Accident /Incident Investigation & Root Cause Analysis

Duration 5 Days

Introduction
Learn to use root cause analysis methodology for investigating incidences. This methodology will help attendees initiate a root cause analysis incident investigation, gather data for investigating all types of incidents, collect data through interviews and parts analyses, apply powerful techniques for causal factor identification, avoid future incidents by developing appropriate recommendations to address causal factors and root causes, structure reports for optimum effectiveness, develop your data-trending process to identify systemic problem areas, and more.

Who Should Attend
- Anyone who needs to learn incident investigation skills
- Anyone who needs to know how to meet requirements of standards and regulations for investigation of incidents with safety, health, reliability, environmental, and quality impacts

Course Objectives
Upon completion this program Participants will be able to:
- Define the purpose of incident investigation.
- Explain the importance of incident reporting.
- Describe evidence preservation techniques.
- Describe the investigation flow path.
- Define key terms used in incident investigation.
- Correctly complete incident reporting and investigation data.
- Analyze the causes of incidents.
- Make recommendations to prevent incident recurrence.
- Explain the importance of determining root cause.

Course Outlines:
1. **Theories of Accident Causations**
   1.1. Causation Theories
   1.2. System Theory
   1.3. Investigation's place in controlling risk
   1.4. Relationship between near miss and accidents
2. **An overview of investigation methodologies**
   2.1. Modern structured approach
   2.2. Description of tools
   2.3. Selecting an appropriate methodology
3. **Reporting and investigating near misses**
   3.1. Defining a near miss
   3.2. Why are so few near misses reported?
4. **Accident/ Incident recurrence (gathering Information)**
   4.1. Overview
   4.2. Sources of evidence
   4.3. Information from people
   4.4. Evidence gathering
   4.5. Evidence analysis
5. **Accident investigation flow path**
6. **Investigation methods**
   6.1. Root cause Analysis
   6.2. Fishbone
   6.3. Fault Tree Analysis
7. **Accident/ Incident reporting**
8. **Case Study**