

# Crane Operator Training

## Mobile Harbour Cranes



# LIEBHERR



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Operator training will be held by a professional instructor with extensive crane operator experience, accredited with an organisation in the UK as a qualified training instructor capable of issuing certificates.

# 1 What makes our training unique

The Liebherr crane operator training is customer-specific and focuses on your most important issues. We will help you to correct any problems, up-skill your crane operators and eliminate coverage of topics which do not apply to your company.

Our instructor will conduct a live working environment 'walk through' prior to on-site classes. We want to know more about your applications and policies to ensure the best training outcome. Our experienced instructor will make suggestions for safety improvement and international law compliance.

We have the ability to come to your site to conduct hands-on evaluations, or if you don't own training material we can offer our own. Moreover, we have installed training centres equipped with professional simulators across the globe. Equipment operator training is a core business, not something we do 'on the side' or a few times a year. We take pride in our instructor knowledge, in the quality of our programs and in the results we achieve.

# 2 Adding value to your operation

We retain and back up your certification records electronically. We provide continuing support and consultation via phone and email at no charge. If you have an equipment operator training question, we will get you the answer.

We use pictures and video clips of live working environment and accidents to help prevent similar situations at your site. Our training is both realistic and relevant.

You won't find us relying on a DVD to teach the class. Liebherr's in-depth training will make a significant difference in how your people feel about operating a mobile harbour crane. Highly qualified instructors will maximise your return on investment and sustainably increase safety and productivity in your operation.



# 3 LiSIM® - professional simulator training

In addition to on-site training Liebherr offers highly immersive simulation-based crane operator training. Based on original hardware and software, LiSIM® is the only realistic virtual solution for learning the precise control of Liebherr mobile harbour cranes and their innovative features.

Simulation-based training offers various advantages and makes it possible to practice everyday and extraordinary situations crane operators face in the real world of port handling. Thanks to the flexible adjustment of the virtual environment, users can run through any cargo handling situation, anytime they want to.

Thanks to the virtual port environment potential safety risks like damaging vessels, port equipment or port personnel are eliminated. Moreover, simulator training does not interfere with day-to-day port operation, causes no downtimes and does not require any fuel.



Visit our LiSIM® Microsite for more information:  
[www.lisim.liebherr.com](http://www.lisim.liebherr.com)

## Simulators worldwide and in your port

Professional crane simulators are ever more recognized as highly effective training method. In order to ensure easy training access, Liebherr has installed training centres equipped with advanced simulators all over the world, including Germany, USA, Brazil and South Africa. Further installations are planned.

Besides sending your crane operators to Liebherr training centres, you can also opt for your own LiSIM® solution. The LiSIM® mobile harbour crane simulator is available in three different configurations to meet specific customer requirements: classroom, cab-enclosed and containerised solution. It is further possible to reproduce the real port layout in the virtual world.

Our qualified instructor supports your training either on-site or in our training centres to guarantee that you get the most out of your investment.



# 4 Training outline



- Introduction, outline and provision for practice operation
- Benefits of training
- Management's role in safety versus the operator's role
- Knowing your equipment and the importance of reading the operator's manual
- Basic components and typical control layouts
- Equipment capacity
- The use of fall protection, as it applies to aerial lifts
- Standard and emergency ground controls
- Surface conditions
- Outside operation issues
- Pedestrian safety
- Operating in tight areas
- Basic operational issues
- Travelling rules
- Damage to equipment and facilities
- Parking
- Ramp operation
- Proper fuelling procedures
- Personal protective equipment
- Pre-shift checks
- Safety equipment (alarms, strobes, etc.)

# 5 Customized training options

## Option 1

### Training at your location plus our instructor

This class is for companies needing employees to be formally trained to operate any type of heavy equipment in container handling or inland. This is the perfect class if you have new operators and want to ensure they have proper training according to the international law standards. If you have existing operators, but are unsure of the quality and content of their past training, you are missing their documentation or if they were certified through a prior employer, this would also be your best choice for training.

The class includes class room and site sessions, written testing and hands-on evaluations for each type of equipment they will be using. The hands-on evaluation portion is one to several hours depending on class size and experience.

We are experts at working around busy schedules and will find days and times which work for your facility. Topics include international law standards and also best practices for safe operation.

We show operators why they should work safely and the consequences of what can happen to their health and families if the rules are not followed.

## Option 2

### Simulation-based training plus our instructor

This simulation-based training option is a challenge for your operators. We will simulate harsh weather conditions and prepare operators also for extraordinary tasks. In a damage-free environment they will learn about the operational boundaries of the crane which naturally boosts productivity in real operation. Prior to the training the current situation in the port and potential problems are evaluated. Thus, in-depth simulator training with additional value for the trainee and the port operator is possible.

Our instructor is available in our global training centre network or will visit your port if you have your own simulator.

## Option 3

### Re-evaluations plus our instructor

Our re-evaluation class is geared towards companies with operators which have already been properly certified at your company and are in need of re-evaluation. The class consists of approximately one hour of classroom instruction.

Topics such as operator focus and pedestrian safety, along with real life accident pictures and video clips, will remind your operators about the consequences of unsafe actions. It will get the attention of your experienced operators who already know how to operate safely, but may not be applying that knowledge. Hands-on evaluations immediately follow the classroom instruction.



# 6 Detailed course description



## The course aim

To provide delegates with the base knowledge to understand the principles of safe lifting and handling technique. Also to equip delegates with the necessary skills in how to carry out planning and preparing for specific crane lifts in their workplace.

Prior to the training, all requirements need to be individually assessed so that a realistic time frame for the course and a cost-effective price can be achieved.

## The course includes

- Welcome and introductions.
- Aim and outline of programme.
- Outline of training methods.
- Course administration.

## Operator's legal duties

- Introduction to crane.
- Description of crane type and all functions.
- Planning and preparing for specific lifts.
- Pre-use inspection and hydraulic system battery care, where applicable.
- Feedback and course closure.

## The course is aimed at

- New or inexperienced operators.
- Operators who require re-training due to changes in equipment or legislation.
- Experienced operators without previous training, who need to improve knowledge and skills or renewal of certificate.

## At the end of the course trainees should

- Have detailed knowledge of all hazards associated with crane operations and understand potential hazards of incorrect use.
- Understand the requirement for personal protective clothing and equipment.
- Understand the different control systems in use, attachments and equipment including safety devices.
- Understand the safety procedures necessary when crane operations take place on or near a public, footpath or other area where other persons may be nearby.
- Understand of the special needs for maintenance inspection and testing.
- Carry out the preliminary checks on the equipment, such as oil, water, fuel or hydraulics.
- Have a detailed knowledge of crane driving and the correct action to take in the event of an accident.
- Be able to operate the equipment without endangering others or himself.



