

Equipment and Process Investigation Programme Overview

Introduction

In spite of all our best efforts, when accidents and incidents result in work-related injuries, occupational illnesses, property damage, spills, fires and fatalities occur, they adversely affect business operations. Critically, to drive improvements, all incidents should be thoroughly investigated using proven methodologies.

Different levels of incidents demand the use of **appropriate investigation tools and techniques**. Minor incidents or near-misses may reveal significant potential for a serious future incident should the conditions be left uncorrected. Industry experience and recent developments in incident investigation thinking show how impactful these can be if undetected.

On this programme delegates will develop **knowledge and confidence to perform investigations** as well as will learn the latest thinking in incident investigation and reporting.

Programme Objectives

The programme will enable delegates to confidently perform equipment and process investigations ensuring that they correctly identify and address root causes.

Delegate will:

- Understand why investigations are an essential tool in minimising asset downtime and unplanned breakdowns.
- Understand the roles and responsibilities of key members of an incident investigation team.
- Explore different types of incident investigation methods using both uni-casual and multi-casual analysis and utilise Root Cause Analysis (RCA) to correctly identify underlying issues and failures.
- Discover how causal analysis and improvement measures are used to enable effective business decision making and yield continuous improvement.

- Be able to use incident investigations to contribute to a positive and continuously improving organisational culture.
- Develop confidence and professionalism in applying investigation techniques e.g. interviewing.
- How to identify corrective measures to avoid recurrence.
- Produce an improvement action plan.

Who should attend?

This programme is designed for professionals who have to perform equipment and process investigations including safety accidents, equipment failure and environmental incidents, e.g.

- Plant Managers; Engineering Managers; Production Managers
- Maintenance Managers and Engineers
- Operations Engineers
- HSE Managers

Programme duration, preparation & materials

This is a 2-day course that will include practical exercises and an assessment. Delegates must have a basic awareness and understanding of the organisation's business processes. Copies of the programme materials will be provided and delegates will receive a certificate of attendance upon successful programme completion.

Programme content

- Introduction to incident investigation and reporting – principles and theory
- Understanding the business context – drivers and enablers
- Why prevent accidents?
- Integrated incident investigation approach
- Selecting the correct investigation level
- Information gathering and investigation techniques
- Root Cause Analysis tools
- Corrective actions and report preparation
- Framework for continuous improvement
- Exercises, case studies and development a personal improvement plan

