

LEARNING CONTENTS - Agenda

The training is based on objective-oriented learning. This method uses three key stages to ensure a step-by-step comprehensive transfer of knowledge

The indispensable classroom training is given through the web based course (approximately 4 days of theory), and immediately followed up with full exposure to handling operations on the simulator.



It is important to notice that in the chapter related to the simulator, every partner will have to participate in the collect of information to be transferred on the web base since each partner will have to complete the information with their own equipment characteristics. At that time of the project, the GPMM has only included its own cranes and gantries technical information.

CHAPTER I. General information on job description and work environment

Module I.1 : crane driver job description

- Abilities: cognitive, psychomotor, perceptive, physical abilities; motivation and personality
- Required competencies
 - Use the relevant techniques in order to realize the horizontal and vertical driving of charging/discharging equipments
 - Driving apprehension in total safety
 - Realize any possible movements
 - Control and avoid any unintended moving of a suspended charge
 - Knowing use procedures of lifting equipments
 - Knowing technical characteristics of equipments to be driven

- Work process description: moving, charging, discharging goods from one point to another (ship, barge, quay, truck).

Module I.2: work environment and risks prevention

- Risks prevention linked to the circulation of equipments – quay adjustments
 - Adjustments of circulation lanes
 - Definition of circulation rules and separation of the various circulation lanes
 - Road signs and marking
- Risks prevention: fall, jamming and crushing of persons.
 - Ship access
 - Hold access and hatch protection
 - Lifting machines access
 - Work places (ship floor)
 - Doors of usual work places
- Risks prevention linked to work atmosphere
 - Lighting
 - Airing and ventilation
 - Fire and explosion
 - Room temperature
 - Noise

CHAPTER II. Handling operations and materials

Module II.1: Handling operations

- The different kinds of ships and operations
 - Polyvalent ships – general cargo
 - Container ships
 - Bulk ships for solid bulk goods
 - Handling of metallurgical products: tubes, coils...
 - Bags handling
- Manual handling
 - Principle of limitation of manual handling operations
 - Systems of assistance for manual handling
 - Risks factors
 - An adapted training
- General rules for the use of work equipment
 - Use of individual protection equipments

Equipments adapted and appropriated to the operation: timers and logs

Module II.2: the use of handling and lifting material

- Risks linked to charges lifting
- Risks linked to the movements of lifting material
- Lifting of persons
- The use of lifting accessories : choice, storage and maintenance
- Maintenance, conformity and check of lifting equipments

Module II.3: Professional risks prevention

- Information on risks prevention :
 - Use and maintenance of work equipments
 - Use of individual protection equipments
 - Varieties of ships, organization of terminals
- Professional training :
 - Security
 - Specific risks at work
 - Driving of lifting machines
 - Maintenance operations of lifting machines
 - Gesture and command of lifting machines
 - Measures to be respected during handling operations

CHAPTER III. The simulator

Introduction: Handouts of gantries and cranes trained through simulator

Module III.1: Bases

- Description of the different movements : orientation, direction and slack
- The driving cabin and its commands
- How to start up the machine
- How to get some points of reference
- Direction, orientation, lifting and slack

Module III.2: Acquisition of the bases

- Slack control
- Movement coordination : orientation, direction & lifting
- Distance perception
- Use of the control screen

Module III.3: Synchronization

- Adjustment and control of slack
- Coordination and synchronization of movements
- Special conditions of work : weather conditions, incidents
- Security measures and instructions

Module III.4: Qualification

- Transfer of learning
- Improvement of weak points
- Synchronization, independency, productivity

CHAPTER IV. Evaluation and tests

PEDAGOGICAL HANDOUTS

The detailed course of each lesson, once transposed on the web platform, will be composed as follows (in italic are some examples in order to illustrate the description):

TITLE: *acquisition of fundamental abilities – direction coordination/handling and slack control*

OBJECTIVES OF THE LESSON

*Take some pinpoints in order to estimate the height
Estimate the height for the final approach...*

ORGANISATION OF THE LESSON

Description minutes by minutes of the different exercise of the day

CRITERIA OF SUCCESS

*Selection of pinpoints to estimate the heights
Selection of pinpoints to estimate the approach distances*

CORRECTION

Heighten trainee's awareness to the respect of handling heighten in order to guarantee security