



ADVANCED DIPLOMA OF MECHANICAL ENGINEERING TECHNOLOGY

MODULE DETAILS

Module 14: Safe Lifting

Nominal duration: 2 weeks (24 hours total time commitment)

This time commitment includes the preparation reading, attendance at each webinar (1 hour plus 15-30 minutes for discussion), and the time necessary to complete the assignments and further study.

MODULE PURPOSE

Lifting equipment refers to both the lifting tackle and the lifting machines. It should be emphasized that all loads are dangerous, as a 50 kg load will kill or maim as surely as a 5 ton load if dropped from a one-meter distance. Safety is not negotiable, therefore this module drives home the point that if lifting equipment is used correctly and safely, and operators and personnel are well-trained and in compliance with local legislation as well as with a Total Safe Lifting program, it will result in a productive work force.

PRE-REQUISITE MODULES/UNIT(S)

NONE

ASSESSMENT STRATEGY

To evaluate the achievement of the learning outcomes; written assignments, group projects and practical exercises are set.

SUMMARY OF LEARNING OUTCOMES

1. Examine and discuss the basic principles of safe lifting practice

Learning Outcome 1

Examine and discuss the basic principles of safe lifting practice

Assessment criteria

- 1.1 Examine and discuss the fundamental principles of safe lifting practice
- 1.2 Discuss the legal requirements for safe lifting
- 1.3 Describe the balancing of loads
- 1.4 Examine and discuss lifting tackle
- 1.5 Examine and discuss lifting machines
- 1.6 Examine and discuss the attributes and correct use of (a) chain slings, (b) steel wire rope slings and (c) textile slings



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Delivery Mode

A combination of asynchronous and synchronous e-learning delivery comprising a judicious mix of interactive online web conferencing, simulation (virtual labs) software, remote online labs, online videos, PowerPoint slides, notes, reading and study materials (in PDF, HTML and Word format) accessed through the Moodle Learning Management System (LMS).