COURSE OVERVIEW HE0756
Rescue Operations in Hazardous Locations

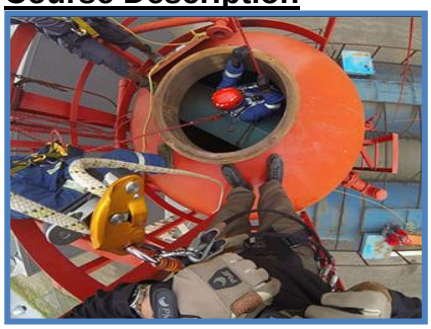
Course Title
Rescue Operations in Hazardous Locations

Course Date/Venue
Session 1: May 11-15, 2025/ Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
Session 2: September 07-11, 2025/ Al Khobar Meeting Room, Hilton Garden Inn, Al Khobar, KSA

Course Reference
HE0756

Course Duration/Credits
Five days/4.0 CEUs/40 PDHs (40 Hours)

Course Description



This practical and highly-interactive course includes practical sessions and exercises where participants carryout rope rescue operations from a confined space. Theory learned in the class will be applied using rope rescue methods and equipment.

The course is designed for persons who could be required to undertake a rescue of persons working in confined space like an oil tank. The successful attendees will be able to undertake rescue operations as part of an on-site emergency. The course will provide the skills and knowledge to attendees to confidently identify the equipment required, assess hazards associated with the task and safely perform rescue from heights or depths.

The course will provide foundational skills in confined space safety and rope rescue as well as rescue from fall protection.

Delegates will be certified based on the requirements of NFPA 1006 and 1670 to “Operations Level of Confined Space Rescue” (the certification testing should include performance evaluations as well as written exam).

Course Objectives

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

- Get certified in "Confined Space & Rope Rescue" to "Operations Level" in accordance with NFPA 1670
- Apply and gain a fundamental knowledge on confined space and rope rescue
- Identify legislation and reference material, vertical rescue terminology, general safety and equipment including karabiners, descenders, ascenders, slings, ropes and pulleys
- Determine mechanical advantage system, anchorage points as well as the edge protection, incident management and trauma response
- Explain OSHA confined space safety
- Evaluate confined spaces for hazards
- Recognize permit-required confined space entry and ventilating confined space
- Carryout descending, belaying, stretchers, anchor selection including raising/haulage systems
- Prepare for and respond to vertical rescue, assess scene, establish vertical rescue system as well as perform vertical rescue and terminate vertical rescue operations

Who Should Attend

This course is applicable to all fire fighting personnel, firemen, rescue and emergency personnel, HSE, operations, production, maintenance individuals and all other employees who are working in the process industry.

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 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

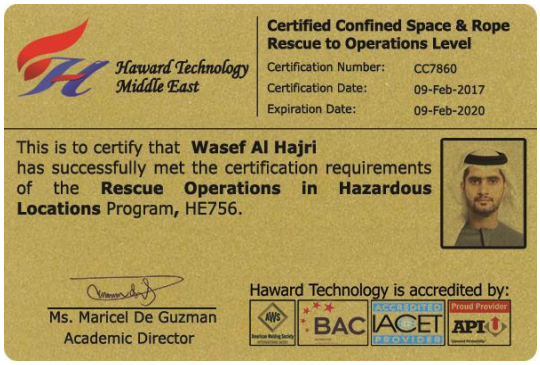
Course Certificate(s)

(1) 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 in *"Certified Confined Space & Rope Rescue"* to *"Operations Level"* in accordance with NFPA 1670. 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

Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

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CEU Official Transcript of Records

TOR Issuance Date: 09-Feb-17

HTME No. PAR11317

Participant Name: Wasef Al Hajri

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE756	**Rescue Operations in Hazardous Locations**	February 05-09, 2017	40	4.0

Total No. of CEU's Earned as of TOR Issuance Date **4.0**

TRUE COPY

Maricel De Guzman
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2013 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 Association 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 is accredited by

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | Fax: +971 2 3091 716 | E-mail: info@haward.org | Website: www.haward.org

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 **4.0 CEUs** (Continuing Education Units) or **40 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.

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. Andrew Ladwig is a **Senior Process & Mechanical Engineer** with over **25 years** of extensive experience within the **Oil & Gas**, **Refinery**, **Petrochemical & Power** industries. His expertise widely covers in the areas of **Ammonia Manufacturing & Process Troubleshooting**, **Distillation Towers**, **Crude Oil Distillation**, **Fundamentals of Distillation** for Engineers, **Distillation** Operation and Troubleshooting, **Advanced Distillation** Troubleshooting, **Distillation** Technology, Vacuum **Distillation**, **Ammonia Storage & Loading** Systems, **Ammonia Plant** Operation, Troubleshooting & Optimization, **Ammonia Recovery**, **Ammonia Plant Safety**, Hazard of **Ammonia Handling**, Storage & Shipping, **Operational Excellence** in **Ammonia Plants**, **Fertilizer Storage** Management (Ammonia & Urea), **Fertilizer Manufacturing** Process Technology, **Sulphur Recovery**, Phenol Recovery & Extraction, **Wax Sweating & Blending**, **Petrochemical & Fertilizer** Plants, **Nitrogen Fertilizer** Production, **Petroleum Industry Process** Engineering, **Refining Process & Petroleum Products**, **Refinery Planning & Economics**, Safe **Refinery Operations**, **Hydrotreating & Hydro-processing**, **Separators** in **Oil & Gas** Industry, **Gas Testing & Energy** Isolations, Gas Liquor Separation, **Industrial Liquid Mixing**, **Wax Bleachers**, **Extractors**, **Fractionation**, Operation & Control of **Distillation**, Process of **Crude ATM & Vacuum Distillation** Unit, **Water Purification**, **Water Transport** & Distribution, **Steam & Electricity**, **Flame Arrestors**, **Coal Processing**, **Environmental Emission Control**, R&D of **Wax Blending**, **Wax** Molding/Slabbing, **Industrial Drying**, Principles, Selection & Design, Certified **Process Plant** Operations, Control & Troubleshooting, **Operator** Responsibilities, **Storage Tanks Operations** & Measurements, **Process Plant** Troubleshooting & Engineering Problem Solving, **Process Plant Performance**, Efficiency & Optimization, Continuous Improvement & Benchmarking, **Process Troubleshooting** Techniques, Oil & Gas Operation/Introduction to **Surface Facilities**, **Pressure Vessel** Operation, **Process Equipment** Performance & Troubleshooting, **Plant Startup & Shutdown**, **Startup & Shutdown** the Plant While Handling Abnormal Conditions, **Flare & Relief** System, **Process Gas Plant** Start-up, Commissioning & Problem Solving, **Process Liquid** and **Process Handling & Measuring** Equipment. Further, he is also well-versed in **Compressors & Turbines** Operation, Maintenance & Troubleshooting, **Heat Exchanger** Overhaul & Testing Techniques, Balancing of **Rotating Machinery** (**BRM**), **Pipe Stress** Analysis, **Valves & Actuators** Technology, Inspect & Maintain **Safeguarding Vent & Relief System**, Certified Inspectors for **Vehicle & Equipment**, Optimizing **Equipment Maintenance** & Replacement Decisions, Certified Maintenance Planner (**CMP**), Certified Planning and Scheduling Professional (**AACE-PSP**), **Tank Design**, Construction, Inspection & Maintenance, **Material Cataloguing**, Specifications, Handling & Storage, **Steam Trap** Design, Operation, Maintenance & Troubleshooting, **Steam Trapping & Control**, **Column**, **Pump & Exchangers**, Troubleshooting & Design, **Rotating Equipment** Operation & Troubleshooting, **Control & ESD** System, **Detailed Engineering Drawings**, Codes & Standards, **Budget** Preparation, Allocation & Cost Control, Root Cause Analysis (**RCA**), **Production Optimization**, Permit to Work (**PTW**), Project Engineering, **Data** Analysis, **Process Hazard** Analysis (**PHA**), **HAZOP** Study, Sampling & Analysis, **Training** Analysis, **Job Analysis** Techniques, Storage & Handling of **Toxic Chemicals & Hazardous Materials**, **Hazardous Material** Classification & Storage/Disposal, **Dangerous Goods**, Environmental Management System (**EMS**), Supply Chain, Purchasing, Procurement, **Logistics** Management & **Transport** & **Warehousing** & **Inventory**, **Risk** Monitoring Authorized Gas Tester (**AGT**), Confined Space Entry (**CSE**), Personal Protective Equipment (**PPE**), Fire & Gas, First Aid and Occupational Health & Safety.

During his career life, Mr. Ladwig has gained his practical experience through his various significant positions and dedication as the **Mechanical Engineer**, **Project Engineer**, **Reliability & Maintenance Engineer**, **Maintenance Support Engineer**, **Process Engineer**, **HSE Supervisor**, **Warehouse Manager**, **Quality Manager**, **Business Analyst**, **Senior Process Controller**, **Process Controller**, **Safety Officer**, **Mechanical Technician**, **Senior Lecturer** and **Senior Consultant/Trainer** for various companies such as the Sasol Ltd., Sasol Wax, Sasol Synfuels, just to name a few.

Mr. Ladwig has a **Bachelor's** degree in **Chemical Engineering** and a **Diploma** in **Mechanical Engineering**. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and has delivered various trainings, workshops, seminars, courses and conferences internationally.

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:

THEORETICAL SESSIONS:

Day 1

0730 – 0745	*Registration & Coffee*
0745 – 0800	*Welcome & Introduction*
0800 – 0815	***PRE-TEST***
0815 – 0900	***Legislation & Reference Material***
0900 – 0915	*Break*
0915 – 1130	***Vertical Rescue Terminology***
1130 – 1230	***General Safety***
1230 - 1330	*Lunch*
1330 – 1400	***Equipment (Karabiners, Descenders, Ascenders, Slings, Ropes, Pulleys)***
1400 – 1500	***Mechanical Advantage Systems***
1500 – 1515	*Break*
1515 – 1620	***Anchorage Points***
1620 – 1630	***Recap***
1630	*End of Day One*

Day 2

0730 – 0930	***Edge Protection***
0930 – 0945	*Break*
0945 – 1130	***Incident Management***
1130 – 1230	***Trauma Response***
1230 - 1330	*Lunch*
1330 – 1430	***OSHA Confined Space Safety***
1430 – 1500	***Evaluating Confined Spaces for Hazards***
1500 – 1515	*Break*
1515 – 1620	***Permit-required Confined Space Entry***
1620 – 1630	***Recap***
1630	*End of Day Two*

Day 3

0730 – 0830	***Ventilating Confined Space***
0830 – 0930	***Descending***
0930 – 0945	*Break*
0945 – 1130	***Belaying***
1130 – 1230	***Stretchers***
1230 - 1330	*Lunch*
1330 – 1500	***Anchor Selection***
1500 – 1515	*Break*
1515 – 1620	***Raising /Haulage Systems***
1620 – 1630	***Recap***
1630	*End of Day Three*

PRACTICAL SESSIONS: *Prepare for and Respond to Vertical Rescue ● Assess Scene ● Establish Vertical Rescue System ● Perform Vertical Rescue ● Terminate Vertical Rescue Operations*

Day 4

0730 – 0830	***Practical Session***
0830 – 0930	***Practical Session (cont'd)***
0930 – 0945	*Break*
0945 – 1045	***Practical Session (cont'd)***
1045 – 1145	***Practical Session (cont'd)***
1145 - 1230	***Practical Session (cont'd)***
1230 - 1330	*Lunch*
1330 – 1430	***Practical Session (cont'd)***
1430 - 1500	***Practical Session (cont'd)***
1500 – 1515	*Break*
1515 – 1620	***Practical Session (cont'd)***
1620 – 1630	***Recap***
1630	*End of Day Four*

Day 5

0730 – 0830	***Practical Session (cont'd)***
0830 – 0930	***Practical Session (cont'd)***
0930 – 0945	*Break*
0945 – 1045	***Practical Session (cont'd)***
1045 - 1145	***Practical Session (cont'd)***
1145 – 1230	***Practical Session (cont'd)***
1230 – 1330	*Lunch*
1330 – 1430	***Practical Session (cont'd)***
1430 – 1445	*Break*
1445 – 1500	***Practical Session (cont'd)***
1500 - 1515	***Course Conclusion***
1515 – 1615	***COMPETENCY EXAM***
1615 – 1630	*Presentation of Course Certificates*
1630	*End of Course*

Practical Sessions

Practical sessions will be organized for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout rope rescue operations using Haward equipment. Theory learned in the class will be applied using the rope rescue methods and equipment.

Rope Rescue Operations

Course Coordinator

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