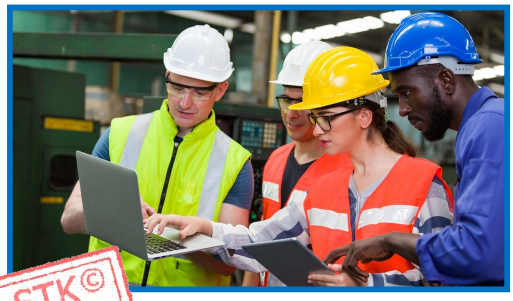
COURSE OVERVIEW HE1771
Critical Equipment & System Override

Course Title
Critical Equipment & System Override

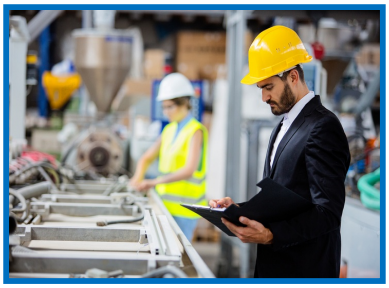


Course Date/Venue
Session 1: April 27-May 01, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
Session 2: November 24-28, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
HE1771

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

Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of HSE Critical Integrity Verification: HSE Critical Equipment and Systems (HSECES). It covers the HSE concepts and HSE critical equipment and systems (HSECES); the components and role of HSECES in maintaining safety and integrity; the importance of HSECES and the consequences of failure; the safety and risk management, risk analysis techniques and HSECES identification process; the criteria for identifying HSECES and the HSECES performance standards; and the maintenance strategies for HSECES, regular inspections, planning and scheduling inspections.

During this interactive course, participants will learn the HSECES verification process, procedures and documentation; the role of third-party verification; the requirements for HSECES certification, ensuring compliance with HSECES standards and auditing for compliance; the asset integrity management and failure mode and effects analysis (FMEA); the role of human factor in HSECES management; managing human errors and emergency response; and the documentation, record keeping and change management.

Course Objectives

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

- Apply and gain an in-depth knowledge on HSE critical integrity verification covering HSE critical equipment and systems (HSECES)
- Discuss the HSE concepts and HSE critical equipment and systems (HSECES)
- Identify the components and role of HSECES in maintaining safety and integrity
- Determine the importance of HSECES and its relevance to safety and operational integrity and the consequences of failure
- Carryout safety and risk management, risk analysis techniques and HSECES identification process
- Discuss the criteria for identifying HSECES and the role of risk analysis in HSECES identification and HSECES performance standards
- Develop, implement, monitor and maintain HSECES performance standards
- Employ maintenance strategies for HSECES including regular inspections and planning and scheduling inspections
- Apply HSECES verification process, procedures and documentation and identify the role of third-party verification
- List the requirements for HSECES certification, ensure compliance with HSECES standards and apply auditing for compliance
- Carryout asset integrity management and failure mode and effects analysis (FMEA)
- Recognize the role of human factor in HSECES management, manage human errors and apply emergency response
- Apply documentation, record keeping and change management and identify the role of risk analysis in change management

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

The course provides an overview of all significant aspects and considerations of HSE critical integrity verification covering HSE critical equipment and systems (HSECES) for all operations managers, supervisors, maintenance engineers, technicians, safety engineers, officers, quality assurance, risk management specialists and emergency response team.

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(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. Peter Christian is an **International Expert** in **Safety**, **Health**, **Environmental** and **Quality** with over **30 years** of practical and industrial experience in **NEBOSH** International General Certificate in Occupational Health & **Safety**, **Lifting & Rigging Equipment HAZOP**, **HAZWOPER**, **HAZMAT**, **HAZCOM**, **PHA** (**Process Hazard Analysis**), **FMEA**, **HAZID**, **ISO 14001**, **OHSAS 18001**, **ISO 9001**, Process Safety Management (**PSM**), Safety, Health, Environmental & Quality Management (**SHEQ**), **Behavioral Safety Management**, **Industrial Hygiene**, **Human Factors Engineering**, **Risk Assessment**, Fire Fighting, Rope Rescue Operations, Emergency Response within process industries. He is currently the **President** of **NKWE** and spearheads the companies major projects and business ventures, where he specializes in the areas of **SHEQ** solutions, **ISO**, **Quality Control** and **OSHA systems**. Previously, he has had much on–hand experience in the initiation and management of projects (technical as well organizational development) including involvement in **design of process plants**; **the commissioning & decommissioning** of process plants; the **operational and financial responsibility** for large process operations; **risk management**; **operational and maintenance management**, **crisis and emergency management**, **accident investigation**, **risk assessment**, **hazard identification** and **emergency preparedness & response** (oil spillage and gas explosions).

Much earlier in his career, Mr. Christian was a **HAZOP Team Leader** for numerous **HAZOP** studies and he has further managed the **Health, Safety & Environmental** and **Quality** requirements of a large process company. This included responsibilities as an auditor for compliance against **SHEQ standards**, **ISO standards** and the **Fatal Risk Control Protocols**. He then facilitated the development and implementation of the above standards as a group and at site level as part of the SHEQ council. Moreover, he established, trained and led a Rope rescue team and a high level emergency care clinic and ambulance service for many years. He still abseils recreationally and leads adventure groups during abseiling activities and serves as a rescue team member for mountain and water emergencies.

During his career life, Mr. Christian has gained his practical and field experience through his various significant positions as the **Plant Manager**, **Project Metallurgist**, **Metallurgist**, **HSE Team Leader**, **SHEC Superintendent**, **Mentor**, Instructor/Trainer, Acting **Technical Manager**, **Process Plant Superintendent**, Acting **Project Leader**, Acting **Plant Superintendent**, Appointed **Health & Safety & Environmental Superintendent**, Production Technician, Acting **Senior Shiftsman**, Foreman and Learner – Official Extraction Metallurgy from various companies such as the NKWE Consulting, SAMANCOR, Middleburg Mine Services (Pty) Ltd., Koomfontein Mines, Emelo Mine Services, Gencor Group and South African Defence Force.

Mr. Christian has a **Postgraduate Studies** in **Advanced Executive Programme** and a **National Higher Diploma** (**NHD**) & a **National Diploma** in **Extraction Metallurgy**. He is also a **Certified/Registered Tutor** in **NEBOSH International General Certificate**, **Certified Auditor** in **OHSAS 18001**, **ISO 14001** & **ISO 9001**, a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**), a **Six Sigma Black Belt Coach** and holds a Certificate in Facilitate Learning Using a Variety of Given Methodologies **NQF Level 5** (**EDTP-SETA**) as a **Certified Facilitator**. He has further delivered innumerable courses, trainings, workshops and conferences globally.

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 – 1000	***Introduction to HSE Critical Integrity Verification*** *Overview of Health, Safety & Environment (HSE) Concepts • Importance of HSE in Industry • Introduction to HSE Critical Equipment & Systems (HSECES)*
1000 – 1015	*Break*
1015 – 1130	***Understanding HSECES*** *Defining HSECES • Role of HSECES in Maintaining Safety & Integrity • Components of HSECES*
1130 – 1230	***Importance of HSECES*** *Relevance of HSECES to Safety & Operational Integrity • Case Studies Demonstrating the Impact of HSECES • Consequences of Failure of HSECES*
1230 – 1245	*Break*
1245 – 1420	***Safety & Risk Management*** *Basics of Risk Management • Role of HSECES in Risk Management • Risk Analysis Techniques*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 1000	***HSECES Identification Process*** *The Process of HSECES Identification • Criteria for Identifying HSECES • Role of Risk Analysis in HSECES Identification*
1000 – 1015	*Break*
1015 – 1130	***HSECES Performance Standards*** *Introduction to HSECES Performance Standards • Developing & Implementing HSECES Performance Standards • Monitoring & Maintaining HSECES Performance Standards*
1130 – 1230	***Maintenance & Inspection of HSECES*** *Maintenance Strategies for HSECES • Importance of Regular Inspections in HSECES*

1230 – 1245	*Break*
1245 – 1420	***Maintenance & Inspection of HSECES (cont'd)*** *Planning & Scheduling Inspections*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 1000	***HSECES Verification Process*** *The Process of HSECES Verification • Role of Third-Party Verification • Procedures & Documentation for HSECES Verification*
1000 – 1015	*Break*
1015 – 1130	***HSECES Certification & Compliance*** *Requirements for HSECES Certification • Ensuring Compliance with HSECES Standards • Auditing for Compliance*
1130 – 1230	***Asset Integrity Management*** *Basics of Asset Integrity Management (AIM) • Role of HSECES in AIM*
1230 – 1245	*Break*
1245 – 1420	***Asset Integrity Management (cont'd)*** *Achieving AIM through Effective HSECES*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 - 1000	***Failure Modes & Effects Analysis (FMEA) for HSECES*** *Basics of FMEA • Applying FMEA to HSECES • Understanding the Outcomes of FMEA*
1000 – 1015	*Break*
1015 – 1130	***Role of Human Factors in HSECES*** *Understanding the Human Factor in HSECES Management • Role of Training & Competency in HSECES • Managing Human Errors in HSECES*
1130 – 1230	***HSECES in Emergency Response*** *Role of HSECES in Emergency Response Planning • Emergency Response Equipment as HSECES • Testing & Drills for HSECES In Emergency Response*
1230 – 1245	*Break*
1245 – 1420	***Case Studies*** *Analysis of Real-World Scenarios Involving HSECES • Discussions on Lessons Learned & Best Practices • Group Exercises to Enhance Understanding of HSECES*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

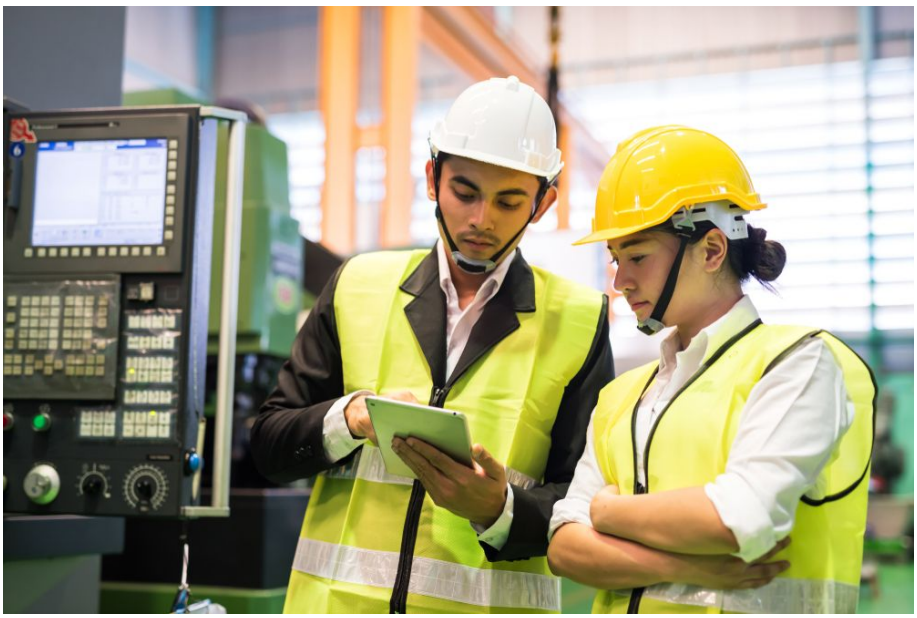
Day 5

0730 – 1000	***Documentation & Record Keeping for HSECES*** *Importance of Documentation in HSECES Management • Requirements for HSECES Record Keeping • Using HSECES Documentation for Continuous Improvements*
1000 – 1015	*Break*
1015 – 1130	***HSECES Change Management*** *Importance of Managing Changes in HSECES • Process for HSECES Change Management*
1130 – 1230	***HSECES Change Management (cont'd)*** *Role of Risk Analysis in Change Management*

1230 – 1245	*Break*
1245 – 1345	***Developing an HSECES Plan*** *Participants Develop a Sample HSECES Plan for a Fictional Scenario • Group Presentations on the HSECES plan • Feedback & Discussions*
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org