

## Pressure and Leak Testing

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**Duration** 60 Minutes

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**Target group** Oil & Gas Industry

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**Prerequisites** No prerequisites are required to sit this course.

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**Objective**

- LO1: Explain the term 'pressure' and how it is measured
- LO2: Explain why pressure testing is conducted on plant and equipment exposed to high pressure
- LO3: Explain the relationship between operating pressure and test pressure
- LO4: List the legislation applicable to pressure testing
- LO5: Describe the potential hazards of pressure testing
- LO6: Explain why planning a pressure test is essential
- LO7: Explain the pressure test procedure document
- LO8: Identify the different pressure test methods
- LO9: Explain the difference between pressure testing and leak testing
- LO10: Explain how risks are controlled
- LO11: Identify the requirement for a permit to work
- LO12: Identify the competency requirements for personnel involved with pressure and leak testing
- LO13: Explain how to inspect the test equipment
- LO14: Describe the use of pressure gauges and their position in pressure testing
- LO15: Explain the purpose of isolation in pressure testing
- LO16: Identify the need for pressure safety valves and the importance of their positioning
- LO17: Explain how to assemble the test equipment correctly
- LO18: Explain why venting during hydrostatic tests is carried out
- LO19: Describe the safety measures implemented before pressure testing begins
- LO20: Describe the selection of the test medium
- LO21: Identify the precautions and the monitoring requirements during pressure build-up
- LO22: Describe the leak testing process
- LO23: Provide an understanding of the depressurisation techniques required after pressure testing
- LO24: Describe the disassembly of the test assembly
- LO25: Identify the hazards involved with using nitrogen
- LO26: Understand the hazards and precautions when working with compressed gas cylinders

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**Contents**

The course is available in the following languages: English; Thai; Bahasa Malay; Indonesian

The aim of this course is to explain the dangers posed by pressurised systems and the essential safety considerations for planning pressure-testing and leak-testing operations.

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**Exam** The assessment is taken during the course and is within the expected duration.

