

Testing and Examination of Lifting Machines, Tackles, Pressure Vessels and Lifts & Hoists

PERSPECTIVE

In factories, ports and construction sites, a number of operations and processes involve the use of lifting machinery, lifting tackles, chains, ropes, etc. for material handling. Pressure vessels are used in a variety of applications in both industry and the private sector. The pressure differential is dangerous and many fatal accidents have occurred in the history of pressure vessel development and operation. Improper selection, inadequate strength, patent defects and poor operating practices, etc., are some of the known causes for failure of the lifting equipment, as well as, pressure vessels which can result in fatal or serious injuries and also damage to equipment, material or other facilities. To prevent such unwanted events, it is essential that users of these equipments are familiar with the various safety requirements relating to their design, construction, testing, examination, maintenance and operation. These equipments are also required to be periodically examined and tested as prescribed under different statutes. Various Rules and Regulations under different statutes for the safe use of the lifting appliances and pressure vessels have laid down guidelines for safe operation.

OBJECTIVE

This 3-day State Level training programme is designed to create awareness on for testing and examination of lifting machines, chains, ropes and lifting tackles. It aims at developing the technical competence of the competent persons and technical persons in testing and examination of lifting appliances, pressure vessels and in enhancing their awareness in the safe use.

TOPICS

- Relevant statutory provisions under the Factories Act, 1948 & Rules
- Relevant statutory provisions under the Dock Workers (Safety, Health & Welfare) Regulations, 1990
- Safe Slinging Practices
- Actual Testing Procedures for Wire Rope Slings, Chain Slings, and Lifting Tackles like – Shackles, Eye Bolts etc.
- Testing and Examination of Pressure Vessels Under SMPV Rules, 1981 and Factories Rules 1963
- Inspection & Examination of Fork Lift & Hydra Crane.
- Inspection and Maintenance of Lifting Tackles, Chain Pulley Block, Slings
- Inspection and Examination of Lift/ Hoist
- Inspection and Examination of Mobile Crane and Tower Crane.
- Non Destructive Testing of Pressure Vessels and Lifting Machines

PARTICIPANTS

- Technical persons from industries and professional institutions/organisations (Maintenance Engineers/Supervisors, Technical Services, Engineers, Safety Professionals, etc.)
- Competent persons recognised for testing & examination of lifting appliances and pressure vessels.