

## **COURSE: NR-12 –Offshore Machinery Safety**

### **SCOPE AND APPLICABILITY:**

Training for workers involved in the operation, maintenance, inspection and other interventions in machinery and equipment compatible with their duties. The core content is addressed to cover the risks to which they are exposed and the existing and necessary protective measures according to NR-12, with theoretical and supervised practical steps. The practical part will be documented and it can be performed on the machinery that will be operated to prevent accidents and diseases.

### **REGULATIONS & STANDARDS**

- NR12;
- NR10;
- NR17;
- NR26;

### **COURSE CONTENT:**

**The training course must be specific to the machine type in which the operator will perform its functions and meet the following programmatic content:**

- History of safety regulations on the specified machine;
- Description and operation;
- Major areas of danger;
- Risks in operation and safe working method;
- Measures and safety devices to prevent accidents;
- Operation of the protections; how and why they should be used;
- Doors, and safety distances;
- How and under what circumstances a protection can be removed, and by whom, in most cases, only inspection or maintenance personnel;
- What to do, for example, contact the supervisor, whether a protection has been damaged or has lost its function, failing to ensure adequate safety;
- Safety principles in the use of the machine or equipment;
- Safety for mechanical, electrical and other relevant hazards;
- Safety measures for manual and hydraulic machinery; and
- Minimum safety requirements under this standard and nr 10;
- Ergonomic and signaling principles (nr-17 and nr-26);
- System to block the operation of the machine and equipment during inspection, cleaning, lubrication and maintenance operations;
- Practical demonstration of hazards and safety devices;
- Description and identification of the risks associated with each machine and equipment and the specific protections against each of them;
- Work permit.

**COURSE DESIGN:**

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Theory – 8 hours

Practical – 4 hours

**PREREQUISITES:**

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None

**MINIMUM/MAXIMUM NUMBER OF ATTENDEES**

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This course requires a minimum of 1, and a maximum of 15 participants.

To offshore trainings, the course number of attendees will comply with the vessels/rig necessity.

**CERTIFICATION:**

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Training certificate signed by responsible Engineer accredited by Brazilian CREA.

**CERTIFICATE VALIDITY PERIOD:**

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Recommendable 2 years.