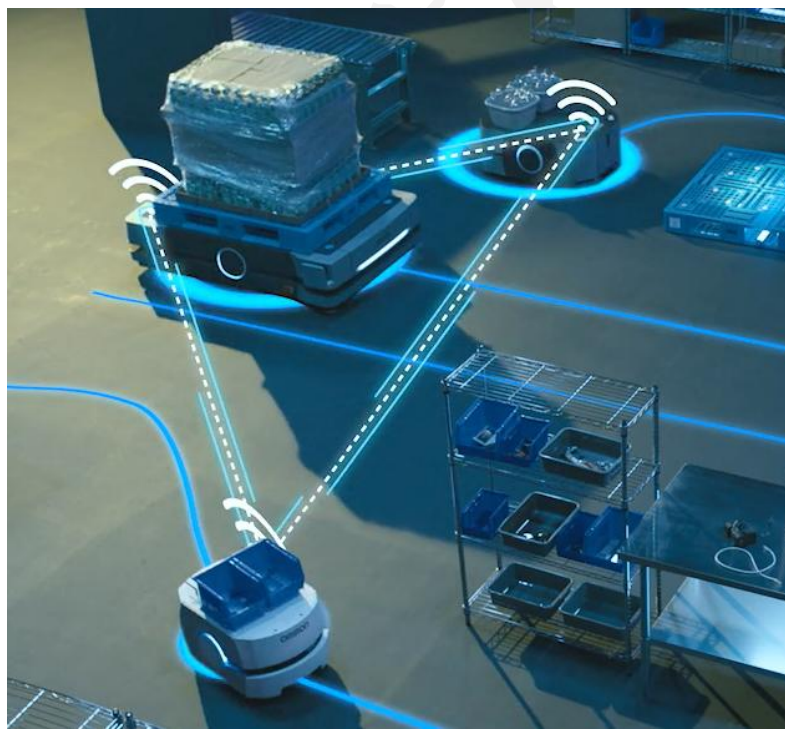
• POSSIBLE LANGUAGES



Mobile Robots Fleet Manager

COURSE CONTENT:

- Integrating LD robots into a fleet.
- Setting Fleet Manager parameters and options.
- Robot Selection.
- Payload Infrastructure.
- Traffic Management.
- Basics of Fleet Manager job queuing.
- Integration Tool Kit (ITK).





TC ROB APP AMR CUSTOM



AIMS:

Learn about OMRON Mobile Robotics in a training customized to your needs

POSSIBLE LOCATIONS *(based on the custom training)*



- **TARGET GROUP**
Based on the custom training.
- **PRIOR KNOWLEDGE REQUIRED**
Based on the custom training.
- **COURSE DURATION**
Based on the custom training.
- **TRAINING FORMAT**
Classroom.
- **POSSIBLE LANGUAGES**
Based on the custom training.



Mobile Robots Customized training

COURSE CONTENT:

This training can be developed based on your needs. Learn about OMRON Mobile Robotics, being LD-series, MD-series, HD-series or OL-series. It can include Fleet Manager, MQTT, Mobile IO Box, etc.

Cobots





TC ROB3000 COBOT BASIC

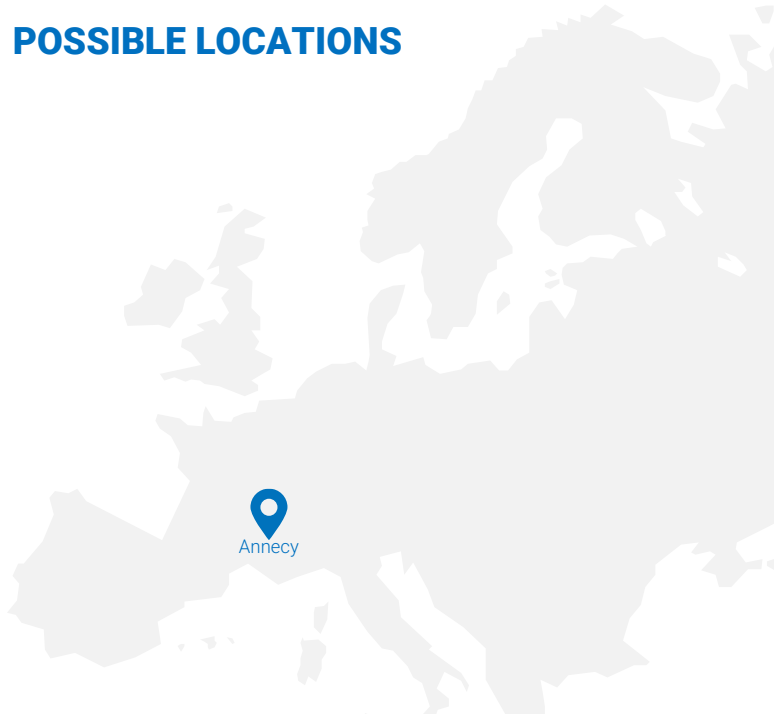


AIMS:

The trainee is shown how to use the collaborative robot (Cobot), through practical hands-on exercises and programming examples.

Get familiar with safety-related perspectives, Cobot applications, grippers and vision systems.

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

No requirements.

• COURSE DURATION

2 days.

• TRAINING FORMAT

Classroom, Remote.

• POSSIBLE LANGUAGES



Cobot Basic Programming

COURSE CONTENT:

- Operating the TM Flow interface.
- Moving the robot in the various modes.
- Teaching, changing, and copying positions.
- Creating motion programs and creating user coordinate systems.
- Editing inputs and outputs, global variables and position variables.
- Speech output and internal HMI.
- Logical links, program instructions and Thread programming.
- Installing grippers and grasping objects.
- Security settings and basics of TS15066.
- Basics of TM Vision and Camera and Vision functions.





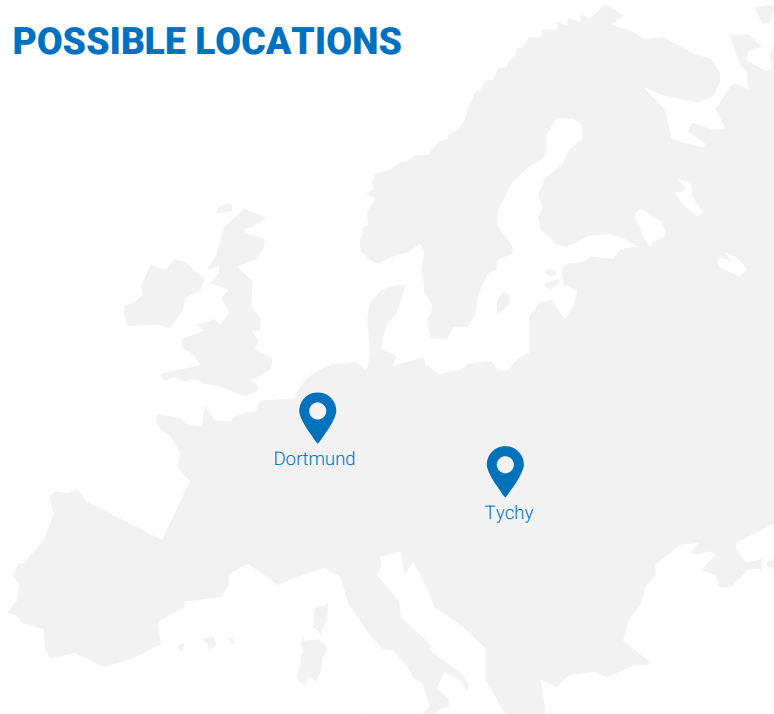
TC ROB3001 COBOT ADVANCE



AIMS:

The course covers the more advanced functionality and associated programming of the OMRON Collaborative robot. Hands on in its approach, the course is based around technical discussions followed by progressive exercises, to experience vision, gripper technology and interfacing to other systems.

POSSIBLE LOCATIONS



• TARGET GROUP

Technicians and engineers.

• PRIOR KNOWLEDGE REQUIRED

No requirements.

• COURSE DURATION

3,5 days.

• TRAINING FORMAT

Classroom.

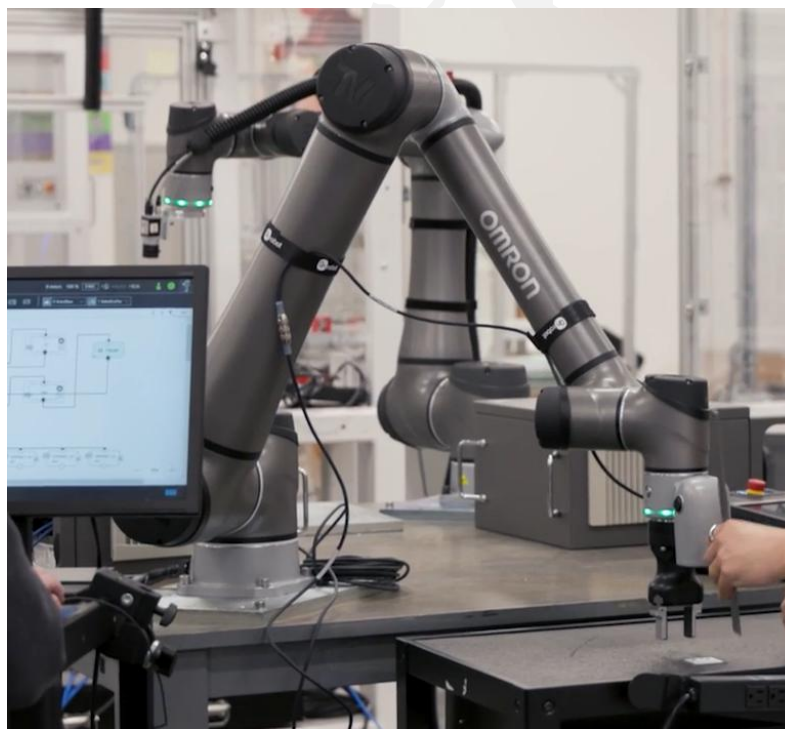
• POSSIBLE LANGUAGES



Cobot Advanced Programming

COURSE CONTENT:

- Operating the TM Flow interface.
- Moving the robot in the various modes.
- Teaching, changing, and copying positions.
- Creating motion programs and creating user coordinate systems.
- Editing inputs and outputs, global variables and position variables.
- Speech output and internal HMI.
- Logical links, program instructions and Thread programming.
- Installing grippers and grasping objects.
- Security settings and basics of TS15066.
- Basics of TM Vision and Camera and Vision functions.
- System updates, backup functions, and component installation.
- Modbus and Profinet communication.





TC ROB APP COBOT CUSTOM



AIMS:

Learn about OMRON Collaborative Robotics in a training customized to your needs

POSSIBLE LOCATIONS *(based on the custom training)*



- **TARGET GROUP**
Based on the custom training.
- **PRIOR KNOWLEDGE REQUIRED**
Based on the custom training.
- **COURSE DURATION**
Based on the custom training.
- **TRAINING FORMAT**
Classroom.
- **POSSIBLE LANGUAGES**
Based on the custom training.



Cobots Customized training

COURSE CONTENT:

This training can be developed based on your needs. Learn about OMRON Collaborative Robotics, including various models of the TM-S series, communications, grippers, vision, safety, etc.

Generic Application Trainings

A blue-tinted photograph of an industrial robotic arm in a factory setting. The arm is white and grey, with a 'TM' logo on its joint. It is positioned over a work area. In the background, a person wearing a striped shirt is visible, and the ceiling of the factory is shown with a grid of lights.



TC ROB APP CUSTOM



AIMS:

Learn about OMRON Robotics in a training customized to your needs

POSSIBLE LOCATIONS (based on the custom training)



- **TARGET GROUP**
Based on the custom training.
- **PRIOR KNOWLEDGE REQUIRED**
Based on the custom training.
- **COURSE DURATION**
Based on the custom training.
- **TRAINING FORMAT**
Classroom.
- **POSSIBLE LANGUAGES**
Based on the custom training.



Robotics Customized training

COURSE CONTENT:

This training can be developed based on your needs. Learn about OMRON different Robotics technologies, including SCARA, DELTA, 6-AXES, MOBILE and COLLABORATIVE Robots.



TC ROB APP CUSTOM ONSITE



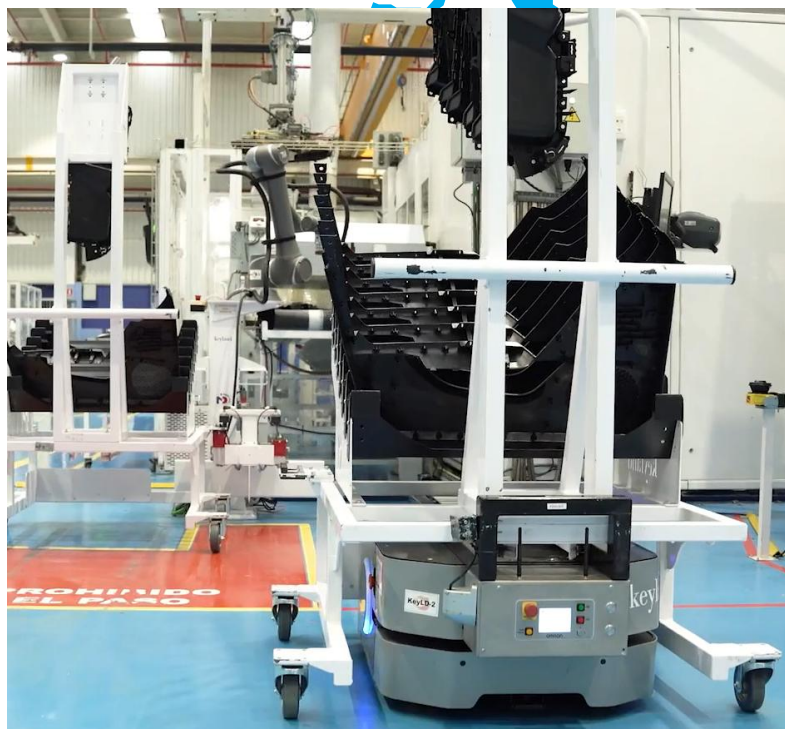
AIMS:

Learn about OMRON Robotics in a training customized to your needs at your facilities

POSSIBLE LOCATIONS
(based on the custom training)



- **TARGET GROUP**
Based on the custom training.
- **PRIOR KNOWLEDGE REQUIRED**
Based on the custom training.
- **COURSE DURATION**
Based on the custom training.
- **TRAINING FORMAT**
On-site.
- **POSSIBLE LANGUAGES**
Based on the custom training.



Robotics Customized training on-site

COURSE CONTENT:

This training can be developed based on your needs. Learn about OMRON different Robotics technologies, including SCARA, DELTA, 6-AXES, MOBILE and COLLABORATIVE Robots. This training is provided on-site at your facilities.

Maintenance Trainings





TC ROB1101 MNT ECOBRA



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support



Extended Service and Maintenance Course for Cobra 600/800 Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot



TC ROB1102 MNT COBRA S450S650



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



Extended Service and Maintenance Course for Cobra 450-650 Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot

AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support





TC ROB1103 MNT I4-L



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support



Extended Service and Maintenance Course for I4-L350/450/550 Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot
- Software installation and backup



TC ROB1104 MNT I4-H



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support



Extended Service and Maintenance Course for I4-H650/750/850 Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot
- Software installation and backup



TC ROB1105 MNT VIPER S650S850



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support

POSSIBLE LOCATIONS



• TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

• PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

• COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

• TRAINING FORMAT

Classroom.

• POSSIBLE LANGUAGES



Extended Service and Maintenance Course for Viper s650/s850 Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces, NFS, FTP, TCP/IP, Data Backup
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot





TC ROB1106 MNT QUATTRO/HORNET



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support

POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



Extended Service and Maintenance Course for Quattro/Hornet Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces, NFS, FTP, TCP/IP, Data Backup
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot





TC ROB1107 MNT iX3/iX4



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system
- Software support

POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



Extended Service and Maintenance Course for iX3/iX4 Robots

COURSE CONTENT:

- Starting and calibrating the system
- Manual operation
- Theory of the controller and control loops
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces, NFS, FTP, TCP/IP, Data Backup
- Safety devices
- Emergency stop system
- Replacing various mechanical and electrical components of the robot





TC ROB3101 MNT COBOT



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

1 day

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Knowledge of system functionality
- Fault diagnosis
- Perform preventive maintenance on the system
- Installation of a backup system



Extended Service and Maintenance Course for Cobots TM / TM-S

COURSE CONTENT:

- Safety for industrial robots and cobots
- Manual operation
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Perform preventive maintenance on the system
- Installation of a backup arm and controller
- Operating with software, upgrading and backup



TC ROB2101 MNT LD60LD90



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

2 days

Course start time on day 1: 9:00 am

Course end time on day 2: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system



Extended Service and Maintenance Course for LD60/LD90/CT130 Robots

COURSE CONTENT:

- Safety for industrial robots and cobots
- Manual operation
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Perform preventive maintenance on the system
- Installation of a backup arm and controller
- Operating with software, upgrading and backup



TC ROB2102 MNT LD250



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

2 days

Course start time on day 1: 9:00 am

Course end time on day 2: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system



Extended Service and Maintenance Course for LD250 Robots

COURSE CONTENT:

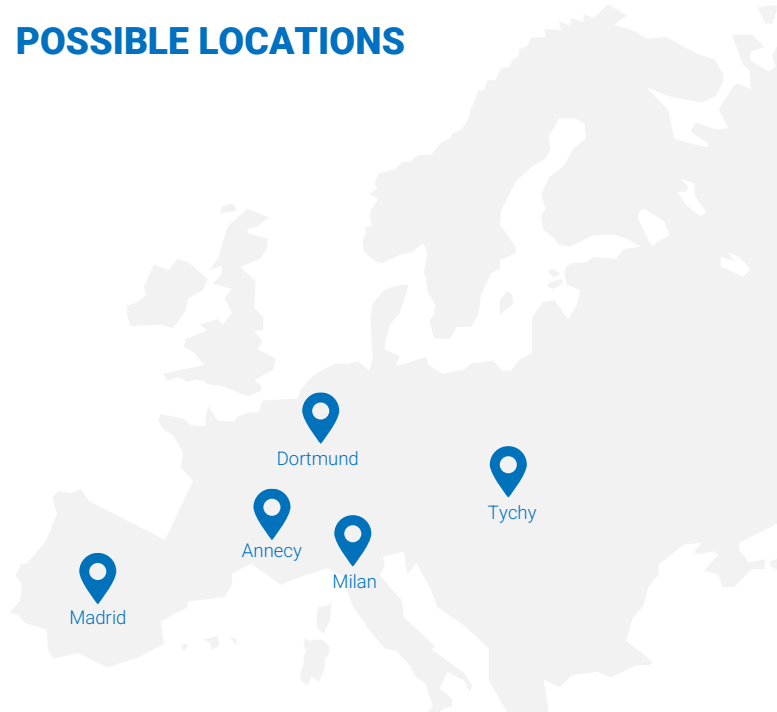
- Safety for industrial robots and cobots
- Manual operation
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Perform preventive maintenance on the system
- Installation of a backup arm and controller
- Operating with software, upgrading and backup



TC ROB2103 MNT MD650MD900



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system



Extended Service and Maintenance Course for MD650/900 Robots

COURSE CONTENT:

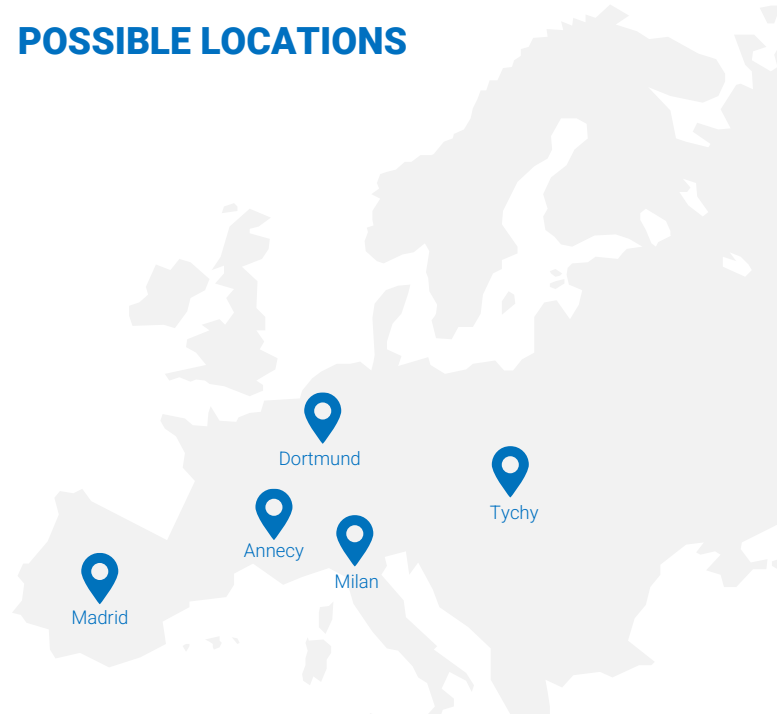
- Safety for industrial robots and cobots
- Manual operation
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Perform preventive maintenance on the system
- Installation of a backup arm and controller
- Operating with software, upgrading and backup



TC ROB2104 MNT HD1500



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

4 days

Course start time on day 1: 9:00 am

Course end time on day 4: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system



Extended Service and Maintenance Course for HD1500 Robots

COURSE CONTENT:

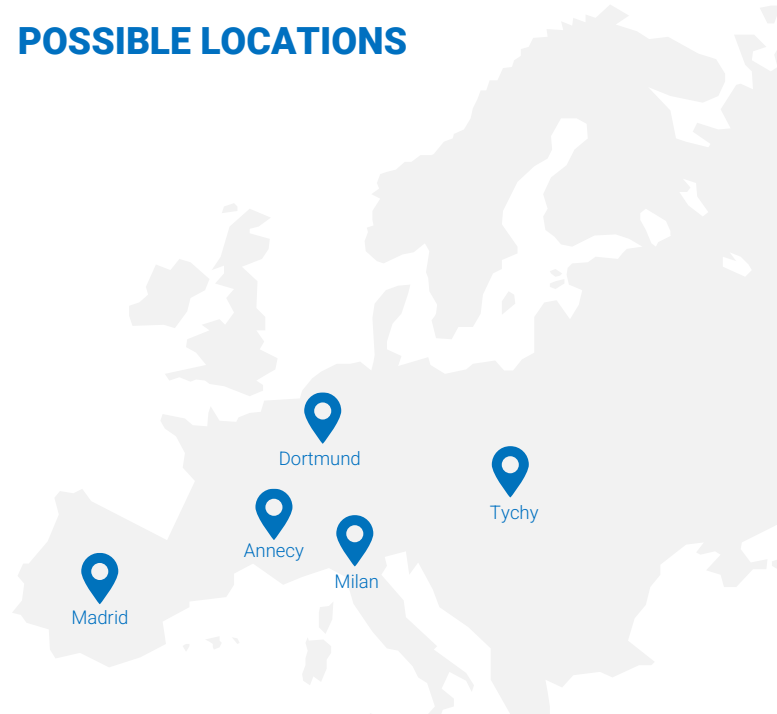
- Safety for industrial robots and cobots
- Manual operation
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Perform preventive maintenance on the system
- Installation of a backup arm and controller
- Operating with software, upgrading and backup



TC ROB2105 MNT OL450



POSSIBLE LOCATIONS



• TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

• PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

• COURSE DURATION

2 days

Course start time on day 1: 9:00 am

Course end time on day 2: 5:00 pm

• TRAINING FORMAT

Classroom.

• POSSIBLE LANGUAGES



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system



Extended Service and Maintenance Course for OL450 Robots

COURSE CONTENT:

- Safety for industrial robots and cobots
- Manual operation
- Preventive maintenance and care
- System interfaces
- Safety devices
- Emergency stop system
- Perform preventive maintenance on the system
- Installation of a backup arm and controller
- Operating with software, upgrading and backup



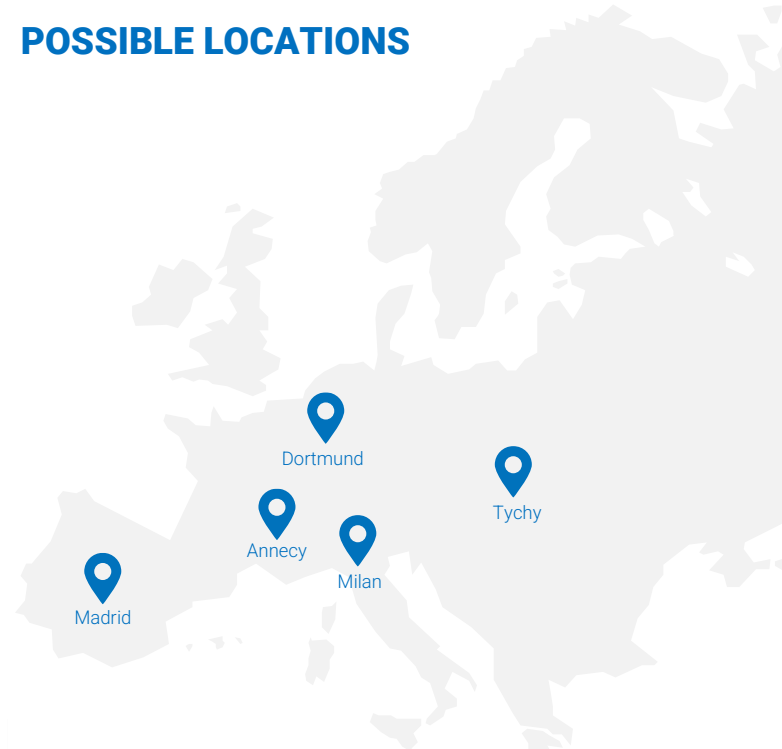
TC ROB1108 MNT ANYFEEDER



AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system

POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

2 days

Course start time on day 1: 9:00 am

Course end time on day 2: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



Extended Service and Maintenance Course for AnyFeeder

COURSE CONTENT:

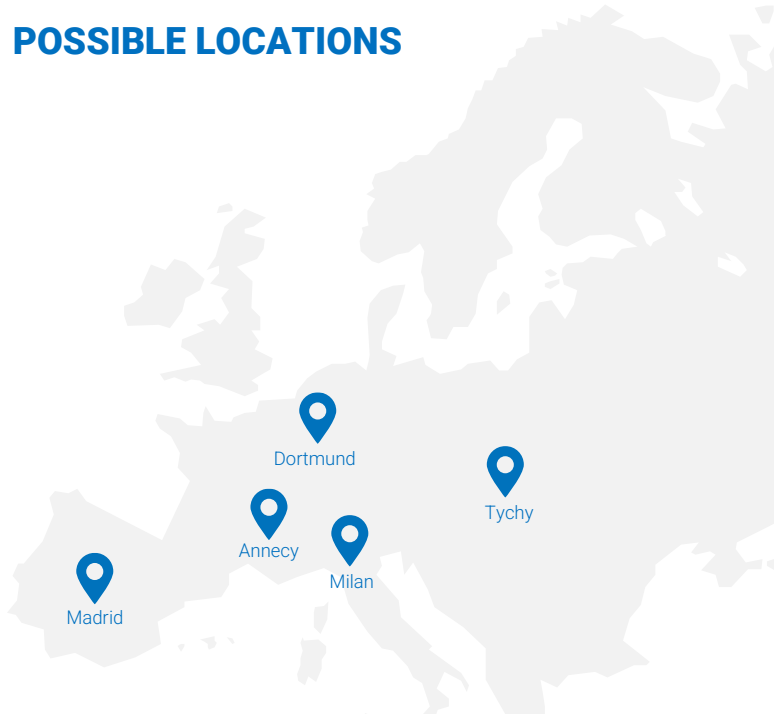
- Starting the system
- Control commands
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces
- Installing the service software
- Using the service software
- Replacing various mechanical and electrical components of the robot



TC ROB1109 MNT IPF



POSSIBLE LOCATIONS



TARGET GROUP

Electricians, electrical engineers, maintenance personnel and maintenance technicians who are responsible for the maintenance and repair of robotic systems.

PRIOR KNOWLEDGE REQUIRED

Basic knowledge of mechanics, electronics and computer use.

COURSE DURATION

2 days

Course start time on day 1: 9:00 am

Course end time on day 2: 5:00 pm

TRAINING FORMAT

Classroom.

POSSIBLE LANGUAGES



Extended Service and Maintenance Course for IPF-240/380/530

COURSE CONTENT:

- Starting the system
- Control commands
- Detection and rectification of faults
- Preventive maintenance and care
- System interfaces
- Installing the service software
- Using the service software
- Replacing various mechanical and electrical components of the robot

AIMS:

- Carry out repairs to the electronics and mechanics
- Knowledge of system functionality
- Independently locate and remedy faults in the robot and in the controller
- Fault diagnosis
- Perform preventive maintenance on the system





“ To the machine, the work of the machine. To man, the thrill of further creation. ”

- Kazuma Tateishi
Founder of Omron