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# ***ABLE Instruments & Controls Limited***

## **Introduction to Level Instrumentation**

### **Course LM001B: One day; Instructor-Led**

## ***ABLE Training - Education and Certification***

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## Introduction

Elements of this syllabus are subject to change.

A one-day review of level instrumentation designed to provide a broad understanding of the various types of commonly used level instruments and their applications. Delegates will have the opportunity to view all the main types of point and continuous level instruments, which are in operation on the ABLE rig facility.

## Audience

This course is suitable for those who would like an overview or refresher of level instrumentation and their applications but do not require in-depth knowledge of individual instrument technologies, which can be achieved on subsequent courses.

It is particularly suitable for:

- Graduates
- Managers
- Non-engineers
- Instruments Engineers
- Design Engineers
- Buyers

## Course Objectives

To provide delegates with the following:

- attain a basic understanding of common types of level instrument technologies, their operation and the advantages and disadvantages of each
- a better understanding of the principles of level instrumentation and the ability to apply the most suitable technology to an application
- an opportunity to see and use all the main types of level instrument in an operational situation on the ABLE rig
- have an insight into the practical operation of a variety of level instrumentation including communication methods and devices
- recognise the various types of commonly-used level instrumentation and explain their basic function



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## Prerequisites

This course requires that students meet the following prerequisites:

- There are no prerequisites for this course.

## Course Materials

The student kit includes a comprehensive workbook for this class and a rig manual for hands-on training.

## Course Outline

- Why measure level?
- The applications and benefits of using level instrumentation
- Overview of common level instrument technologies
- Process and material considerations in using level instrumentation
- Principles of measurement – advantages and disadvantages
- Level switching versus continuous measurement
- Point level instruments
  - Overview of the main types
  - Demonstration of main types
- Continuous level instruments
  - Overview of the main types
  - Demonstration of the main types