

Training Catalog

Summary of Training Opportunities

Valid from 7-2018



 **Kawasaki**
Robotics

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General Information

This catalog includes some information about different training courses which we offer at Kawasaki Robotics.

The training contents are including a lot of application fields of using Kawasaki robots. We provide customized or application-oriented training courses.

Training locations

The training courses will be held at our office in Neuss or at customer side as an individual training. In case of training at customer side we have to calculate additional travel costs. Please contact us in case of an individual training at customer side and we will create an offer for you.

Training date

If you need information about the actual training dates, please call us on +49(0)2131-3426-0 or visit our webpage (www.kawasakirobot.de).

Training time

Monday to Thursday 9.00 am to 4.00 pm
(Lunch time 12.00 pm to 1.00 pm)

Costs

Please refer to the price list which you will find on the following page of this training catalog.

For further information and our general training conditions you will find on our webpage (www.kawasakirobot.de).

Summary of Training Courses

Basic Seminars

Start-up Training
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Operation Training
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**Electrical Maintenance
Training**
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Programming Training
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Advanced Seminars

**Change-over
Programming Training**
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CUBIC-S Training
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**Simulation Training
K-ROSET**
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**duAro AS-
Programming Training**
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Option Seminars

**Option Training
Courses**
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Start-up Training

The target of this training course is that the attendant can install and connect the robot system including mechanical and electrical parts.

- Target group:
- People with Electrical or Mechanical Skill
 - Electrical Technicians
- Qualifications:
- Technical Knowledge
 - Elementary English
- Contents:
- Safety Instructions
 - Mounting of Robot Arm
 - Electrical Connection of the System
 - Functional Check of the Robot System without Peripherals
- Period:
- 1 Day

Operation Training

The target of this training course is that the attendant can operate the robot system safely.

- Target group:
- System Operators
 - Executive Producers
- Qualifications:
- Technical Knowledge
 - Elementary English
- Contents:
- Safety Instructions
 - Summary of the Robot System
 - Start-up the Robot System and Shutdown
 - Safety Operation of the Robot System
 - Troubleshooting (Basic)
- Period:
- 2 Days

Electrical Maintenance Training

The target of this training course is that the attendant can do troubleshooting on the robot system. The attendant can analyse and solve electrical interferences.

- Target group:
- Maintenance Staff
 - Service Staff
 - Electrical Technicians
 - People with Electrical Knowledge
- Qualifications:
- Technical Knowledge
 - Elementary English
 - Electrical Knowledge
 - Electrical Education
- Contents:
- Safety Instructions
 - Summary of the Electrical Robot Parts
 - Configuration and Function of the Robot Controller
 - Summary of Circuit Diagram
 - Troubleshooting
- Period:
- 2 Days

Safety Notice:

When working on the robot, protective clothing must be used. We therefore ask all course participants to bring and wear safety shoes during the training period.

Programming Training

The target of this training course is that the attendant can operate the robot system safely. The attendant also can do troubleshooting and create simple programs in Block and AS-Language.

- Target group:
- System Integrators
 - Developers
 - Programmers
- Qualifications:
- Technical Knowledge
 - Elementary English
 - PC Knowledge
- Contents:
- Safety Instructions
 - Summary of the Robot System
 - Start-up the Robot System and Shutdown
 - Safety Operation of the Robot System
 - Block Programming
 - AS-Language Programming (Basic)
 - Troubleshooting (Basic)
- Period:
- 4 Days

duAro Tablet Training

The target of this training course is that the attendant can operate the robot system safely. The attendant also can do troubleshooting and create simple programs via Tablet and set up the safety module

- Target group:
- System Integrators
 - Developers
 - Programmers
- Qualifications:
- Technical Knowledge
 - Electrical/Mechanical Knowledge
 - Elementary English
 - PC / Android Tablets Knowledge
- Contents:
- Safety Instructions
 - Summary of the Robot System
 - Start-up the Robot System and Shutdown
 - Safety Operation of the Robot System
 - Programming via Tablet
 - Configuration of the safety module
- Period: 2 Days

Change-over Programming Training

The target of this training course is that the attendant can operate the robot system safely. The attendant also can-do troubleshooting and create simple programs in Block and AS-Language.

- Target group:
- System Integrators
 - Developers
 - Programmers
- Qualifications:
- Technical Knowledge
 - Elementary English
 - PC Knowledge
- Contents:
- Safety Instructions
 - Summary of the Robot System
 - Start-up the Robot System and Shutdown
 - Safety Operation of the Robot System
 - Block Programming
 - AS-Language Programming (Basic)
 - Troubleshooting (Basic)
- Period:
- 4 Days

Notice:

This training is suitable for people who have already worked with other robot manufacturers/systems.

CUBIC-S Training

The target of this training course is that the attendant can parameterize the safety module CUBIC-S and to integrate the hardware into the robot system.

- Target group:
- System Integrators
 - Developers
 - Programmers
- Qualifications:
- Technical Knowledge
 - Elementary English
 - PC Knowledge
 - Successful participation in the courses:
 - o Programming Training or
 - o Change-over Programming Training
- Contents:
- Safety Instructions
 - Integration of the safety module CUBIC-S into the robot system
 - Parameterization of the individual safety settings of the CUBIC-S module
 - Creating/Adjusting safety zones
 - Determination/interconnection of safety inputs/outputs
- Period: 2 Days

Simulation Training K-ROSET

The target of this training course is that the attendant can create own robot simulations with the PC software “K-ROSET”.

- Target group:
- System Integrators
 - Developers
 - Programmers
- Qualifications:
- Technical Knowledge
 - Elementary English
 - PC Knowledge
 - Successful participation in the courses:
 - o Programming Training or
 - o Change-over Programming Training
- Contents:
- Installation and short Summary about the Software
 - How to move the Robot in Simulation Software
 - Create and Load Tool Data
 - Create Geometrical Objects
 - Import Objects
 - Create Robot Programs
 - Analyze Cycle Time
 - Obstacle Contour
- Period:
- 2 Days

Notice:

If you bring your own PC or Notebook for this training course it would be an advantage. If the training course is held at customer side, it is necessary to bring your own PC or Notebook.

duAro AS-Programming Training

The target of this training course is that the attendant can operate the robot system safely. The attendant also can do troubleshooting and create simple programs in AS-Language and set up the safety module

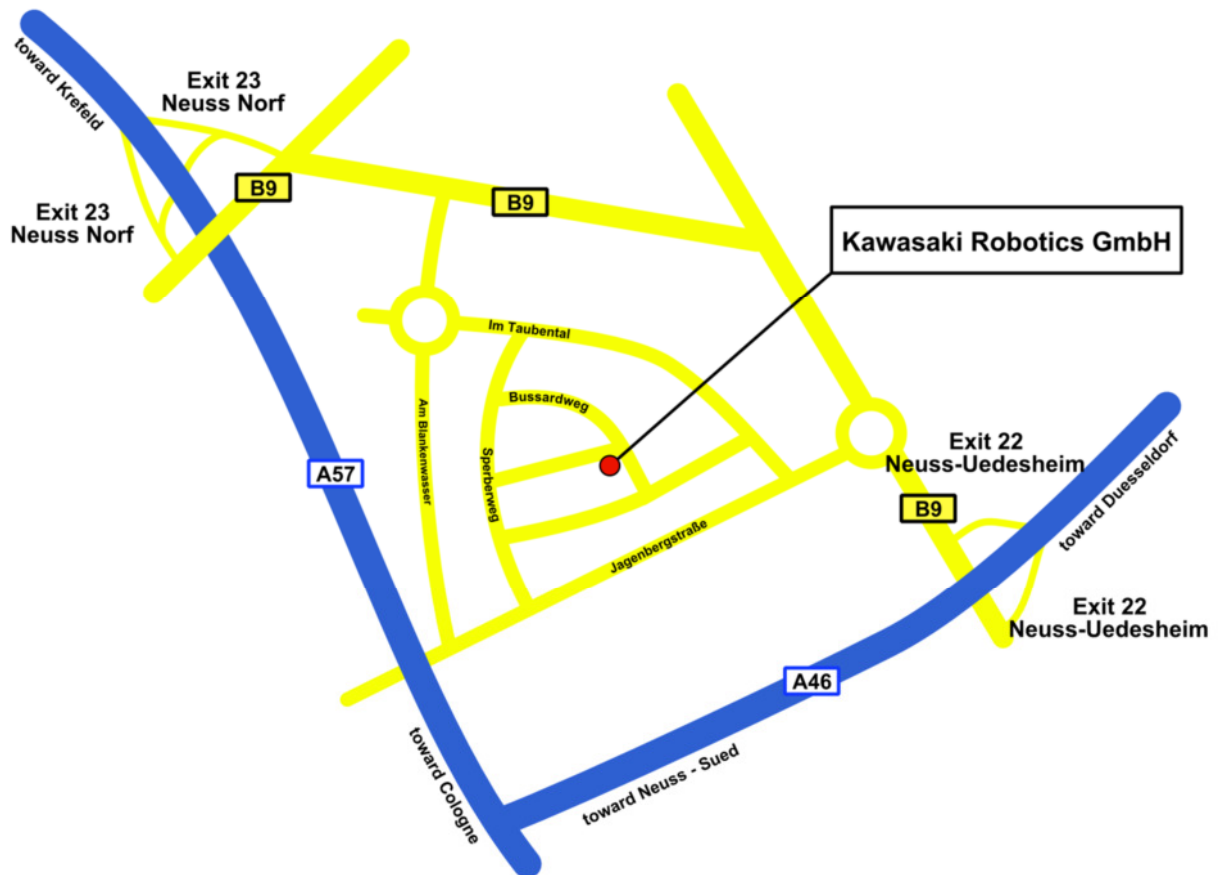
- Target group:
- System Integrators
 - Developers
 - Programmers
- Qualifications:
- Technical Knowledge
 - Electrical/Mechanical Knowledge
 - Elementary English
 - PC Knowledge
 - Successful participation in the courses:
 - duAro Tablet Training
 - Programming Training or
 - Change-over Programming Training
- Contents:
- Safety Instructions
 - Summary of the Robot System
 - Start-up the Robot System and Shutdown
 - Safety Operation of the Robot System
 - AS-Language Programming (Basic)
 - Configuration of the safety module
- Period: 1 Day

Option Training Courses

The contents of this training course are optional functions like conveyor tracking, soft absorber, collision detection, Bus systems etc. Please contact us by phone or e-mail to get course information.

- | | |
|-----------------|--|
| Target group: | - As required |
| Qualifications: | - Depends on the Contents of the Training Course |
| Contents: | - As Required |
| Period: | - 1 to 5 Days |

Direction to our Office Neuss



Address:

Kawasaki Robotics GmbH

Im Taubental 32

41468 Neuss

Phone: +49 (0) 21 31 / 34 26 - 0

Fax: +49 (0) 21 31 / 34 26 - 22

List of Hotels in Neuss

This is a list with some Hotels which are located nearby our office in Neuss.

Landhaus Hotel Neuss

Phone: +49 (0) 21 31 / 31 01 0

Huesenstraße 17, 41468 Neuss

URL: www.landhaus-hotel-schulte.com

Mercure Hotel Düsseldorf / Neuss

Phone: +49 (0) 21 31 / 1380

Am Derikumer Hof 1, 41469 Neuss

URL: www.mercure.com

Hotel-Gasthof „Vater Rhein“

Phone: +49 (0) 21 33 / 7 19 30

Oberstraße 4, 41541 Dormagen

URL: www.gasthof-vaterrhein.de/

*Price may be different (e.g. during events like fair...)

Price List

Seminar	Period	Cost per Attendant at Kawasaki*
Start-up Training	1	270,00 €
Operation Training	2	540,00 €
Electrical Maintenance Training	2	540,00 €
Programming Training	4	1080,00 €
duAro Tablet Training	2	540,00 €
Change-over Programming Training	4	1080,00 €
CUBIC-S Training	2	540,00 €
Simulation Training K-ROSET	2	540,00 €
duAro AS-Programming Training	1	270,00 €
Option Training Courses	1-5	270,00 € / 1350,00€

*These costs are for scheduled trainings, plus VAT.

Trainings at Customer Side / Individual Training

The costs for the individual training course and trainings at customer side will be calculated separately. Please contact us in this case.

Terms of Payment

Direct after invoice without cash discount.

Registration Form

Contact Data:

Company: _____
Street: _____
Zip code, City: _____
Contact Person: _____
Phone: _____
Fax: _____
E-Mail: _____

Select your Training Seminar:

- | | |
|--|---|
| <input type="checkbox"/> Start-up Training | <input type="checkbox"/> Operation Training |
| <input type="checkbox"/> Electrical Maintenance Training | <input type="checkbox"/> Programming Training |
| <input type="checkbox"/> duAro Tablet Training | <input type="checkbox"/> Change-over Programming Training |
| <input type="checkbox"/> CUBIC-S Training | <input type="checkbox"/> Simulation Training K-ROSET |
| <input type="checkbox"/> duAro AS-Programming Training | <input type="checkbox"/> Option Training Course |

Select the Date (Please contact Kawasaki Robotics GmbH for information about training dates):

Week: _____

Number of Attendance: _____

Please send this registration form by fax or e-mail to Kawasaki Robotics GmbH.

Contact

For all questions regarding training please contact us:

Kawasaki Robotics GmbH

Phone: +49(0)21 31 - 34 26 - 0

Fax: +49(0)21 31 - 34 26 – 22

E-Mail: training@kawasakirobot.de

Working hours:

Monday to Thursday 8.00 am to 05.00 pm

Friday 8.00 am to 03.00 pm