

# COURSE OVERVIEW HE0851 Certified Incident Investigation Reporting

## **Course Title**

Certified Incident Investigation Reporting

#### **Course Date/Venue**

February 04-08, 2024/The Mouna Meeting Room, The H Hotel, Sheikh Zayed Road, Dubai, UAE

# Course Reference

HE0851

## **Course Duration/Credits**

Five days/3.0 CEUs/30 PDHs



## **Course Description**



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

Incident investigation and reporting describe the process and responsibilities for internal reporting of

This practical and highly-interactive course



Incident investigation and reporting describe the process and responsibilities for internal reporting of HSE incidents which occurs in company's operational area or related to company's activity. A high percentage of incidents are caused by human error and lack of proper training. The number of such incidents may be greatly reduced by thorough investigation of incidents, establishing root causes, implementing effective corrective and preventative actions. This course is designed to introduce the attendees to established methods, of achieving this in a structured and proven manner.



This course is designed to provide participants with a comprehensive knowledge and skills on the techniques and procedures for incident investigation and reporting. It covers the incident and accident investigation process and the related company's procedures; the common causes of incidents and the various types of incident to investigate; the incident investigation techniques; the link between investigation and risk assessment, framework for incident investigation and analysis; and the analyses and commutate data.



















The root cause analysis presented in this course is designed for use in investigating and categorizing the root causes of events with safety, health, environmental, quality, reliability and production impacts, although the exercises and case studies used in this course are predominantly those having safety and health impacts.

OSHA Incident [Accident] Investigations: A Guide for Employers (2015) will be used as guidance document provides participants with a systems approach to identifying and controlling the underlying or root causes of all incidents in order to prevent their recurrence. NFPA 921 will also be used to set the bar for scientific-based investigation and analysis of fire and explosion incidents.

By the end of the course, participants will be able to employ incident investigation to identify true root causes; recognize the root cause analysis, intermediate and root cause of incidents, cause tree analysis, fault tree analysis and events and causal factors carryout various strategies to ensure the organization learns from safety failures; employ structured data collection, investigating, interviewing and story boarding; apply applicable accident investigation procedures and investigate accidents and incidents in a professional manner; develop conclusions and recommendations; illustrate company's HSE incidents reporting flow diagram; and perform proper incident reporting.

API RP 585, Pressure Equipment Integrity Incident Investigation, recommended practice will be used as case study during the course in addition to API Investigation Tiers and Root Cause Analysis

#### **Course Objectives**

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

- Get certified as a "Certified Incident Investigator"
- Apply and gain a good working knowledge on incident reporting and investigation
- Discuss incident and accident investigation process and define related company's procedures
- Identify the common causes of incidents and the various types of incident to investigate
- Prevent, report and apply incident investigation techniques
- Determine the link between investigation and risk assessment as well as the framework for incident investigation and analysis
- Collect analyses and commutate data
- Employ incidents investigation to identify true root causes
- Recognize the root cause analysis, intermediate and root cause of incidents, cause tree analysis, fault tree analysis and events and causal factors analysis
- Carryout various strategies to ensure the organization learns from safety failures
- Employ structured data collection, investigating, interviewing and story boarding
- Apply applicable accident investigation procedures and investigate accidents and incidents in a professional manner
- Develop conclusions and recommendations, illustrate company's HSE incidents reporting flow diagram and proper incident reporting
- Recognize OSHA Incident [Accident] Investigations, NFPA 921, API RP 585, and ISO 45001 standards





















## 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, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a Tablet PC.

## **Applicable Codes & Standards**

This course is based on the following Codes & Standards: -

- NFPA (National Fire Protection Association) 921 Standard: This standard provides guidelines for fire and explosion investigations, including procedures for evidence collection and analysis, and guidelines for determining the origin and cause of a fire or explosion.
- OSHA (Occupational Safety and Health Administration) Standards: OSHA provides guidelines for employers to follow in the event of a workplace incident. The guidelines include reporting requirements, investigations, and corrective actions to prevent future incidents.
- API (American Petroleum Institute) RP (Recommended Practice) 754: This standard provides guidelines for process safety performance measurement, including incident investigation, root cause analysis, and corrective action implementation.
- ISO (International Organization for Standardization) 45001 Standard: This standard provides guidance for establishing and maintaining an Occupational Health and Safety Management System (OHSMS). It includes guidelines for conducting incident investigations, analyzing root causes, and implementing corrective actions.
- ANSI (American National Standards Institute) Z16.2 Standard: This standard provides a framework for conducting incident investigations and includes guidelines for reporting and analysis.

#### Who Should Attend

This course provides an overview of all significant aspect and considerations of incident investigation and reporting for managers, team leaders, engineers, superintendents, supervisors and those in-charge of incident investigation or reporting.

## **Accommodation**

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

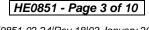


















## **Course Certificate(s)**

Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Successful candidate will be certified as a "Certified Incident Investigator". Certificates are valid for 5 years.

#### Recertification is FOC for a Lifetime.

# **Sample of Certificates**

The following are samples of the certificates that will be awarded to course participants:-







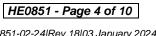






















(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.





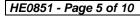






















## **Certificate Accreditations**

Certificates are accredited by the following international accreditation organizations: -

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.



## **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.

## **Training Methodology**

All our Courses are including Hands-on Practical Sessions using equipment, State-ofthe-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.

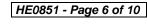


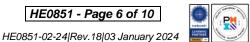
















## Course Instructor(s)

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



Mr. Ahmed Mady is a Senior HSE Consultant with over 40 years of field experience. He is well-versed in the areas of Environmental Management System (EMS), Management System Auditing, Occupational Health, Safety & Environment (HSE), Environmental & Waste Management, Environmental Management & Technology (EMT), Environmental Pollution & Control, Environmental Impact Assessment (EIA), Waste Management Environmental Protection, HAZMAT, HAZCOM, Accident & Incident

Investigation, Emergency Response, Hazard Recognition, Hazard Assessment, Risk Control, Risk Monitoring Techniques, Radioactive Chemicals, Emergency Procedures, First Aid & PPE, MSDS, Chemical Hazards, Chemical Monitoring & Protection, Chemical Spill Clean Up, Strategic Planning, Security Management, Crisis Management, Environmental Awareness, Search & Rescue Operations, HSE Management, Risk Analysis Evaluation & Management, Security Operations Management, Investigation & Security Surveying, Security Crisis Management, Corporate Security Planning, Strategic Analysis, Strategy Selection & Implementation, Security Policies & Procedures, Logistics Management, Systems Analysis & Design and Organization Procedure Evaluation & Auditing.

During his service, he had been tasked as the Chief Information Directorate of the Ministry of Civil Aviation and the Chief Engineering Analyst, On-Scene Commander (OSC) & Incident Commander (IC) in the Air Force and was responsible for a team of engineers supporting all engineering studies, modifications, aging studies and maintenance analysis. Being a Board Member of the Aviation Information Technology Center, he holds control of the overall strategies and procedures for the ministry, contracting for major IT projects, supervising all IS activities in the aviation sector and ensuring quality and success of delivery. He had likewise served as the Commander of the Air Force and had worked closely with the Logistics Computer Center wherein he gave out direction on Operational & Tactical Logistics Planning and Strategic Military Logistics to numerous high ranking officials, and at the same time commanding flying Air Force maintenance squadron logistics field activities. Mr. Ahmed retired in the service as a Major General.

Earlier in his career, Mr. Ahmed had occupied several challenging roles with several large Logistics companies as their General Manager, Maintenance Engineer, Systems Analyst, Training Branch Chief, Systems & Communication Engineer, Computer Programmer and Logistic Instructor. Moreover, he has worked as the Project Manager contracted by KNPC for the year 2014-2016 in delivering Certified Programs for Kuwaiti Contractor Employee (Electrical, Mechanical & Pipefitting, Welding & Fabrication, Process Operator, Instrumentation & Control). Further, he has travelled all over Europe, Asia and the Americas joining numerous conferences and workshops with the Ministry of Foreign Affairs and international companies such as IBM, System Science Corporation (SSC) and International Air Transport Association (IATA).

Mr. Ahmed has a Bachelor degree in Mechanical Engineering. Further, he has gained Diplomas on Civil Aviation Engineering, Islamic Studies and Information Systems & Technology. Moreover, he is a Certified Internal Verifier by City & Guilds Level 4 Certificate in Leading the Internal Quality Assurance of Assessment Processes & Practice and Certified Assessor in Level 3 Certificate in Assessing Vocational Achievement under the TAQA Qualification (Training, Assessment & Quality Assurance), a Certified Internal Verifier Level 2 & 3 NVQ Processing Operations: Hydrocarbons by the British City & Guilds, a Certified Internal Verifier/Trainer/Assessor by the British Institute of Leadership & Management (ILM) and a Certified Instructor/Trainer. Further, he has delivered various trainings, workshops and conferences worldwide.



















## **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 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:

Sunday, 04th of February 2024 Day 1.

Day I.	Sunday, 04 Of February 2024
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0900	Introduction to Incident Investigation
0900 - 0930	Principles of Accident Investigation
0930 - 0945	Break
0945 - 1030	Benefits of Accident Prevention
1030 - 1120	Company's Related Definitions/Procedures
1120 – 1230	Common Causes of Incidents
1230 – 1245	Break
1245 - 1320	Company's Definitions for Incidents, Near Misses, etc
1320 - 1420	Types of Incident to Investigate
1420 - 1430	Recap
1430	Lunch & End of Day One

Monday, 05th of February 2024 Day 2:

0730 - 0830	Preventing Incidents
0830 - 0930	Reporting Incidents
0930 - 0945	Break
0945 - 1030	Incident Investigations
1030 - 1120	Investigation Techniques
1120 – 1230	Accident Reporting & Scope of Investigation
1230 - 1245	Break
1245 - 1330	Accident Investigation Process using ISO 45001 Clause 10.2
1330 - 1420	Stages of Accident Investigation
1420 - 1430	Recap
1430	Lunch & End of Day Two

Tuesday, 06th of February 2024 Day 3:

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On Site Investigation Process
The Link between Investigation & Risk Assessment
Break
Framework for Incident Investigation & Analysis
Root Cause Analysis
Identifying Intermediate & Root Causes of Incidents using OSHA
Incident [Accident] Investigations: A Guide for Employers
Break
Cause Tree Analysis
Fault Tree Analysis
Recap
Lunch & End of Day Three



















Day 4: Wednesday, 07th of February 2024

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0730 - 0830	Basic Competencies of Human Factors
0830 - 0930	Events & Causal Factors Analysis
0930 - 0945	Break
0945 - 1100	Data to Include in Investigation Reports
1100 - 1230	Structured Data Collection
1230 - 1245	Break
1245 - 1330	Investigating Incident using ISO 45001  Step 1: Preserve & Document the Scene • Step 2: Collect Information • Step 3: Determine the Root-causes • Step 4: Implement Corrective Actions • Step 5: Feedback to Person(s) Reporting the Incident
1330 – 1420	Witness Interview Techniques
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: Thursday, 08th of February 2024

Day 5:	inursday, 08" of February 2024
0730 - 0830	Storyboarding, ISO 45001 Incident Reporting & Investigation
	Procedure Template
0830 - 0930	Developing Conclusions & Recommendations
0930 - 0945	Break
0945 - 1030	Company's HSE Incidents Reporting Flow Diagram
1030 - 1120	Reporting Incidents on My HSSE
1120 – 1215	Practical Exercise on Root Cause Analysis (Examples of Incidents and
	Workshop to Investigate a Sample) using NFPA 921 of Fire &
	Explosion Incidents
1215 - 1230	Break
1230 – 1300	Practical Exercises & Case Study using API RP 585, Pressure
	Equipment Integrity Incident Investigation & Recommended Practice
1300 - 1315	Course Conclusion
1315 - 1415	COMPETENCY EXAM
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course













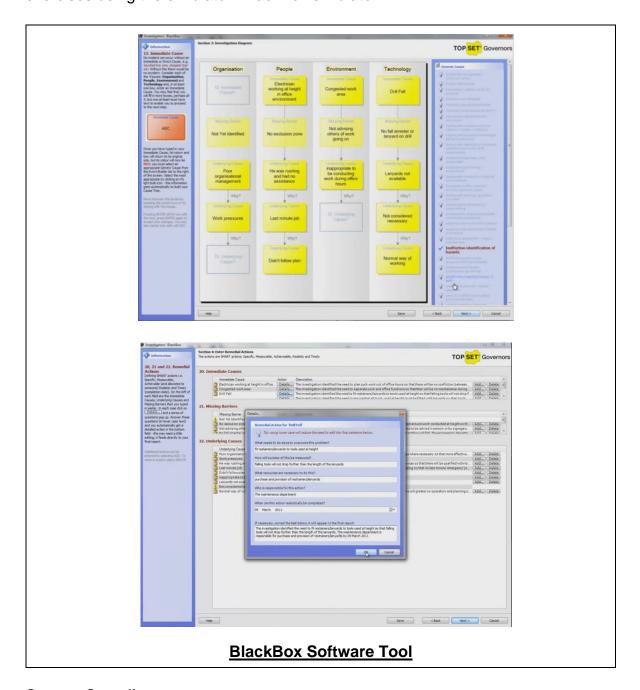






# **Simulator (Hands-on Practical Sessions)**

Practical session 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 the simulator "BlackBox simulator".



# **Course Coordinator**

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