

DENSO Robotics
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DENSO
robotics

Training Center

Brochure 2024



Operator Training

Topics

- Robot system with RC8A Controller
- Robot / operating

Targeted Personnel: Robot operators

Seminar Duration: 1 Day at DENSO Training Center, 9:00 h - 17:00 h

Contents:

- ✓ Safety precautions and safe operating of robots
- ✓ Fundamentals of robots
- ✓ Fundamentals of robot controller
- ✓ Menu Structure of Teach Pendant
- ✓ Robot coordinate systems
- ✓ Manual operation of robot in different coordinate systems
- ✓ Teaching of positions
- ✓ Starting and stopping of robot programs
- ✓ Handling basic errors and error logs

No. of Participants: 2 - 6 Persons

Price: 600,-€ / Person

Note: The above mentioned cost includes lunch and drinks.

Hotel costs are not included.

Contact: Customer Support Team

@: support@denso-robotics-europe.com, t: +49 (0) 6105 2735 150



Basic Training

Topics

- Robot System with RC8A controller / robot software WINCAPS III
- Robot / operating / programming

Targeted Personnel: Robot operator / programmer

Seminar Duration: 2 Days at DENSO Training Center, 9:00 h - 17:00 h

- Contents:**
- ✓ Safety precautions and safe operating of robots
 - ✓ Calibration of a robot system (CALSET)
 - ✓ Robot coordinate systems
 - ✓ Handling errors and error logs
 - ✓ Teaching of positions
 - ✓ Creating new PACscript-Projects
 - ✓ Movement commands (MOVE L, MOVE P, DEPART, APPROACH...)
 - ✓ Accuracy / smoothing of movements
 - ✓ Teach check operating mode
 - ✓ Program execution in auto mode
 - ✓ Timer commands (DELAY, WAIT)
 - ✓ Working with Wincaps III (configuration, programming, simulation)
 - ✓ Digital I/O's (SET, RESET, WAIT)
 - ✓ Velocity control statements (SPEED, ACCEL, DECEL)
 - ✓ Working with user-defined coordinate systems
 - ✓ Collision areas (AREA), functions virtual fence and exclusive control
 - ✓ Singularity

No. of Participants: 2 - 6 Persons

Price: 1200,-€ / Person

Note: The above mentioned cost includes lunch and drinks.
Hotel costs are not included.

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Advanced Training

Topics

- Robot system with RC8A controller / robot software WINCAPS III
- Robot / programming / interfaces

Targeted Personnel: Programmer (DENSO Basic Training is a pre-requisite)

Seminar Duration: 2 Days at DENSO Training Center, 9:00 h - 17:00 h

- Contents:**
- ✓ Structured programming
 - ✓ Loops and branching (FOR...NEXT, DO...LOOP, IF THEN ELSE, ...)
 - ✓ Local and global variables, header files
 - ✓ Subprograms and calling subprograms (CALL ...)
 - ✓ Instructions (@a, WAITMOTION, MOTIONSKIP, ...)
 - ✓ User-defined error messages
 - ✓ Supervisory tasks (TSR)
 - ✓ Usage of periphery interfaces (Mini I/O, Ethernet, Profinet...)
 - ✓ External control using various interfaces
 - ✓ Working with system variables (CURRPOS, SYSSTATE...)
 - ✓ Force control (CURLMT, FORCECTRL)
 - ✓ Using predefined functions (palletizing, axis Enable...)
 - ✓ Safety Motion
 - ✓ Panel Designer

No. of Participants: 2 - 6 Persons

Price: 1200,-€ / Person

Note: The above mentioned cost includes lunch and drinks.
Hotel costs are not included.

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COBOTTA Basic Training

Topics

- Robot / robot software WINCAPS III
- Robot / controller / programming

Targeted Personnel: Robot Operator / programmer

Seminar Duration: 2 Days at DENSO Training Center, 9:00 h - 17:00 h

- Contents:**
- ✓ Safety precautions and safe operating of robots
 - ✓ Working with COBOTTA
 - ✓ Robot coordinate systems
 - ✓ Handling errors and error logs
 - ✓ Teaching of positions
 - ✓ Creating new PACscript-Projects
 - ✓ Movement commands (MOVE L, MOVE P, DEPART, APPROACH...)
 - ✓ Accuracy / smoothing of movements
 - ✓ Teach Check Operating Mode
 - ✓ Program execution in auto mode
 - ✓ Timer commands (DELAY, WAIT)
 - ✓ Working with Wincaps III (Configuration, Programming, Simulation)
 - ✓ Digital I/O's (SET, RESET, WAIT)
 - ✓ Velocity control statements (SPEED, ACCEL, DECEL)
 - ✓ Working with user-defined coordinate systems
 - ✓ Collision areas (AREA), functions virtual fence and exclusive control
 - ✓ Singularity

No. of Participants: 2 - 6 Persons

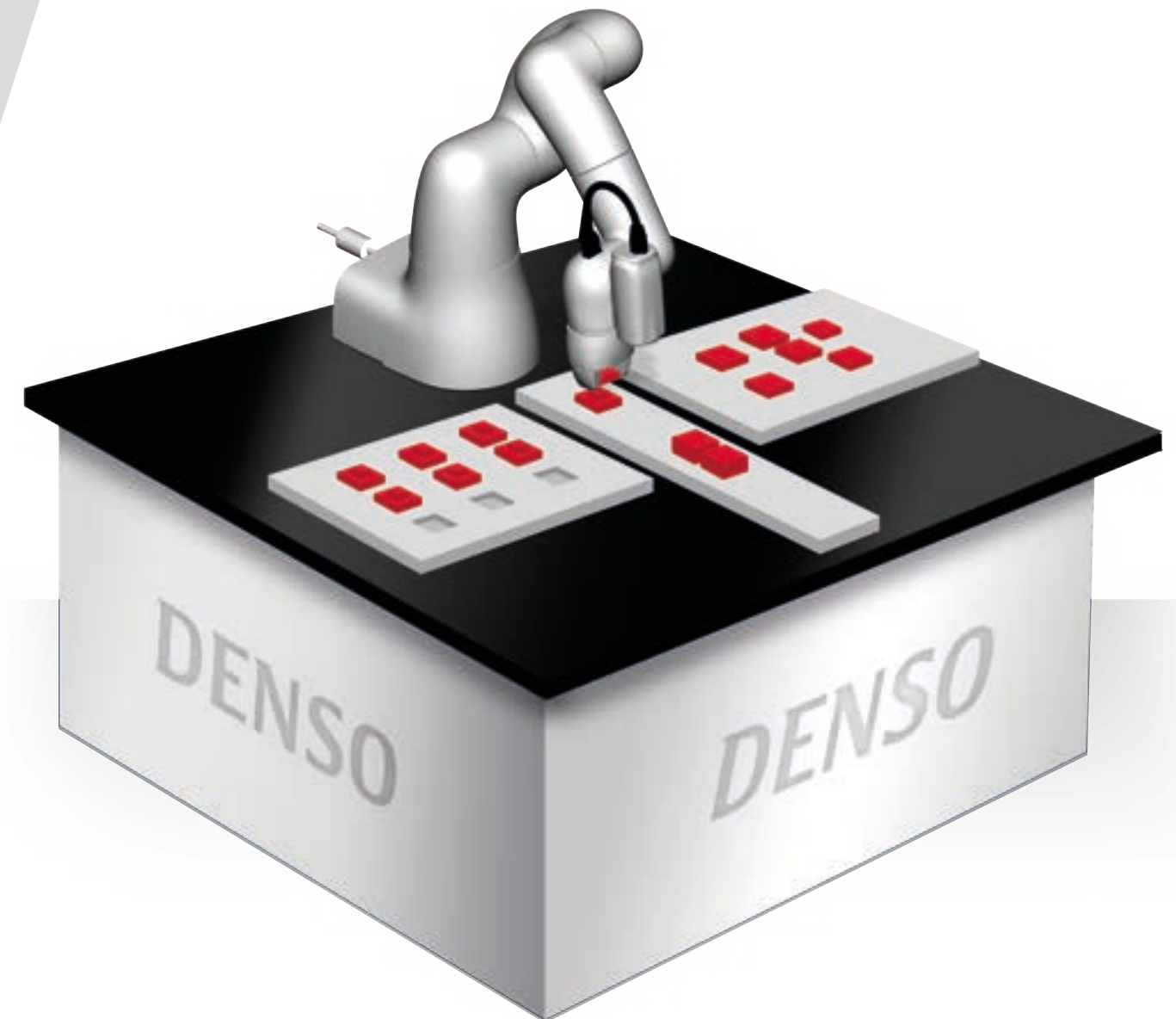
Price: 1200,-€ / Person

Note: The above mentioned cost includes lunch and drinks.
Hotel costs are not included.

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t: +49 (0) 6105 2735 150



Conveyor Tracking Training

Topics

- Robot system with RC8A controller / robot software Wincaps III
- Robot / operating / programming

Targeted Personnel: Programmer (DENSO Basic & Advanced training is a pre-requisite)

Seminar Duration: 1 Day at DENSO Training Center, 9:00 h - 17:00 h

Contents:

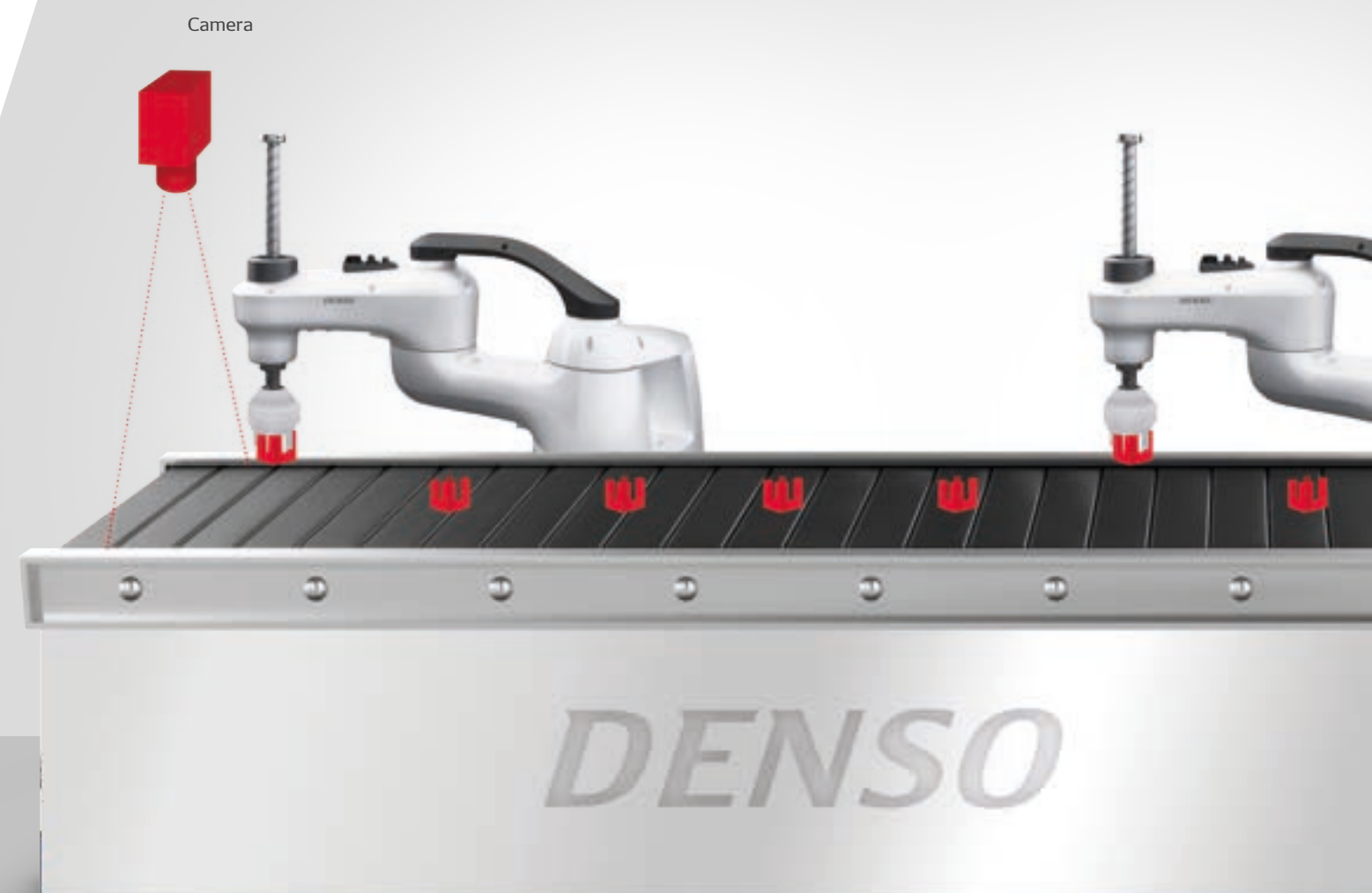
- ✓ Hardware explanation
- ✓ Commissioning of conveyor tracking system
- ✓ Sensor tracking
- ✓ Vision guided tracking
- ✓ Conveyor tracking with Master/Slave system
- ✓ Explanation of special conveyor tracking commands
- ✓ Practical exercises

No. of Participants: 2 Persons

Price: 1200,-€ / Person

Note: The above mentioned cost includes lunch and drinks.
Hotel costs are not included.

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Maintenance Training

Topics

- Robot system with RC8A controller/ robot software WINCAPS III
- Robot / controller / components

Targeted Personnel: Maintenance / operator

Seminar Duration: 1 day SCARA robots and/or

1 day 5/6 Axis and/or

1 day controller at DENSO Training Center

9:00 h - 17:00 h

- Contents:**
- ✓ Constructional overview of robots (mechanical /electrical)
 - ✓ Adjustment and calibration of robot components
 - ✓ Exchange of mechanical and electrical parts
 - ✓ Troubleshooting of real time mechanical and electrical problems

No. of Participants: 2 - 4 Persons

Price: 600-€ / Person / Day

Note: The above mentioned cost includes lunch and drinks.

Hotel costs are not included.

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ORiN2

Topics

- Robot System with RC8A controller / robot software WINCAPS III
- Robot / controller / programming

Targeted Personnel: Programmer

Seminar Duration: 1 Day at DENSO Training Center, 9:00 h- 17:00 h

- Contents:**
- ✓ Preparing the robot controller for working with ORiN
 - ✓ Establishing communication with the controller through ORiN
 - ✓ Variable read and write
 - ✓ Moving the robot through ORiN
 - ✓ Program start and stop

No. of Participants: 2 - 6 Persons

Price: 600,-€ / Person

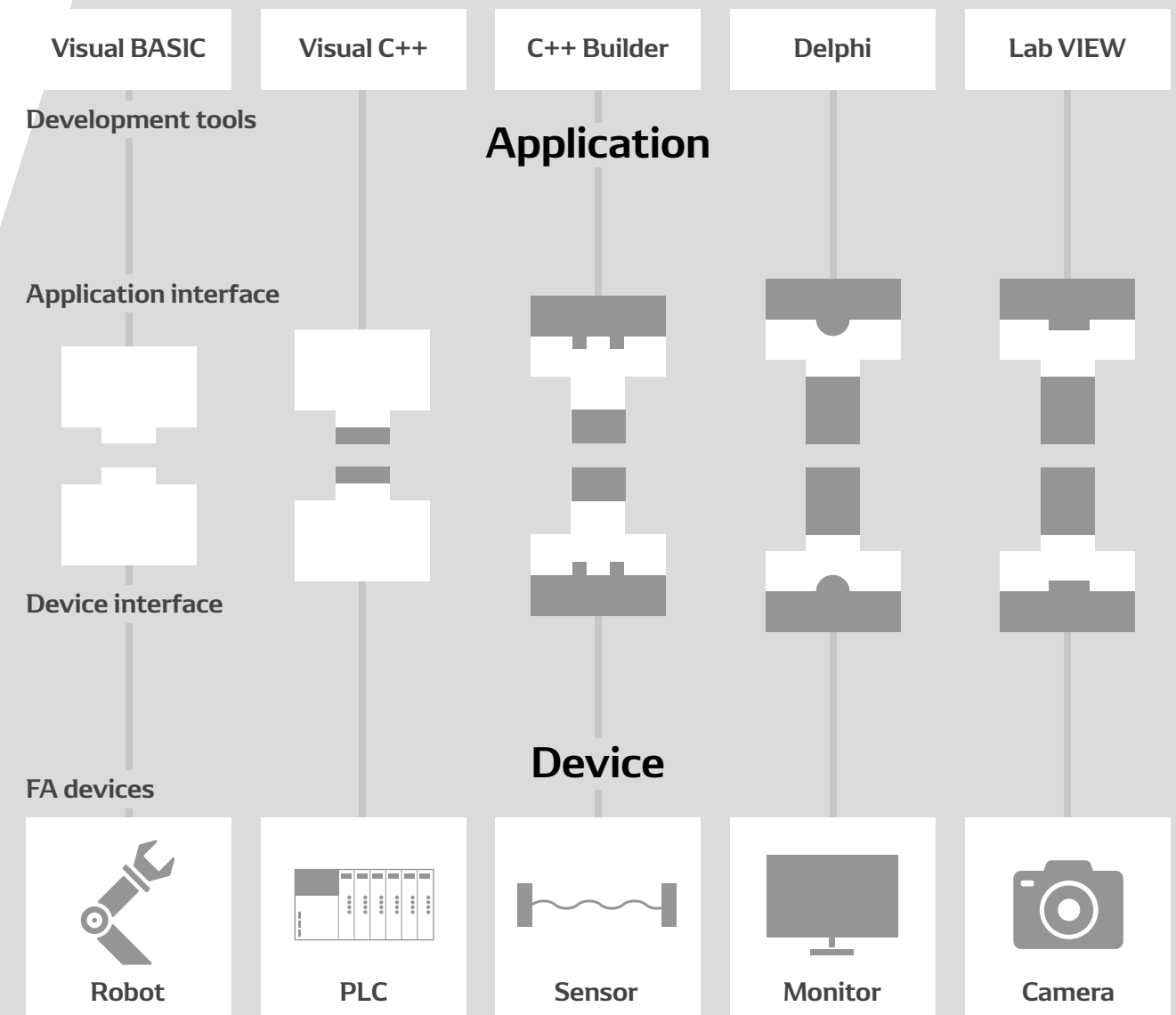
Note: The above mentioned cost includes lunch and drinks.

Hotel costs are not included

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ORiN

Training Calendar 2024

The trainings are held in German. Trainings in English are possible on request.

Q1

| January | February | March |
|----------------------------|----------------------------|----------------------------|
| 1 Mo New year | 1 Th | 1 Fr |
| 2 Tu | 2 Fr | 2 Sa |
| 3 We | 3 Sa | 3 Su |
| 4 Th | 4 Su | 4 Mo Basic Training |
| 5 Fri | 5 Mo Basic Training | 5 Tu Basic Training |
| 6 Sa | 6 Tu Basic Training | 6 We Advanced Training |
| 7 Su | 7 We Advanced Training | 7 Th Advanced Training |
| 8 Mo Basic Training | 8 Th Advanced Training | 8 Fr |
| 9 Tu Basic Training | 9 Fr | 9 Sa |
| 10 We Advanced Training | 10 Sa | 10 Su |
| 11 Th Advanced Training | 11 Su | 11 Mo |
| 12 Fr | 12 Mo | 12 Tu COBOTTA Training |
| 13 Sa | 13 Tu COBOTTA Training | 13 We COBOTTA Training |
| 14 Su | 14 We COBOTTA Training | 14 Th |
| 15 Mo | 15 Th | 15 Fr |
| 16 Tu COBOTTA Training | 16 Fr | 16 Sa |
| 17 We COBOTTA Training | 17 Sa | 17 Su |
| 18 Th | 18 Su | 18 Mo |
| 19 Fr | 19 Mo | 19 Tu Maintenance Training |
| 20 Sa | 20 Tu Maintenance Training | 20 We Maintenance Training |
| 21 Su | 21 We Maintenance Training | 21 Th Maintenance Training |
| 22 Mo | 22 Th Maintenance Training | 22 Fr |
| 23 Tu | 23 Fr | 23 Sa |
| 24 We Maintenance Training | 24 Sa | 24 Su |
| 25 Th Maintenance Training | 25 Su | 25 Mo |
| 26 Fr Maintenance Training | 26 Mo | 26 Tu ORiN Training |
| 27 Sa | 27 Tu ORiN Training | 27 We |
| 28 Su | 28 We | 28 Th |
| 29 Mo | 29 Th | 29 Fr Good Friday |
| 30 Tu ORiN Training | | 30 Sa |
| 31 We | | 31 Su |

Q2

| April | May | June |
|----------------------------|----------------------------|----------------------------|
| 1 Mo Easter Monday | 1 We Labour day | 1 Sa |
| 2 Tu | 2 Th | 2 Su |
| 3 We | 3 Fr | 3 Mo |
| 4 Th | 4 Sa | 4 Tu ORiN Training |
| 5 Fr | 5 Su | 5 We |
| 6 Sa | 6 Mo | 6 Th |
| 7 Su | 7 Tu COBOTTA Training | 7 Fr |
| 8 Mo Basic Training | 8 We COBOTTA Training | 8 Sa |
| 9 Tu Basic Training | 9 Th Ascension Day | 9 Su |
| 10 We Advanced Training | 10 Fr | 10 Mo Basic Training |
| 11 Th Advanced Training | 11 Sa | 11 Tu Basic Training |
| 12 Fr | 12 Su | 12 We Advanced Training |
| 13 Sa | 13 Mo Basic Training | 13 Th Advanced Training |
| 14 Su | 14 Tu Basic Training | 14 Fr |
| 15 Mo | 15 We Advanced Training | 15 Sa |
| 16 Tu COBOTTA Training | 16 Th Advanced Training | 16 Su |
| 17 We COBOTTA Training | 17 Fr | 17 Mo |
| 18 Th | 18 Sa | 18 Tu COBOTTA Training |
| 19 Fr | 19 Su | 19 We COBOTTA Training |
| 20 Sa | 20 Mo Pentecost Monday | 20 Th |
| 21 Su | 21 Tu Maintenance Training | 21 Fr |
| 22 Mo | 22 We Maintenance Training | 22 Sa |
| 23 Tu Maintenance Training | 23 Th Maintenance Training | 23 Su |
| 24 We Maintenance Training | 24 Fr | 24 Mo |
| 25 Th Maintenance Training | 25 Sa | 25 Tu Maintenance Training |
| 26 Fr | 26 Su | 26 We Maintenance Training |
| 27 Sa | 27 Mo | 27 Th Maintenance Training |
| 28 Su | 28 Tu | 28 Fri |
| 29 Mo | 29 We | 29 Sa |
| 30 Tu ORiN Training | 30 Th Corpus Christi | 30 Su |
| | 31 Fr | |

Training Calendar 2024

Q3

| July | August | September |
|----------------------------|----------------------------|----------------------------|
| 1 Mo | 1 Th | 1 Su |
| 2 Tu ORiN Training | 2 Fr | 2 Mo |
| 3 We | 3 Sa | 3 Tu |
| 4 Th | 4 Su | 4 We |
| 5 Fr | 5 Mo Basic Training | 5 Th |
| 6 Sa | 6 Tu Basic Training | 6 Fr |
| 7 Su | 7 We Advanced Training | 7 Sa |
| 8 Mo Basic Training | 8 Th Advanced Training | 8 Su |
| 9 Th Basic Training | 9 Fr | 9 Mo Basic Training |
| 10 We Advanced Training | 10 Sa | 10 Tu Basic Training |
| 11Th Advanced Training | 11 Su | 11 We Advanced Training |
| 12 Fr | 12 Mo | 12 Th Advanced Training |
| 13 Sa | 13 Th COBOTTA Training | 13 Fr |
| 14 Su | 14 We COBOTTA Training | 14 Sa |
| 15 Mo | 15 Th | 15 Su |
| 16 Tu COBOTTA Training | 16 Fr | 16 Mo |
| 17 We COBOTTA Training | 17 Sa | 17 Tu COBOTTA Training |
| 18 Th | 18 Su | 18 We COBOTTA Training |
| 19 Fr | 19 Mo | 19 Th |
| 20 Sa | 20 Tu Maintenance Training | 20 Fr |
| 21 Su | 21 We Maintenance Training | 21 Sa |
| 22 Mo | 22 Th Maintenance Training | 22 Su |
| 23 Tu Maintenance Training | 23 Fr | 23 Mo |
| 24 We Maintenance Training | 24 Sa | 24 Tu Maintenance Training |
| 25 Th Maintenance Training | 25 Su | 25 We Maintenance Training |
| 26 Fr | 26 Mo | 26 Th Maintenance Training |
| 27 Sa | 27 Tu ORiN Training | 27 Fr |
| 28 Su | 28 We | 28 Sa |
| 29 Mo | 29 Th | 29 Su |
| 30 Tu | 30 Fr | 30 Mo |
| 31 We | 31 Sa | |

Q4

| October | November | December |
|----------------------------|----------------------------|----------------------------|
| 1 Tu | 1 Fr | 1 Su |
| 2 We | 2 Sa | 2 Mo Basic Training |
| 3 Th German Unity Day | 3 Su | 3 Tu Basic Training |
| 4 Fr | 4 Mo Basic Training | 4 We Advanced Training |
| 5 Sa | 5 Tu Basic Training | 5 Th Advanced Training |
| 6 Su | 6 We Advanced Training | 6 Fr |
| 7 Mo | 7 Th Advanced Training | 7 Sa |
| 8 Tu ORiN Training | 8 Fr | 8 Su |
| 9 We | 9 Sa | 9 Mo |
| 10 Th | 10 Su | 10 Tu Maintenance Training |
| 11 Fr | 11 Mo | 11 We Maintenance Training |
| 12 Sa | 12 Tu Maintenance Training | 12 Th Maintenance Training |
| 13 Su | 13 We Maintenance Training | 13 Fr |
| 14 Mo Basic Training | 14 Th Maintenance Training | 14 Sa |
| 15 Tu Basic Training | 15 Fr | 15 Su |
| 16 We Advanced Training | 16 Sa | 16 Mo |
| 17 Th Advanced Training | 17 Su | 17 Tu COBOTTA Training |
| 18 Fr | 18 Mo | 18 We COBOTTA Training |
| 19 Sa | 19 Tu COBOTTA Training | 19 Th |
| 20 Su | 20 We COBOTTA Training | 20 Fr |
| 21 Mo | 21 Th | 21 Sa |
| 22 Tu Maintenance Training | 22 Fr | 22 Su |
| 23 We Maintenance Training | 23 Sa | 23 Mo |
| 24 Th Maintenance Training | 24 Sun | 24 Tu |
| 25 Fr | 25 Mo | 25 We Christmas Day |
| 26 Sa | 26 Tu ORiN Training | 26 Th 2nd Day of Christmas |
| 27 Su | 27 We | 27 Fr |
| 28 Mo | 28 Th | 28 Sa |
| 29 Tu COBOTTA Training | 29 Fri | 29 Su |
| 30 We COBOTTA Training | 30 Sa | 30 Mo |
| 31 Th | | 31 Tu New Year's Eve |

Where we are

DENSO ROBOTICS EUROPE / DENSO EUROPE B.V.

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64546 Mörfelden-Walldorf
Deutschland

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@: support@densorobotics-europe.com (für technischen Support)

w: www.densorobotics-europe.com



Hotels nearby

Holiday Inn Express Frankfurt Airport
Langener Str. 200
64546 Mörfelden-Walldorf

Hotel zum Löwen
Langstrasse 68,
64546 Mörfelden-Walldorf