

HUISMAN ACADEMY

TRAINING PROGRAMME CRANES



Huisman
Services





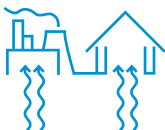
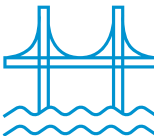
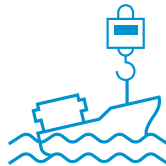
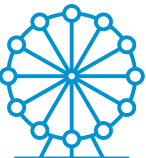
Equipped for impact

We are Huisman. We design, manufacture and service heavy construction equipment for the world's leading companies in the renewable energy, oil and gas, civil, naval and entertainment markets. Our products range from Cranes, Pipelay Equipment, Drilling Equipment and Winches, to Vessel Designs and Specials.

The history of Huisman is one of setting new industry standards. Of making impact, since 1929. With step changing technical solutions that vary from stand-alone to highly engineered integrated systems. From concept to installation and lifetime support.

In these times of transition, our passionate workforce and worldwide production, service & sales facilities make us equipped for impact.

Active in 6 Markets

 Oil and gas	 Offshore wind	 Geothermal energy
 Civil works	 Salvage	 Leisure

People



2500+ employees worldwide

Track record

 Operating from 7 locations	 203 vessels are equipped with our products
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TRAINING PROGRAMME CRANES

HUISMAN SERVICES

02

Huisman Services delivers services to all clients owning Huisman equipment to support safe and efficient operations worldwide. This results in optimised levels of equipment safety, uptime and performance.

The range of services draws together the technical expertise of the entire Huisman mechanical, hydraulic, electrical, control systems and training departments. A dedicated, globally operating Service Team of skilled professionals is available to provide advice, training and service support before, during and after installation and delivery. This includes:

- Operational Support
- Survey & Inspection
- Maintenance
- Parts services
- Training
- Equipment Lifecycle services
- Remote troubleshooting and support

Our service team is available to provide support from any one of the Huisman locations or at any client specified site. Huisman Services is headquartered in the Netherlands (Schiedam), supported by local service offices in Houston (USA), Singapore and Navegantes (Brazil).

TRAINING PROGRAMME CRANES

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THE HUISMAN ACADEMY

The Huisman Academy has been established to facilitate Huisman clients with the training of knowledge and skills to safely and efficiently use their Huisman Equipment.

The Huisman Academy can provide different kind of trainings. Some examples of training methods offered:

- Practical trainings
- Classroom trainings
- On the job trainings
- Blended learning

All available trainings cover a coherent set of courses for the different fields (product category and learner disciplines) on three levels (basic, advanced and expert). Our clients can combine various modules to ensure the best possible training for their employees. The modules offered are based on quantifiable learning goals which determine the selected subjects, the educational training tools and the examination method. The Academy Course Engineer will assess your requirements and will work closely with you to provide a proper specification of the course materials. All client specific courses should, however, be based on Huisman equipment and processes.



OVERVIEW

Each training is provided by one of Huisman's specialists with specific knowledge of the equipment.

Familiarisation training



Goal: To familiarise trainees with the main characteristics, systems, components, basic operations and manuals.
For: All personnel involved in the use of the equipment, including office personnel
Type: Classroom
Duration: 1 day
Location: On board vessel or any preferred location
Online training: Yes, if required

Operator training



Goal: To provide knowledge and skills to operate the equipment.
For: Crane operators
Type: Practical and classroom (50%/50%)
Duration: 2 days (3 days for cranes with a hydraulic heave compensation cylinder)
Location: On board vessel. Equipment must be available for operations during the practical part
Training modules: Primary & secondary hoist systems, slewing, support systems, controls, user interface, load charts, sea states, reeving modes, normal and emergency procedures

Maintenance training



Goal: To provide knowledge on the planned maintenance aspects of the equipment.
For: All personnel involved in planned maintenance
Type: Classroom
Duration: 1 day
Location: On board vessel or any preferred location
Training modules: Documentation, maintenance schedule, focus points on mechanical, electrical and hydraulic maintenance items
Online training: Yes, possible

Control and Fault Finding training



Goal: To provide the knowledge to perform fault finding on the equipment.
For: Technical personnel involved in fault finding
Type: Practical and classroom (25%/75%)
Duration: 2 days
Location: On board vessel or any preferred location
Equipment must be available during the practical part
A test set-up will be used for the practical part
Training modules: Basic operations, user interface, sensors, control system, alarms, data logging, overrules, parameters, Huisman support, remote access
Online training: Yes, if required
Note: Online training impacts the duration, no practical part included in training

Electrical training



Goal: To provide knowledge on the technical aspects of the electrical installation of the equipment.
For: Technical personnel involved in maintenance on the electrical installation and control systems hardware
Type: Practical and classroom (25%/75%)
Duration: 2 days
Location: On board vessel or any preferred location
Equipment must be available during the practical part
A test-set-up will be used for the practical part
Training modules: Documentation, schematics, power distribution, emergency stop system, electric motors, electric brakes, sensors, switch gear and network wiring and components
Online training: Yes, if required
Note: Online training impacts the duration, no practical part included in training

Huisman also provides Equipment specific training.

Hydraulic training



Only for cranes with an Hydraulic installation
Goal: To provide knowledge on the technical aspects of the hydraulic installation of the equipment.
For: Technical personnel involved in maintenance on the hydraulic installation
Type: Classroom
Duration: 1 day
Location: On board vessel or any preferred location
Training modules: documentation, drawings, hydraulic circuits, conditioning, pumps, valves, cylinders, accumulators and hydraulic motors
Online training: Yes, if required

Electric Drive training



Only for cranes with an Electric drive system
Goal: To provide the knowledge to perform fault finding and component replacement on the electrical drive system.
For: Technical personnel involved in maintenance on the electric drive system
Type: Practical and classroom (40%/60%)
Duration: 2 days
Location: On board vessel. Equipment must be available during the practical part
Training modules: Working principal, electric motors, rectifiers, inverters, control logic, software tools, overspeed protection system (DISPS)

Hydraulic Drive training



Only for cranes with an Hydraulic drive system
Goal: To provide the knowledge to perform fault finding and component replacement on the hydraulic drive system.
For: Technical personnel involved in maintenance on the hydraulic drive system
Type: Practical and classroom (50%/50%)
Duration: 2 days
Location: Any preferred location. A test set-up will be used for the practical part
Training modules: Working principal, secondary controlled hydraulics, circuits, pumps, valves, hydraulic power unit (HPU), hydraulic motor controller (HMC), hydraulic motor protection (HMP), control logic, software and service tools

Heave Compensation training



Only for cranes with an Hydraulic Cylinder Heave Compensation system
Goal: To provide knowledge on the technical aspects of the hydraulic cylinder heave compensation systems.
For: Technical personnel involved in maintenance on the hydraulic cylinder heave compensation system
Type: Classroom
Duration: 1 day
Location: On board vessel or any preferred location
Training modules: Working principal, circuits, valves, hydraulic power unit (HPU), pressure vessel unit (PVU), pressure intensifier unit (PIU), active and passive heave compensation (AHC/PHC), motion reference unit (MRU)
Online training: Yes, if required

KNOWLEDGE LEVEL MATRIX

This matrix gives our advice on trainings based on the function and experience level of trainees.

■ = recommended

	Crane	All	All	All	All	All	Specific	Specific	Specific	Specific
	Training	Familia- risation training	Operator training	Mainte- nance training	Control and Fault Finding training	Electrical training	Hydraulic training	Electric Drive training	Hydraulic Drive training	Heave Compen- sation training
Function	Level	Familia- risation	Medium	Basic	High	Basic	Basic	High	High	High
Operator	High		■	■	■					
Mechanic	All	■		■	■	■	■			
Hydraulic technician	All	■		■	■	■	■		■	■
Engineer	Medium	■		■	■	■	■	■	■	■
Engineer	High	■			■			■	■	■
Chief engineer	High	■			■			■	■	■
Electrical technician	All	■		■	■	■		■		
Electrician/ETO	Medium	■		■	■	■		■	■	
Electrician/ETO	High	■			■			■	■	
Chief electrician	High	■			■			■	■	
Software/ Electronics engineer	High	■			■			■	■	

Grey is the expected knowledge level of the trainees.	
All	No specific knowledge required
Medium	Professional
High	Licensed

Blue is the level provided by the training:	
Familiarisation	Provides basic equipment knowledge
Basic	Provides subject knowledge
Medium	Provides subject knowledge and skills to perform
High	Provides subject knowledge and skills to analyse



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