

**COURSE OVERVIEW HE0756**  
**Rescue Operations in Hazardous Locations**

**Course Title**

Rescue Operations in Hazardous Locations

**Course Date/Venue**

Session 1: August 11-15, 2024/Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey  
Session 2: November 25-29, 2024/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE



**Course Reference**

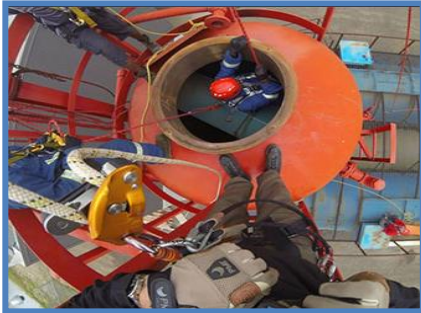
HE0756



**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 carry out 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**

Istanbul	<b>US\$ 6,000</b> per Delegate + <b>VAT</b> . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Abu Dhabi	<b>US\$ 6,000</b> per Delegate + <b>VAT</b> . 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 \* CEUs \* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \*



**Haward Technology Middle East**  
Continuing Professional Development (HTME-CPD)

**CEUs**  
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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










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### Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -


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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.

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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 (AAACE-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	<b>PRE-TEST</b>
0815 - 0900	<b>Legislation &amp; Reference Material</b>
0900 - 0915	Break
0915 - 1130	<b>Vertical Rescue Terminology</b>
1130 - 1230	<b>General Safety</b>
1230 - 1330	Lunch
1330 - 1400	<b>Equipment (Karabiners, Descenders, Ascenders, Slings, Ropes, Pulleys)</b>
1400 - 1500	<b>Mechanical Advantage Systems</b>
1500 - 1515	Break
1515 - 1620	<b>Anchorage Points</b>
1620 - 1630	<b>Recap</b>
1630	End of Day One

**Day 2**

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

**Day 3**

0730 - 0830	<b>Ventilating Confined Space</b>
0830 - 0930	<b>Descending</b>
0930 - 0945	Break
0945 - 1130	<b>Belaying</b>
1130 - 1230	<b>Stretchers</b>
1230 - 1330	Lunch
1330 - 1500	<b>Anchor Selection</b>
1500 - 1515	Break
1515 - 1620	<b>Raising /Haulage Systems</b>
1620 - 1630	<b>Recap</b>
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	<i>Practical Session</i>
0830 – 0930	<i>Practical Session (cont'd)</i>
0930 – 0945	<i>Break</i>
0945 – 1045	<i>Practical Session (cont'd)</i>
1045 – 1145	<i>Practical Session (cont'd)</i>
1145 – 1230	<i>Practical Session (cont'd)</i>
1230 - 1330	<i>Lunch</i>
1330 – 1430	<i>Practical Session (cont'd)</i>
1430 - 1500	<i>Practical Session (cont'd)</i>
1500 – 1515	<i>Break</i>
1515 – 1620	<i>Practical Session (cont'd)</i>
1620 – 1630	<b>Recap</b>
1630	<i>End of Day Four</i>

**Day 5**

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





**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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