

# Strategic Implementation of Risk Based Process Safety (RBPS)

*Kigali (Rwanda)*

*11 - 15 August 2025*

UK Training

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## Strategic Implementation of Risk Based Process Safety (RBPS)

Code: HS28 From: 11 - 15 August 2025 City: Kigali (Rwanda) Fees: 4000 Pound

### Introduction

Risk-Based Process Safety Management RBPS was developed by the Center for Chemical Process Safety CCPS in the USA and builds on the original process safety management ideas published in the early 1990s. RBPS provides a guideline that helps build and operate a more effective system to manage process risks. This course will assist companies to reduce risk and avoid losses reducing from the unintended releases of toxic, reactive, or flammable liquids and gases in processes involving highly hazardous materials. RBPS also has industry-wide benefits as an incident at an unrelated company negatively affects the public's perception of the entire chemical and oil industries. Course participants will have one sight visit to a company related to their job specification Petrochemical company.

### Course Objectives of Risk-Based Process Safety Management RBPS

- Understand how major accidents happen in the chemical and oil industries
- Identifying potential failure modes or deviations that could lead to incidents at your company's processing facilities
- Understand and discuss the principles of an inherently safer design
- Understand the framework for Risk-Based Process Safety Management
- Understand and discuss the application of the twenty elements of RBPS
- Understand the auditing system of PSM
- Understand some process hazard analysis techniques such as SIL & LOPA

### Risk-Based Process Safety Management RBPS Course Outlines

#### Day 1

- Importance of process safety management.
- Key requirements for process safety management.
- Process safety culture and competency
- Compliance with standards
- Authentic leadership and commitment to process safety

#### Day 2

- Training and Performance Assurance
- Management of Change
- Operational Readiness
- Operational Discipline
- Emergency Management

#### Day 3

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- Incident Investigation
- Measurement and Metrics
- Auditing
- Management Review and Continuous Improvement
- Contractor Management

#### Day 4

- Process Safety Culture
- Compliance with Standards
- Process Safety Competency
- Workforce Involvement
- Overview of LOPA & SIL

#### Day 5

- Process Knowledge Management
- Hazard Identification and Risk Analysis
- Operating Procedures
- Safe Work Practices
- Asset Integrity and Reliability



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