

IS-011

Working with an overhead crane (cable/remote control)

Inclusive

AV-004 Rigging non critical loads

Vantegemstraat 9
B-9230 Wetteren
Tel: +32 (0)9 368 80 40
hsa@heli.be

Training

1. Target group

Overhead crane operators who work with an overhead crane with cable / remote control.

2. Conditions of admission

- Being at least 18 years old.
- Being in possession of a certificate of medical fitness (a/o for safety function)

3. Purpose

General: To teach the correct, safe and efficient way of operating an overhead crane with cable / remote control.

This entails:

teaching the basic techniques:

- To train the operators to carry out a safety function as efficient operators who can exercise preventive checks and report defects/failures
- To prevent accidents/injuries, to avoid damage to the surroundings and reduce damages due to transport
- To work safely and dynamically

NOTE: This examination integrates the test terms and attention points of AV-004 Attaching and moving non-critical loads.

4. Final Attainment levels and points of interest

THEORY

- Knowledge of the subject matter of the safety function
- Knowing what work permits are and the ability to interpret and comply with them
- Knowledge of basic laws for an overhead crane operator: General Regulations for Occupational Health and Safety, Codex, liability and responsibilities
- Knowledge of inspection requirements for hoisting appliances and attachment material
- Ability to determine, analyze and check risks particular to appliances and space
- Knowledge of the safety instructions: capacity, effective load, risks to persons and goods, putting out of use
- Knowing important terms concerning the construction and functions of the overhead crane: bridge construction, crab, different movements, limit switch and anti-collision systems, load limiting device,

types of drives, hoisting cable guide, pulley, cable and remote control, indicators, rotating flashing light, horn, emergency brake, non-interchangeable hoisting equipment

- Knowing that different types of overhead exist, with their area of application: pendant, remote control, cab operation
- Knowledge of aspects of safe load handling: start of hoisting, moving, putting the load down, end of the work
- Knowing attachment material (chains, hoisting belts, steel cable strops) and hoisting accessories (hoisting rings, bow shackles, D-closures, corner pieces)
- Knowing how to correctly store these materials
- Knowing that interchangeable attachment material exists: form-closing (hooks, grippers, plate clamps) and force-closing (magnets, suction cups, hydraulic clamps)
- Knowing that there are different attachment methods
- Knowing the elements of a visual inspection: operating functions, pulley condition, hoisting cable, functioning of safety signals, functioning of end stop protection
- Knowing what a good hoist is: determining the weight, center of gravity, angle of attachment and figure of attachment
- Use of protective equipment (work clothing, helmet, safety shoes, other PPE if required)
- Knowing how to signal when working with two persons

PRACTICAL

- Ability to apply safety rules and work with precision
- Ability to carry out and report the daily control of the overhead crane
- Ability to correctly use the operating mechanism
- Ability to respect the working height
- Ability to correctly attach loads
- Ability to cushion and avoid swinging movements
- Use signals
- Follow a course (vertical, horizontal and combined movements) faultlessly
- Ability to maneuver with various loads
- Ability to turn loads
- Ability to avoid negative loads (transversal movement, shranking)
- Estimating of distances (vertical and horizontal)
- Ability to park the crane in a correct way

5. Validity of diploma

10 YEARS

Every five years the company makes an evaluation – internal and external – to see that the employees still meet the conditions. The company takes responsibility for this. SCC auditors will also screen this with the audit.

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Information

6. Duration

- Training: 1 to 3 days