

CUSTOMER TRAINING COURSE PROGRAMME

OPERATOR TRAINING









PLEASE CONTACT US.

In this brochure, you will find details of the courses available within the Konecranes Port Solutions customer training course programme.

Should you have any further questions about this customer training course programme or if you want to order one of our training courses, please do not hesitate to contact us.



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MAKING SKILLS WORK -

DEVELOP YOUR STAFF THROUGH OUR TRAINING COURSES

Making skills work – true to this motto we support you with high quality training course programme to exploit the full potential of your Konecranes Port Solutions products and to boost your productivity.

We offer you a comprehensive range of training courses that qualify your staff in the safe and efficient operation and maintenance of Konecranes Port Solutions products and their components. You benefit from our many years of experience. We continuously develop our training courses on the basis of intensive customer interaction and local expertise. With practical work carried out on the products, we ensure that your staff acquires the relevant know-how. We document the trainee's successful completion of the course with our training course certificates, which are recognised by the industry.

The most important highlights

- Modular, practice-oriented training course programme
- German-educated technical training instructors
- Operator training instructors with more than 20 years experience
- State-of-the-art equipment used in our training courses
- · Comprehensive training course documentation for each course
- · Training courses held at our training centres in
 - Düsseldorf (Germany)
 - Würzburg/Hamburg (Germany)
 - Odessa (Ukraine)
- Training courses held on site at your port
- · Recognised Konecranes Port Solutions training course certificate



TRAINING CENTRE IN DÜSSELDORF, GERMANY





Highlights:

- Highly qualified, experienced training instructors
- State-of-the-art training workplaces equipped with Notebook and PLC controlled belt model
- Technology simulator to represent the overall crane control system
- Comprehensive training course documentation for each course
- Recognised Konecranes Port Solutions training course certificate

SIMULATOR TRAINING COURSE IN DÜSSELDORF, GERMANY



Highlights:

- Highly qualified, experienced training instructors
- State-of-the-art simulator featuring many operating scenarios that are adapted to Konecranes® Gottwald mobile harbour cranes and excellent physics simulation
- Recognised Konecranes Port Solutions crane operator licence in EC card format and official training course certificate





Highlights:

- · Highly qualified, experienced training instructors
- Training course in customer's own environment with realistic conditions and following the relevant on-site procedures
- Training directly with customer's product
- Flexible training course structure switching between theory and practice
- Recognised Konecranes Port Solutions training course certificate



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PLEASE NOTE

For all on-site training courses, the respective product must be available.

1 MOBILE HARBOUR CRANE



Konecranes® Simulator training course

The advantages of the Konecranes® simulator training course at a glance:

- No blockage of cranes for productive handling alongside vessels
- · Safe work environment no damage to cranes, no injuries to persons
- · Inexpensive in comparison with training on the real crane
- Experienced training instructors
- Training of hazards and emergency situations
- Simulation of ambient conditions (weather, day/night, ...)
- Training on the handling of different cargoes and lifting gear with no need for these to be physically present.
- Easy assessment of crane operator abilities long-term success checks through repeated assessments
- · Licensing of a crane operator by the crane manufacturer



1.1 MHC FOR TECHNICIANS

Objective:

Introduction to crane operation especially for maintenance purposes

Number of trainees:

Max. 4 trainees

Duration:

3 days

Requirement:

Good hand and eye coordination

Location:

· Training Center Düsseldorf, Germany (Simulator)

At the start of the training course, the trainees refresh their knowledge of the relevant safety regulations, the basic design and functions of a Konecranes® Gottwald harbour crane and the checks required before starting operation.

The participant is trained in the basic operation of the MHC and its operating devices, with focus specifically on maintenance purposes.

- Instructions on safety procedures (theoretical)
 - Preface to simulator/crane
 - General remarks about mobile cranes
 - General safety instructions
 - Emergency stop buttons
 - Smoke detector system
 - Dead man switch
 - Daily checks
- Crane driver safety procedure
 - Load diagram
 - Visibility
 - Technical safety procedures
 - Working methods
- · Crane operation in different applications, e.g. with automatic container spreader or grab
- Lowering and raising the boom for maintenance work
- · Instructions on how to use the visualisation
- · Travelling and positioning the crane

1.2 C.O.S.T. (CRANE OPERATOR SELECTION TEST)

Objective:

Crane operator selection

Number of trainees:

Max. 20 participants for testing

Duration:

1,5 hours per trainee

Requirement:

Good hand and eye coordination

Location:

- Any Konecranes location
- · On site

The trainee's capabilities will be evaluated using a test program on a computer where special software and joysticks simulate the steering mechanism and movements of a crane. The test results will be compared to the average results of the local test group.

This method provides a first and quick indication about the natural crane operator capabilities of the candidates. And can be used to pre-select those candidates that will be able to follow a more in-depth crane operator training.

All data are analyzed in comparison with data of different candidates and experienced operators in the database. A report on the candidate's position in the global situation as well as in the group situation is provided afterwards.

An estimation of the training time span can be given for each candidate. With the help of this estimation the trainer will recommend to the customer the first two participants for the Operator Training introduction course.

1.3 CRANE OPERATOR ASSESSMENT

Objective:

- Assessment of crane operator applicants
- Assessment of experienced crane operators, including derivation of training recommendations

Number of trainees:

Max. 4 trainees per day

Duration:

1,5 hours per trainee

Requirement:

Good hand and eye coordination

Location:

- Training Center Düsseldorf, Germany (Simulator)
- On site (mobile simulator)

During this assessment, each trainee must solve prescribed problems on the crane simulator. These tasks have been specially designed for the purpose of recording the individual performance of each trainee and making an assessment of their abilities. This assessment is carried out with a professional SMS (Student Management System). According to the assessment, a recommendation for further training courses is generated. At the start of the training course, it is ensured that all trainees are informed of the relevant safety guidelines.

- Instructions on safety procedures (theoretical)
 - Preface to simulator
 - General remarks about mobile cranes
 - General safety instructions
- Instructions on how to use the simulator
 - Conditions for crane operation
 - General operating functions
- Simulation scenarios
 - Specially prepared scenarios for the assessment of aptitude as a crane operator
 - Precision exercises against the clock for assessment of hand and eye coordination
 - Operation by day and night (exclusion of night blindness as a safety criterion)
- Assessment
 - Creation of a data set in the SMS (Student Management System)
 - Assessment and personalised recommendation for future training courses
 - Start data set for assessment of an improvement curve after further training courses

1.4 MHC OPERATOR TRAINING TRIAL COURSE

Objective:

- Inexperienced crane operators learn the fundamentals of high-performance goods handling with harbour cranes.
- Crane operators with previous experience expand their knowledge to enhance their handling performance.
- Crane operators with experience of operating other crane types are introduced to the special features in the operation of Konecranes® Gottwald harbour cranes.

Number of trainees:

Max. 2 trainees

Duration:

5 days

Requirement:

· Good hand and eye coordination

Location:

- On site
- Training Center Düsseldorf, Germany (Simulator)

In realistic simulations, the trainees learn and develop their skills for high-performance goods handling with hooks, spreaders or grabs, for example. According to their individual experience, trainees are instructed in different handling scenarios, e.g. by day and by night and in different weather conditions.

Using a large number of scenarios with different types of vessels, terminal layouts and terminal environments, the training course, can be adapted to the individual conditions in the home port.

With a final test, the trainees' success in learning is evaluated and documented with a Konecranes certificate and a Konecranes crane operator licence.

- · Instructions on safety procedures (theoretical)
 - Preface to simulator
 - General remarks about mobile cranes
 - General safety instructions
 - Legend for notices, warning and prohibition signs
 - Lifting factors, hand signals and radio communication
 - Emergency stop buttons
 - Smoke detector system
 - Dead man switch
- Instructions on how to use the simulator

Continued from "MHC Operator Training trial course" course programme

- Conditions for crane operation
- Conditions for travel operation simulated with Oculus Rift
- General operating functions
- · Instructions on how to operate the machine
 - General operating functions
 - Requirements for travel and crane modes of operation
- · Instructions on how to use the visualisation
 - Visumatic® symbols/selecting language/setting the time
 - Limit switch test/safe load indicator
 - Hook and spreader selection screen
 - Fault messages
- · Lifting gear and use of lifting gear
 - Shackle between hoist and cargo
 - Supervision of actions
 - Maintenance and use of lifting gear
 - Calculating the SWL
- International hand and communication signals
 - Warning signals
 - General moves and signals
 - Vertical/horizontal movement
 - Danger
 - Radio communication
- Travelling and positioning the crane
 - Traveling and crab steering
 - Easy manoeuvring through bottlenecks
 - Positioning the crane alongside vessels for optimum loading and unloading from the hatch
 - Stabiliser pads and beams of the crane
 - Parking the crane safely (shutting down, power cable)
- Crane driver safety procedure
 - Storm warning
 - Transport of people
 - Load diagram
 - Visibility
 - Communication with technical staff
 - Port and starboard
 - Related tasks

Continued on next page

Continued from "MHC Operator Training trial course" course programme

- Crane operation
 - Slewing the crane
 - Combining the movements/boom movements
 - Following pre-determined route with an empty hook
 - Approaching cargo in a correct and safe way
 - Lifting and lowering cargo
 - Placing cargo on trailers
 - Loading and unloading cargo in and out of a hatch
 - Operating and rotating an empty grab
 - Loading and unloading bulk
 - Problem solving
- Hook operation
- Spreader operation
- Grab operation
- Lowering and raising the boom for maintenance work
- ECO driving/working
 - Load antisway
 - Building up movements and reducing movements
 - Positioning of the crane depending on the wind direction
 - Two simultaneous movements instead of three
 - Switching on and off situations
- Simulation scenarios
 - Container, general cargo and bulk material handling
 - Operation by day and night
 - Operation in good and bad weather conditions
 - Working with banksman
 - Travel and crane modes of operation
 - Radio remote control and tower cab
- Check learning objectives by means of a written test
- Assessment
 - \circ $\,$ Creation of a data set in the SMS (Student Management System)
 - Survey of individual performance before and after the training course



1.5 MHC ON SITE OPERATOR TRAINING

Objective:

- Crane operators receive practical tips and tricks for safe and high-performance goods handling in their familiar surroundings and on their own crane.
- Efficient crane operation for enhanced energy efficiency and minimisation of component wear.
- Crane operators with experience of operating other crane types are introduced to the special features in the operation of Konecranes® Gottwald harbour cranes in their familiar surroundings and on their own crane.

Number of trainees:

Max. 2 trainees

Duration:

2 weeks

Requirement:

- Good hand and eye coordination
- Experience as crane operator or successful completion of a Performance Training)

Location:

On site

At the start of the training course, the trainees refresh their knowledge of the relevant safety regulations, the basic design and functions of a Konecranes® Gottwald harbour crane and the checks required before starting operation.

In accordance with their individual experience and abilities, the trainees are trained in safe operation and high-performance goods handling with the harbour crane in their own terminal. Taking account of the local conditions, the experienced training instructors give valuable practical tips and tricks for improved handling performance.

Seminar contents:

- · Instructions on safety procedures (theoretical)
 - Preface to simulator
 - General remarks about mobile cranes
 - General safety instructions
 - Legend for notices, warning and prohibition signs
 - Lifting factors, hand signals and radio communication
 - Emergency stop buttons
 - Smoke detector system

Continued on next page

Continued from "MHC On site operator training" course programme

- Dead man switch
- Daily checks
- Crane driver safety procedure
 - Storm warning
 - Transport of people
 - Load diagram
 - Visibility
 - Communication with technical staff
 - Port and starboard
 - Basic knowledge of vessel structure (cells, gliders, bays)
 - Technical safety procedures
 - Working methods
- · Crane operation in different applications, e.g. with automatic container spreader or grab
 - Slewing the crane with spreader/grab
 - Combining movements with the spreader/grab
 - Operating and rotating the spreader/grab
 - Working with telescopic spreader
 - Work with motor grab or mechanical grab
 - Operating flippers
 - Approaching containers in a correct and safe way
 - Approaching hatches in a correct and safe way
 - Lifting and lowering containers
 - Placing containers on trailers
 - Loading and unloading containers from a deck/in a hatch
 - Handling hatch covers
 - Attachment for over-high flat containers
 - Working with twinlift spreader
 - Problem solving
 - Filling/Approaching hoppers
- ECO driving/working
 - Load antisway
 - Building up movements and reducing movements
 - Positioning of the crane depending on the wind direction
 - Two simultaneous movements instead of three
 - Switching on and off situations

AUTOMATED GUIDED VEHICLE (AGV)

2 AUTOMATED GUIDED VEHICLE (AGV)

Number of trainees:

Max. 6 trainees

Duration:

1.5 days

Location:

On site

Requirements:

For the on-site training course an AGV and a test field must be available

The objective of the training is to provide the necessary knowledge and skills to operate an AGV in a safe way. The AGV is the automated container transport system from Konecranes Port Solutions.

- · Safety instructions
 - Possible hazards caused by automated systems
 - Site specific hazards
 - · Communication with the control centre
 - Safe handling of batteries (optional)
- Operation
 - Remote control operation
 - Behaviour during operation
 - Restarting the vehicle in automated mode
 - Recovering the vehicle
 - Recovering the vehicle out of the rack (optional)
 - Functions of the service display
 - Status LEDs



STRADDLE & SPRINTER CARRIERS

3 STRADDLE & SPRINTER CARRIERS

Number of trainees:

· Max. 2 trainees

Duration:

5 days

Location:

On site

Requirements:

· Straddle or sprinter carriers must be available



The objective of the training course is to provide the necessary knowledge and skills to operate a straddle or sprint carrier in a safe and productive way.

Seminar contents:

- General
 - Understanding the functions
 - Daily checks
 - Travel functions checks
 - Stability, load, determining the centre of gravity
 - Handling the vehicle
 - Safe and efficient driving
 - Dealing with risks
 - Terminal safety regulations
 - Rules of courtesy
- · Tour of the vehicle
 - Check the vehicle from both sides and from underneath
 - Access to the vehicle
 - Engine and turbo
 - Brakes
 - Cooling system
 - Lights
- Driving the straddle carrier & sprinter carrier (unloaded)
 - Preventive checks
 - Testing all movements
 - Test 20', 40', twinlift spreader
 - Gear speeds
 - Observing and checking environment
 - Risk control

Continued on next page

STRADDLE & SPRINTER CARRIERS

Continued from "Straddle & sprinter carriers" course programme

- Working with the straddle carrier & sprinter carrier (unloaded)
 - Approaching the container
 - Driving parallel over the container
 - Spreader position
 - Spreader on top of container
 - Attaching containers with the hook
 - Driving height
 - Observing and checking environment
 - Positioning the container
 - Centring the spreader
 - Driving height after unloading container
- · Working with the straddle carrier & sprinter carrier below crane
 - According to the terminal procedures
- Practice
 - Working 1 high
 - Working 2 high
 - Working 3 high
 - Overheight, overwidth, overlength
- Practice with twinlift spreader
 - Positioning 20' containers
 - Terminal guidelines for twinlift spreaders
- ECO driving/working
 - Theoretical and practical lessons
 - Tyre economy when driving and manoeuvring
 - Starting procedure
 - Parking procedure
 - Turbo saving actions

REACH STACKER

4 REACH STACKER

Number of trainees:

Max. 3 trainees

Duration:

3 days

Location:

On site

Requirements:

· Reach stacker must be available

The purpose of the training is to provide the necessary knowledge to handle and operate the reach stacker in order to handle and move containers in a safe and productive way.

Seminar contents:

- General
 - Reach stacker technical knowledge
 - Reach stacker daily maintenance pre-use check
 - Lifting and lowering containers in a safe way
 - Special technique for loading and stacking containers 4 to 5 high
 - Stability, load, determining the centre of gravity
 - Risk detection and safety
- · Theoretical introduction
 - Getting acquainted with the inside of the reach stacker
 - Pre-use check
 - The control panel
 - Symbols (safety and driving symbols)
 - Engine and turbo
 - Hydraulic system
- Practical introduction
 - How to operate the reach stacker
 - The control panel
 - Reach stacker safety instructions
- · Working with the reach stacker
 - Driving the reach stacker
 - How to approach the container
 - Positioning the spreader
 - Checking ground conditions for ability to absorb reach stacker movements
 - Tyre economy when driving and manoeuvring

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REACH STACKER

Continued from "Reach stacker" course programme

- Picking up, lifting and lowering containers
 - Positioning the container in a stable way
 - Safe driving safety level visibility
 - How to stack containers one high
- Positioning containers two and three high
 - Positioning spreader above container corner casts (twistlocks)
 - Order of manoeuvring (safety height before side movement or rotation)
- Positioning containers four and five high extra handling
 - Anticipating changes in stability of vehicle
 - Checking ground conditions before stacking five high
 - Operating the joystick (various operating commands)
 - Anticipating the "monkey in the box effect" (uneven loaded cargo effect)
- ECO driving/working
 - Theoretical and practical lessons
 - Tyre economy when driving and manoeuvring
 - Starting procedure
 - Parking procedure
 - Turbo saving actions



EMPTY CONTAINER HANDLER (ECH)

5 EMPTY CONTAINER HANDLER (ECH)

Number of trainees:

Max. 2 trainees

Duration:

5 days

Location:

On site

Requirements:

· An ECH must be available



The purpose of the training is to provide the necessary knowledge to handle and operate the empty container handler (ECH) in order to handle and move empty containers in a safe and productive way.

Seminar contents:

- General
 - ECH technical knowledge
 - ECH daily maintenance pre-use check
 - Stacking containers in a safe way
 - Stacking 2 containers in 1 move
 - Stacking empty containers 6 and 7 high
 - Use of safety clamps
 - Determining stability for the ECH
 - Risk detection and safety
 - Safety regulations in the terminal
- Theory
 - Pre-use check
 - Introduction to the control cab of the ECH
 - Symbols and controls
 - Engine and turbo
 - Hydraulic system
- Practical introduction
 - How to operate the ECH
 - Control panel
 - Brake test
 - Safety instructions
 - Combining driving and operating the joystick

Continued on next page

EMPTY CONTAINER HANDLER (ECH)

Continued from "Empty container handler (ECH)" course programme

- Working with the ECH
 - Driving with the ECH
 - Approaching a container
 - Use of safety clamps
 - Lifting an empty container
 - Centring the spreader
 - Checking ground conditions for ability to absorb ECH movements
 - Tyre economy when driving and manoeuvring
- Lifting and lowering empty containers
 - Positioning the container in a stable way
 - Safe driving safety level, visibility
 - How to stack containers one high
- Stacking empty containers 2 and 3 high
 - Positioning spreader above container corner casts
 - Order of manoeuvring (safety height before side movement or rotation)
- Stacking empty containers 4 and 5 high
 - Anticipating changes in stability of vehicle
 - Checking ground conditions before stacking five high
 - Operating the joystick (various operating commands)
- Stacking empty containers 6 and 7 high
 - Anticipating changes in stability of vehicle
 - Checking ground conditions before stacking 7 high
 - Operating the joystick (various operating commands)
- ECO driving/working
 - Theoretical and practical lessons
 - Tyre economy when driving and manoeuvring
 - Starting procedure
 - Parking procedure
 - Turbo saving actions

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SHIP-TO-SHORE CRANE (STS)

SHIP-TO-SHORE CRANE (STS) 6

Number of trainees:

Max. 2 trainees

Duration:

4 weeks

Location:

On site

Requirements:

Ship-to-shore crane must be available

The objective of the training course is to provide the necessary knowledge and skills to handle and operate a ship-to-shore crane in order to load and unload ships in a safe and productive way.

- General
 - Lifting gear and use of lifting gear
 - International hand and communication signals
 - Crane driver safety procedure
 - Crane operation
 - Use of container spreader
 - Risk detection and safety
 - Pre-use check
 - Basic knowledge of vessel structure (cells, gliders, bays)
 - Technical safety procedures
- Tour of the crane
 - Safety paths of the crane
 - Engine room
 - Lights
 - Rails
- Lifting gear and use of lifting gear
 - Shackle between hoist and cargo
 - Supervision of actions
 - Lifting gear maintenance
 - Calculating the SWL

SHIP-TO-SHORE CRANE (STS)

Continued from "Ship-to-shore crane (STS)" course programme

- Description and function of crane operator checks on crane
 - Storm warning
 - Transport of people
 - Load diagram
 - Visibility
 - Communication
 - Port and starboard
 - Related tasks ship-to-shore crane training
- International hand and communication signals
 - Eye contact
 - Warning signals
 - General moves and signals
 - Vertical movement
 - Horizontal movement
 - Danger
- Practice
 - Driving with the crane
 - Positioning the crane
 - Combining movements
 - Use of container spreader
 - Lifting and lowering containers
 - Handling hatch covers
 - Loading and unloading of containers on a vessel



RUBBER TYRED GANTRY CRANE (RTG) AND RAIL MOUNTED GANTRY CRANE (RMG)

7 RUBBER TYRED GANTRY CRANE (RTG) AND RAIL MOUNTED GANTRY CRANE (RMG)

Number of trainees:

· Max. 2 trainees

Duration:

1 week

Location:

· On site

Requirements:

RTG/RMG must be available

The objective of the training course is to provide the necessary knowledge and skills to handle and operate a rubber tyred gantry crane (RTG)/rail mounted gantry crane (RMG) in order to load and unload containers in a safe and productive way.

- General
 - RTG/RMG crane operator safety procedure
 - Operating the RTG/RMG
 - Risk detection and safety
 - Pre-use check
 - Technical safety procedures
 - Daily inspections and maintenance
- Tour of the RTG/RMG
 - Safety path of the RTG/RMG
 - Construction
 - Engine room
 - Control panel
 - Controls
 - Safety doors
 - Seat
 - Programmable logic controller (PLC)
 - DGPS (assisted auto steering)
 - Communication system
 - Cameras
 - Anemometer
 - Anti-collision system
 - Remote control (if applied)
 - Lights

RUBBER TYRED GANTRY CRANE (RTG) AND RAIL MOUNTED GANTRY CRANE (RMG)

Continued from "Rubber tyred gantry crane (RTG) and Rail Mounted Gantry Crane (RMG)" course programme

- · Safety of the RTG/RMG operator
- Working with the RTG/RMG
 - Starting engine
 - Selecting driving direction and steering
 - Carousel drive steering mode
 - Park wheels mode
 - Operating/securing trolley
 - Trailing cables
- Operating the RTG/RMG
 - Daily checks
 - Starting engine
 - Brake test
 - Observing and checking environment
 - Checking cables
 - Checking spreader (20', 30', 40', twinlift)
 - Checking extendable twinlift spreader
 - Driving the trolley
 - Driving the RTG/RMG
 - Operating the hoist
 - Operating flippers
 - Lifting containers
 - Transporting containers
 - Stacking containers (up to 5 high)
 - Sway reduction (with and without anti-sway device)
 - Securing trolley position
 - Emergency stop
 - PLC malfunction
 - Combining movements
 - Loading containers on train and truck
 - Parking collision free
 - Engine off and securing trolley
 - Connecting to the external electrical system
 - Anchoring the RTG/RMG



TERMINAL TRAKTOR

8 TERMINAL TRAKTOR

Number of trainees:

Max. 2 trainees

Duration:

2 days

Location:

On site

Requirements:

· Terminal traktor must be available

The objective of the training course is to acquire the necessary knowledge and skills to work with the terminal traktor in a safe and efficient manner.

- General
 - Understanding of the function
 - Daily checks
 - Travel functions checks
 - Stability, load, determining the centre of gravity
 - Handling the vehicle
 - Safe and efficient driving
 - Dealing with risks
 - Eye contact
 - Terminal safety regulations
 - Anticipating slopes
 - Moving off on slopes
- · Tour of the vehicle
 - Access to the vehicle
 - Control panel
 - Engine and turbo
 - Brakes
 - 5th wheel
 - Lights
 - Checking the shackle

TERMINAL TRAKTOR

Continued from "Terminal traktor" course programme

- Driving the vehicle (unloaded)
 - Preventive checks
 - Gear speeds
 - Loading/unloading
 - Cornering
 - Observing and checking environment
 - Risk control
- Working with the vehicle (loaded)
 - Checking chassis
 - Checking 5th wheel
 - Connecting the trailer
 - Hydraulic pump
 - 5th wheel safety procedures
 - Driving forwards/backwards
 - Parking in the dock shelter
 - Risks
 - Disconnecting the trailer
- Practice
 - Working with the terminal traktor



9 DRIVING LICENCE (FOR GERMANY ONLY)

9.1 AERIAL WORK PLATFORM

Number of trainees:

Max. 8 trainees

Duration:

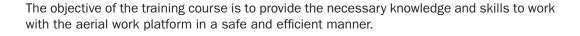
2 days

Location:

- · Training Center Düsseldorf, Germany
- · On site in Germany

Requirements:

· For an on-site training course an aerial work platform must be available



- Theory
 - Checks
 - Technical explanation
 - Safety symbols
 - Personal safety
 - Stability-working with the load diagram
- Practice
 - Preventive checks
 - Starting procedure
 - Driving position
 - Brake test
 - Observing and checking environment
 - Safe driving height
 - Load diagram
 - Driving exercises
- Test
 - Theory test
 - Practical examination



9.2 OVERHEAD CRANE

Number of trainees:

Max. 8 trainees

Duration:

2 days

Location:

- · Training Center Düsseldorf, Germany
- On site

Requirements:

· For on-site training course an overhead crane must be available

The objective of the training course is to provide the necessary knowledge and skills to operate an overhead crane in a safe and productive way.

- Theory
 - Technical explanation
 - Load symbols
 - Personal safety
 - Safety symbols
 - Checks
 - Behaviour during operation
 - Load handling
 - Attaching the load
- Practice
 - Preventive checks
 - Starting procedure
 - Observing and checking environment
 - Driving exercises
- Test
 - Theory test
 - Practical examination



9.3 FORKLIFT TRUCK TRAINING COURSE

Number of trainees:

· Max. 6 trainees

Duration:

· 2 days

Location:

- · Training Center Düsseldorf, Germany
- · On site

Requirements:

· For on-site training course a forklift truck must be available

The objective of the training course is to acquire the necessary knowledge and skills to operate a forklift truck in a safe and productive way.

- Theory
 - Daily maintenance
 - Technical explanation
 - Forklift truck check
 - Instrument check
 - Safety symbols
 - Personal safety
 - \circ $\;\;$ Stability-working with the load diagram
- Practice
 - Preventive checks
 - Starting procedure
 - Driving position
 - Brake test
 - Awareness of the environment
 - Safe driving height
 - Load diagram
 - Operating the control levers and combined driving movements
 - Picking up, transporting, stacking and lowering cargo
 - Approaching cargo and ideal working methods
 - Parking procedure
- Test
 - Theory test
 - Practical examination



Notes	



Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. The Group has 18,000 employees at 600 locations in 50 countries. Konecranes is listed on Nasdaq Helsinki (symbol: KCR).

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