COURSE OVERVIEW HE1384
API RP 750: Management of Process Hazards

Course Title
API RP 750: Management of Process Hazards

Course Date/Venue
Session 1: May 19-23, 2025/Fujairah Meeting Room, Grand Milleneum, Al Wahda Hotel, Abu Dhabi, UAE
Session 2: November 09-13, 2025/Boardroom 1, Elite Byblos Hotel, Sheikh Zayed Road, Dubai, UAE

Course Reference
HE1384

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description

This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview of API RP 750: Management of Process Hazards. It covers the importance of process hazard management, regulatory requirements and industry best practices related to process hazards; the role of process safety information (PSI) in process hazard management; the requirement for documenting and maintaining PSI; the methods for gathering, organizing and updating PSI; the hazard identification techniques, failure modes and effects analysis (FMEA) and risk assessment methodologies; the risk ranking and prioritizing hazards; the mitigation strategies and risk reduction measures based on identified hazards; and the management of change (MOC), change evaluation, documentation and communication processes.

During this interactive course, participants will learn the effective operating procedures, mechanical integrity, equipment inspection, testing and maintenance strategies; the emergency response planning and procedures, incident investigation process and techniques; the root cause analysis and reporting and documentation of incidents; the corrective and preventive actions (CAPAs); the process safety audits, audit planning, execution and follow-up activities; the performance metrics for measuring process safety performance; the key performance indicators (KPIs) for process hazard management; the benchmarking and industry comparisons; the process safety performance indicators; evaluating effectiveness of risk control measures; and the continuous improvement strategies and practices.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on process hazard management in accordance with API RP 750
- Discuss the importance of process hazard management, regulatory requirements and industry best practices related to process hazards
- Identify the role of process safety information (PSI) in process hazard management
- Recognize the requirements for documenting and maintaining PSI as well as the methods for gathering, organizing and updating PSI
- Carryout hazard identification techniques, failure modes and effects analysis (FMEA) and risk assessment methodologies
- Determine risk ranking and prioritizing hazards as well as mitigation strategies and risk reduction measures based on identified hazards
- Apply management of change (MOC), change evaluation, documentation and communication processes
- Develop and maintain effective operating procedures, mechanical integrity and equipment inspection, testing and maintenance strategies
- Employ emergency response planning and procedures, incident investigation process and techniques, root cause analysis and reporting and documentation of incidents
- Develop corrective and preventive actions (CAPAs), conduct process safety audits and perform audit planning, execution and follow-up activities
- Employ performance metrics for measuring process safety performance, key performance indicators (KPIs) for process hazard management and benchmarking and industry comparisons
- Monitor and review process safety performance indicators, evaluate effectiveness of risk control measures and apply continuous improvement strategies and practices

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of process hazards management in accordance with API RP 750 for process safety engineers, plant managers and supervisors, safety professionals, operations and maintenance personnel, engineers and design professionals, HSE (health, safety, and environment) professionals and regulatory and compliance personnel.

Course Fee

US$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Instructor

This course will be conducted by the following instructor. However, we have the right to change the course instructor prior to the course date and inform participants accordingly:

Mr. Raymond Tegman is a **Senior HSE Consultant** with extensive experience within the **Oil & Gas**, **Petrochemical** and **Refinery** industries. His broad expertise widely covers in the areas of **Rigging** Safety Rules, Machinery & Hydraulic **Lifting Equipment**, Handling **Hazardous Chemicals**, Spill Containment, **Fire** Protection, **Fire** Precautions, **Incidents & Accidents** Reporting, **HSEQ** Audits & Inspection, **HSEQ** Procedures, **Environmental** Awareness, **Waste** Management Monitoring, **Emergency Planning**, **Emergency** Management, **Working at Heights**, **Root Cause Analysis**, **HSE** Rules & Regulations, Process Safety Management (**PSM**), Process Hazard Analysis (**PHA**), Techniques, **HAZOP**, **HSE** Risk, **Pre-Start-up Safety** Reviews, **HSE Risk** Identification, Assessments & Audit, **HSE Risk** Assessment & Management Concepts, **HSE Management** Policy & Standards, **HSSE Emergency Response & Crisis Management** Operations, **Confined Space Entry**, **Quantitative Risk Assessment** (**QRA**), Hazardous Materials & Chemicals Handling, Safety Precaution & Response Action Plan, **Hazard & Risk** Assessment, Task Risk Assessment (**TRA**), **Incident Command**, **Accident & Incident Investigation**, **Emergency Response Procedures**, Job Safety Analysis (**JSA**), Behavioural Based Safety (**BBS**), **Fall Protection**, **Work Permit & First Aid**, Lock-out/Tag-out (**LOTO**), **Emergency Response**, **Construction** Supervision, **Scaffolding** Inspection, **HAZCHEM**, Manual Material Handling, **Road Traffic** Supervision, ISO 9001 and OHSAS 18001.

During his career life, Mr. Tegman has gained his practical and field experience through his various significant positions and dedication as the **Operations Manager**, **Safety & Maintenance Manager**, **Safety Manager**, **Road/Traffic Supervisor**, **Assessor/Moderator**, **Safety Consultant**, **Safety Advisor**, **Safety Officer** and **Liaison Officer** from Zero Harm, SHRA Training & Services (Health & Safety), Road Crete, Balwin Property Development, DEME International, Gladstone Australia, Godavari Gas Pipeline and New Castle NCIG.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to API RP 750 & Process Hazard Management*** *API RP 750: Management of Process Hazards ● Key Concepts & Definitions in Process Hazard Management*
0930 – 0945	*Break*
0945 – 1130	***Introduction to API RP 750 & Process Hazard Management (cont'd)*** *Importance of Process Hazard Management in Ensuring Safety & Preventing Accidents ● Regulatory Requirements & Industry Best Practices Related to Process Hazards*
1130 – 1245	***Process Safety Information (PSI)*** *Role of Process Safety Information (PSI) in Process Hazard Management ● Types of PSI & their Significance ● Requirements for Documenting & Maintaining PSI*
1245 – 1300	*Break*
1300 – 1420	***Process Safety Information (PSI) (cont'd)*** *Methods for Gathering, Organizing & Updating PSI ● Case Studies Highlighting the Importance of Accurate & Up-to-Date PSI*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Hazard Identification & Risk Assessment*** *Hazard Identification Techniques: What-If Analysis, Hazard & Operability (HAZOP) Study, Failure Modes & Effects Analysis (FMEA), Etc. ● Risk Assessment Methodologies: Qualitative, Semi-Quantitative & Quantitative Approaches*
0930 – 0945	*Break*
0945 – 1130	***Hazard Identification & Risk Assessment (cont'd)*** *Determining Risk Ranking & Prioritizing Hazards ● Mitigation Strategies & Risk Reduction Measures Based on Identified Hazards*
1130 – 1245	***Management of Change (MOC)*** *Management of Change (MOC) Process & Its Significance in Process Hazard Management ● Roles & Responsibilities of MOC Personnel ● Key Elements of an Effective MOC Program*
1245 – 1300	*Break*
1300 – 1420	***Management of Change (MOC) (cont'd)*** *Change Evaluation, Documentation & Communication Processes ● Case Studies Illustrating the Importance of MOC In Preventing Process Incidents*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3

0730 – 0930	***Operating Procedures & Training*** *Developing & Maintaining Effective Operating Procedures ● Process Safety-Related Aspects of Operating Procedures ● Training Requirements for Personnel Involved in Process Operations*
0930 – 0945	*Break*
0945 – 1130	***Operating Procedures & Training (cont'd)*** *Competency Assessment & Certification ● Incorporating Process Safety Training into Overall Training Programs*
1130 – 1245	***Mechanical Integrity*** *Mechanical Integrity Requirements in API RP 750 ● Developing & Implementing an Effective Mechanical Integrity Program ● Equipment Inspection, Testing & Maintenance Strategies*
1245 – 1300	*Break*
1300 – 1420	***Mechanical Integrity (cont'd)*** *Documentation & Record-Keeping Practices for Mechanical Integrity ● Case Studies on the Consequences of Inadequate Mechanical Integrity Practices*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4

0730 – 0930	***Emergency Preparedness & Response*** *Importance of Emergency Preparedness in Managing Process Hazards ● Emergency Response Planning & Procedures ● Roles & Responsibilities During an Emergency*
0930 – 0945	*Break*
0945 – 1130	***Emergency Preparedness & Response (cont'd)*** *Communication & Coordination with External Agencies ● Conducting Emergency Drills & Exercises*
1130 – 1245	***Incident Investigation & Analysis*** *Incident Investigation Process & Techniques ● Root Cause Analysis Methodologies ● Reporting & Documentation of Incidents*
1245 – 1300	*Break*
1300 – 1420	***Incident Investigation & Analysis (cont'd)*** *Developing Corrective & Preventive Actions (CAPAs) ● Lessons Learned & Knowledge Sharing for Continuous Improvement*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

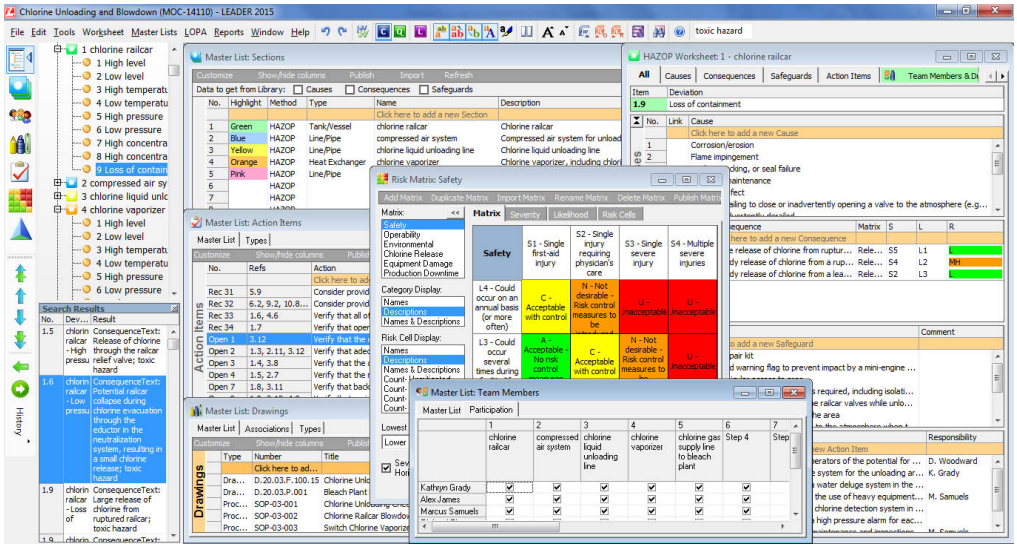
Day 5

0730 – 0930	***Auditing & Performance Metrics*** *Conducting Process Safety Audits ● Audit Planning, Execution & Follow-Up Activities ● Performance Metrics for Measuring Process Safety Performance*
0930 – 0945	*Break*
0945 – 1045	***Auditing & Performance Metrics (cont'd)*** *Key Performance Indicators (KPIs) for Process Hazard Management ● Benchmarking & Industry Comparisons*

1045 – 1145	***Management Review & Continuous Improvement*** *Management Review Process & Its Role in Process Hazard Management ● Monitoring & Reviewing Process Safety Performance Indicators ● Evaluating Effectiveness of Risk Control Measures*
1145 – 1300	*Break*
1300 – 1345	***Management Review & Continuous Improvement (cont'd)*** *Continuous Improvement Strategies & Practices ● Future Trends & Emerging Technologies in Process Hazard Management*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 - 1415	***POST TEST***
1415 - 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our state-of-the-art "Haward PHA/HAZOP" Simulator.



Haward PHA/HAZOP Simulator

Course Coordinator

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