

# ABI4010 – ABIOSH Certificate in Process Safety management (PSMCert) ©



This course introduces the PSM architecture (written programme, roles and responsibilities, implementation including training, record keeping and auditing). The course explores all 14 key elements (parts) of a comprehensive PSM programme and how the overall architecture applies to each. Links between elements and integration with existing and sometimes overlapping current company policies – such as quality and reliability programmes are also discussed. It provides an in-depth study of each PSM element and the specific guidelines for integrating PSM element requirements into other corporate programmes and evaluating programme compliance throughout the implementation phase. The course also covers how to expand your PSM programme to include the RBPS (risk based process safety) elements. The course will also cover every aspect of auditing from gathering data via records and interviews, keeping notes, report writing and making recommendations. Using all rules and methods taught in class, the second day is a workshop to audit actual PSM practices in a real-time setting. It will also teach students how to lead investigations and root cause analysis using various techniques such as Causal Factor Charting, Fault Tree Analysis and Root Cause Charts. This is a “How to” course designed to teach skills, an optional part of the course can include 1 to 2 hours of software instruction. It prepares students to evaluate existing practices versus recognised codes and standards and then to efficiently improve or develop and implement mechanical integrity (MI) programme. Topics also include how to merge MI programmes with a reliability programme. Finally the course teaches students how to write effective step-by-step operating procedures and how to develop troubleshooting guides from PHA documentation. The first day of the course is for both operations and maintenance personnel The second day is mainly for operators – as they typically write more in-depth troubleshooting guides Case studies and exercises are used throughout the

course to illustrate interpretations of the requirements and demonstrate ways to develop an effective PSM programme, including several video based case studies.

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**PRE-REQUISITE:** None

**DURATION:** 1 Week

### **TARGET AUDIENCE**

- HSE professionals; Compliance Auditors
- Operations and Safety Managers
- Process/Safety/Mechanical Engineers
- Environmental Management and Technicians
- PSM Implementation Team Members
- Operations and Maintenance Staff
- Process reliability staff; Quality Control Managers and Staff
- Process quality control/assurance staff
- PSM Coordinators and Quality Compliance Audit

### **COURSE CONTENTS**

#### **PSM 1**

- Employee Participation
- Process Safety Information
- Operating Procedures
- Hot Work Permit/Safe Work Practices
- Training
- Contractors
- Process Hazard Analysis
- Management of Change
- Mechanical Integrity
- Pre-Startup Safety Review
- Emergency Planning and response
- Incident Investigation/Root cause analysis

- Compliance Auditing
- Trade Secrets
- Management Commitment and Accountability
- Auditing for Process and Risk Management plan
- Writing effective operating and maintenance procedures

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## PSM 2

Practical application which involves writing a PSM Implementation Plan for a chosen process taking into consideration the 14 elements of Process Safety Management.

## EXAM STRUCTURE

### PSM1:

For this qualification students will be required to sit a confirmation test or e portfolio project

### PSM2 Project:

**To be submitted no later than 3 weeks after the exams**

Here you can create the content that will be used within the module.