This tree-friendly pdf works best on screens and not paper.

KONECRANES

HOW HAVE

Bees survived for over 100 million years?

Amongst their many wonderful **adaptations** is the waggle dance: a complex information exchange that describes the location of a new nectar source, with a directional accuracy of 10°.

Technical & Operator Training

Comprehensive training courses for both technicians and operators that transfer valuable skills and insights to your team.

Communication. Evolved.

THE KONECRANES TRAINING APPROACH

Flexible: We can train your team on-site or at our training facilities.

Modular: Trainees can switch and exchange modules depending on their experience and needs.

Quality: Our trainers have an average of 10+ years experience with the specific product.

Recognized: A Konecranes training certificate is recognized throughout the industry.

BENEFITS

- Comprehensive training course documentation for each course
- Recognized Konecranes Port Solutions training course certificate
- Training courses can be held at our training centers (Germany or Ukraine) or on site at your port
- State-of-the-art training workplaces in all Konecranes training centers
- A variety of simulators that replicate crane control system in our training facilities
- Modular training concept.

Technical Training Menu

Don't see your equipment here?

Let us know
We are always able to design tailored training courses.

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Technical Training 2
Troubleshooting Training

Automated Guided Vehicle (AGV)
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RTG/Boxhunter Training
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Automated Rail-Mounted Gantry (A-RMG)
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Technical Training 2 TMEIC Option

Cantilevered Rail-Mounted Gantry (C-RMG)
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SIMATIC S7
Basic Technical Training

MHC Technical Training

MHC TECHNICAL TRAINING 1

Designed for **electricians and mechanics** involved in maintenance work on mechanical, hydraulic or electrical components of a Konecranes Mobile Harbor Crane.

- **Number:** Max. 8 participants
- **Duration:** 5 days
- **Requirements:** Basic technical knowledge
- **Location:** Düsseldorf Training Centre or on site
- **Site conditions:** Training room and presenter tools need to be provided.

MHC TECHNICAL TRAINING 2

Designed for **mechatronic technologists and electricians** involved in more complex maintenance work. Fundamentals of control system, programming and troubleshooting. Participants will become familiar with Visumatic® control and visualisation system. Hands-on training enables the trainees to learn **practical fault diagnosis skills and remedies.**

- **Number:** Max. 8 participants
- **Duration:** 5 days
- **Requirements:** Basic electrical knowledge
- **Location:** Düsseldorf Training Centre or on site
- **Site conditions:** Training room and presenter tools need to be provided.

MHC TROUBLESHOOTING TRAINING

Designed for **mechatronic technologists and electricians** involved in more **complex maintenance work** or **tougher troubleshooting**. The diagnosis and correction of faults and additional insights into programming and the programming language used make subsequent troubleshooting easier.

- **Number:** Max. 4 participants
- **Duration:** 5 days
- **Requirements:** Basic electrical knowledge, TT1 and TT2 is advised
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided. A MHC must be available.

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AGV Technical Training

AGV TECHNICAL TRAINING 1

Technical Training 1 is designed for **electricians and mechanics** involved in work or maintenance work on mechanical, hydraulic or electric components of an AGV. The general set-up of the crane and product documentation. Trainees are introduced to the fundamentals of the electrics and hydraulics, including circuit diagrams and hydraulic drawings.

- **Number:** Max. 6 participants
- **Duration:** 2 days
- **Requirements:** Basic technical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided.

An AGV must be available.

AGV TECHNICAL TRAINING 2

AGV Technical Training 2 is designed for **mechatronic technologists** and **electricians** involved in more complex maintenance work or tougher troubleshooting. The **diagnosis and correction of faults** alongside fundamental control system (hardware and software) and key aspects of the bus systems are examined in detail.

- **Number:** Max. 6 participants
- **Duration:** 2 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided.
  An AGV must be available.

AGV BATTERY TRAINING

Trainees learn the **general battery set-up** and product documentation, for basis for maintenance work. The battery training is designed for **electricians** involved in work or maintenance work on electric components or involved in troubleshooting.

- **Number:** Max. 6 participants
- **Duration:** 0,5 days
- **Requirements:** Electrician
- **Location:** On site
- **Site conditions:** A battery exchange station, plus maintenance area and battery must be available.

AGV BES TRAINING

Fundamentals of the AGV **battery exchange station (BES)** is conveyed. The battery exchange station training is designed for electricians involved in work or maintenance work on electric components or involved in troubleshooting.

- **Number:** Max. 6 participants
- **Duration:** 1 day
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Restricted area in BES, Battery AGV and battery exchange station must be available.

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Straddle/Sprinter Carrier Technical Training

SC TECHNICAL TRAINING 1

General set-up and fundamentals of the electrics and hydraulics, including the circuit diagrams and hydraulic drawings. Technical Training 1 is designed for **electricians and mechanics** involved in work or maintenance work on mechanical, hydraulic or electric components.

- **Number:** Max. 6 participants
- **Duration:** 5 days
- **Requirements:** Basic technical knowledge
- **Location:** Würzburg or on site
- **Site conditions:** Training room and presenter tools need to be provided. A straddle carrier and/or a sprinter carrier must be available.

SC TECHNICAL TRAINING 2

Fundamentals of **control system** (hardware and software) and the **bus systems**. The diagnosis and correction of faults and additional insights into **programming and the programming language**, for improved troubleshooting. Technical Training 2 is designed for **mechatronic technologists and electricians** involved in more complex maintenance work.

- **Number:** Max. 6 participants
- **Duration:** 3 days
- **Requirements:** Basic electrical knowledge
- **Location:** Würzburg or on site
- **Site conditions:** Training room and presenter tools need to be provided. A straddle carrier and/or a sprinter carrier must be available.

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RTG Technical Training

RTG TECHNICAL TRAINING 1

Fundamentals of RTG and general set-up, electrics and hydraulics plus circuit diagrams and hydraulic drawings. Instruction on the functions and settings of drive units and assemblies. Designed for **electricians and mechanics** working on mechanical, hydraulic or electrical components

- **Number:** Max. 6 participants
- **Duration:** 2 days
- **Requirements:** Basic technical knowledge
- **Location:** Odessa or on site
- **Site conditions:** Training room and presenter tools need to be provided. A RTG must be available.

RTG TECHNICAL TRAINING 2

Fundamentals of the **control system** (hardware and software) plus key aspects of the bus systems. Diagnosis and correction of faults alongside programming and programming language, and CMS familiarization. Technical Training 2 is designed for **mechatronic technologists** and **electricians** involved in more complex maintenance work or tougher troubleshooting.

- **Number:** Max. 6 participants
- **Duration:** 3 days
- **Requirements:** Basic electrical knowledge
- **Location:** Odessa or on site
- **Site conditions:** Training room and presenter tools need to provided. A RTG must be available.

BOXHUNTER RTG TECHNICAL TRAINING 1

Fundamentals of Boxhunter RTG and general set-up, electrics and hydraulics plus circuit diagrams and hydraulic drawings. Instruction on the functions and settings of drive units and assemblies. Designed for **electricians and mechanics** working on mechanical, hydraulic or electrical components.

- **Number:** Max. 4 participants
- **Duration:** 2 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided. A Boxhunter RTG must be available.

BOXHUNTER RTG TECHNICAL TRAINING 2

Fundamentals of the **control system** (hardware and software) plus key aspects of the bus systems. **Diagnosis and correction of** faults alongside programming and programming language, and CMS familiarization. Technical Training 2 is designed for **electricians and mechatronics** involved in more complex maintenance work or tougher troubleshooting.

- **Number:** Max. 4 participants
- **Duration:** 2 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided. A Boxhunter RTG must be available.

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ARMG Technical Training

ARMG TECHNICAL TRAINING 1

Fundamental knowledge, general set-up and documentation. Performance of maintenance work and fault diagnosis across electric, hydraulic and electromechanics systems. Instruction on the functions and settings of drive units and assemblies. Designed for **electricians and mechanics** working on mechanical, hydraulic or electrical components

- **Number:** Max. 6 participants
- **Duration:** 2 days
- **Requirements:** Basic technical knowledge
- **Location:** Odessa or on site
- **Site conditions:** Training room and presenter tools need to be provided. An ARMG must be available.

ARMG TECHNICAL TRAINING 2

Fundamentals of the **control system** (hardware and software) plus key aspects of the bus systems. Diagnosis and correction of faults alongside programming and programming language, and CMS familiarization. Technical Training 2 is designed for **mechatronic technologists** and **electricians** involved in more complex maintenance work or tougher troubleshooting.

- **Number:** Max. 6 participants
- **Duration:** 2 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided. An ARMG must be available.

ARMG TMEIC OPTION TECHNICAL TRAINING 2

Fundamentals of the **TMEIC control system** (hardware and software) plus key aspects of the bus systems. **Diagnosis and correction of** faults alongside programming and programming language, and CMS familiarization. Technical Training 2 is designed for **mechatronic technologists** and **electricians** involved in more complex maintenance work or tougher troubleshooting.

- **Number:** Max. 6 participants
- **Duration:** 3 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tool need to be provided. An ARMG with TMEIC controls must be available.

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CRMG Technical Training

CRMG - BOXPORTER TECHNICAL TRAINING 1

Fundamental knowledge, general set-up and documentation. Performance of maintenance work and fault diagnosis across electric, hydraulic and electromechanics systems. Instruction on the functions and settings of drive units and assemblies. Designed for **electricians and mechanics** working on mechanical, hydraulic or electrical components

- **Number:** Max. 6 participants
- **Duration:** 2 days
- **Requirements:** Basic technical knowledge
- **Location:** Odessa or on site
- **Site conditions:** Training room and presenter tools need to be provided.
  A CRMG must be available.

CRMG - BOXPORTER TECHNICAL TRAINING 2

Fundamentals of **control system** (hardware and software) and the **bus systems**. The diagnosis and correction of faults and additional insights into **programming and the programming language**, for improved troubleshooting. Technical Training 2 is designed for **mechatronic technologists** and **electricians** involved in more complex maintenance work.

- **Number:** Max. 6 participants
- **Duration:** 3 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided.
  A CRMG must be available.

BOXPORTER TMEIC OPTION TECHNICAL TRAINING 2

Fundamentals of **TMEIC control system** (hardware and software) and the **bus systems**. The diagnosis and correction of faults and additional insights into **programming and the programming language**, for improved troubleshooting. Technical Training 2 is designed for **mechatronic technologists** and **electricians** involved in more complex maintenance work.

- **Number:** Max. 6 participants
- **Duration:** 3 days
- **Requirements:** Basic electrical knowledge
- **Location:** On site
- **Site conditions:** Training room and presenter tools need to be provided. A CRMG must be available.

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SIMATIC S7

SIMATIC S7 BASIC TECHNICAL TRAINING

All relevant knowledge about **Siemens S7 PLC Systems**, the hardware set-up and the programming languages. The participants work with the belt model and can start to **develop their own programming** solutions. Hands-on training enables the trainees to learn practical **fault diagnosis skills** and remedies.

- **Number:** Max. 6 participants
- **Duration:** 5 days
- **Requirements:** Basic technical knowledge
- **Location:** Training Center Düsseldorf

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 more than 16,000 employees at 600 locations in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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