



# Gantry crane

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## General description of the training

The aim of the training is to provide the necessary knowledge and skills to handle and operate a gantry crane in a safe and productive way.

The basic contents are:

- ✓ Train the candidates to responsible of a safety-function, efficient operators, that will act preventative to machine defects and interruptions.
- ✓ To prevent accidents and injuries, damage to environment and goods.
- ✓ To work safely and dynamically

## Training Schedule: Gantry Crane

### Theory:

- ✓ To know the contents of a safety function.
- ✓ To know the contents of a working-permit, to interpret and live up to them.
- ✓ To know the basic regulation on the responsibilities of a gantry-crane operator: the liabilities and responsibilities.
- ✓ To know the inspection requirements of hoisting gear and hoisting material.
- ✓ To detect, analyse and control the risks of the equipment and environment.
- ✓ To know the safety procedures: capacity, load, risks for persons and goods.
- ✓ To know the important issues concerning the construction and functions of a gantry crane; the trolley, different movements, load-limiter, and all the important parts of the gantry crane and hoisting material.
- ✓ To be aware of the different types of gantry cranes and their controls.
- ✓ To control the aspects of safe cargo handling: to attach cargo in the correct way, to lift the cargo, to move the cargo and to set down the cargo and terminate the operation.
- ✓ To know the hoisting material and the crane accessories
- ✓ To know how to stock the hoisting material in a correct way.
- ✓ To control the different hoisting methods.
- ✓ To perform a visual control on the remote control-system, the hoisting elements, and safety equipment.
- ✓ To define a safe hoist concerning: the weight, point of gravity the method of attaching.
- ✓ The use of Personal Protection Equipment. (PPE)
- ✓ To know the signalling method used for hoisting cargo.

### Practice:

- ✓ Adapt the safety rules and work accurately.
- ✓ To execute the daily check of the gantry crane and report the details.
- ✓ The correct use of the remote control.
- ✓ To respect the working height.
- ✓ The correct attachment of the cargo.
- ✓ To avoid the sling of the cargo and to restrain the slinging movement.
- ✓ To use the crane-signals.
- ✓ To make a faultless hoisting-track (vertically, horizontally and the combination of both movements).
- ✓ To manoeuvre different hoists.
- ✓ To turn around the hoist.
- ✓ To avoid negative loads (shranking)
- ✓ To be able to estimate distances (vertically and horizontally)
- ✓ To park the gantry crane in a correct way after operation.



# Hoisting and Hoisting gear

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## General Description

The function and the use of hoisting gear is essential knowledge to all crane operators. All candidates will have the opportunity to learn the basic techniques and to expand their knowledge on hoisting gear and the use of it.

## Training schedule

### Theory

- ✓ To know the contents of a safety function.
- ✓ To know the contents of a working-permit, to interpret and live up to them.
- ✓ To know the inspection requirements of hoisting gear and hoisting material
- ✓ To determine the basic characteristic of the load: weight, point of gravity, ...
- ✓ To determine the heaving angle
- ✓ The (maximum) load of the hoisting gear
- ✓ Heaving signals
- ✓ The different sorts of hoisting material and their use
- ✓ To determine how a load will be slung.

### Practice

- ✓ The correct use of PPE's
- ✓ To determine the weight and point of gravity of a load
- ✓ Checking the hoisting gear and equipment
- ✓ Choice of hoisting gear in function of the cargo
- ✓ The correct attachement of the cargo