

## COURSE OVERVIEW HE0382 Power Winch Operator

### Course Title

Power Winch Operator

### Course Date/Venue

Session 1: January 19-23, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Session 2: July 21-25, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE



### Course Reference

HE0382

### 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 Power Winch Operation. It covers the types of power winches including their key components, functions and basic operating principles; the safety regulations and standards; the workplace hazard identification and winch inspection and pre-operation checks; the emergency procedures and the basics of load dynamics; the types of ropes and cables, load attachment and anchoring techniques; and the operating controls and functions, lifting and lowering loads safely and communication and hand signals.

During this interactive course, participants will learn the advanced rigging techniques, winch calibration, drum tension adjustment and customizing controls for specific tasks; the mechanical problems, electrical faults, overheating issues and diagnosing and replacing damaged cables; the environmental and weather considerations and specialized applications; the regular maintenance, cleaning and lubricating components, checking wear and tear on gears and brakes and recording maintenance activities; the best practices for handling and storing ropes including replacement schedules for ropes and cables; inspecting motors and power sources, maintaining hydraulic fluid levels, detecting electrical short circuits and repairing minor electrical faults; and the regulatory compliance, environmental impact and sustainability.

## Course Objectives

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

- Get certified as a “*Certified Power Winch Operator*”
- Identify the types of power winches including their key components, functions and basic operating principles
- Discuss the safety regulations and standards as well as apply workplace hazard identification and winch inspection and pre-operation checks
- Employ emergency procedures and discuss the basics of load dynamics
- Recognize the types of ropes and cables and apply load attachment and anchoring techniques
- Determine operating controls and functions, lifting and lowering loads safely and communication and hand signals
- Employ advanced rigging techniques, winch calibration, drum tension adjustment and customizing controls for specific tasks
- Identify mechanical problems, detect electrical faults, address overheating issues and diagnose and replace damaged cables
- Recognize environmental and weather considerations and specialized applications
- Implement regular maintenance, clean and lubricate components, check wear and tear on gears and brakes and record maintenance activities
- Apply best practices for handling and storing ropes including replacement schedules for ropes and cables
- Inspect motors and power sources, maintain hydraulic fluid levels, detect electrical short circuits and repair minor electrical faults
- Discuss regulatory compliance, environmental impact and sustainability

## 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 a basic overview of all significant aspects and considerations of power winch operation for construction workers, maritime and shipping personnel, crane operators, loggers or forestry workers, riggers and heavy equipment operators, mining and oilfield workers, emergency response and rescue teams, safety inspectors or supervisors and other technical staff.

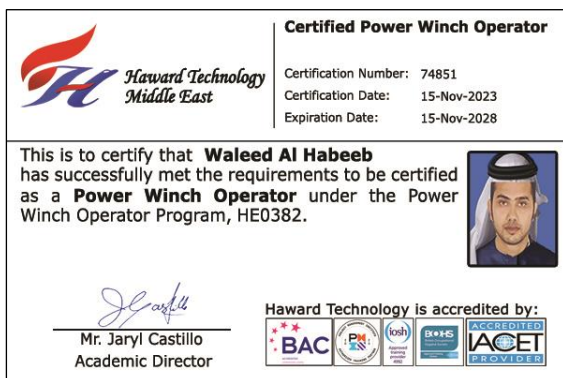
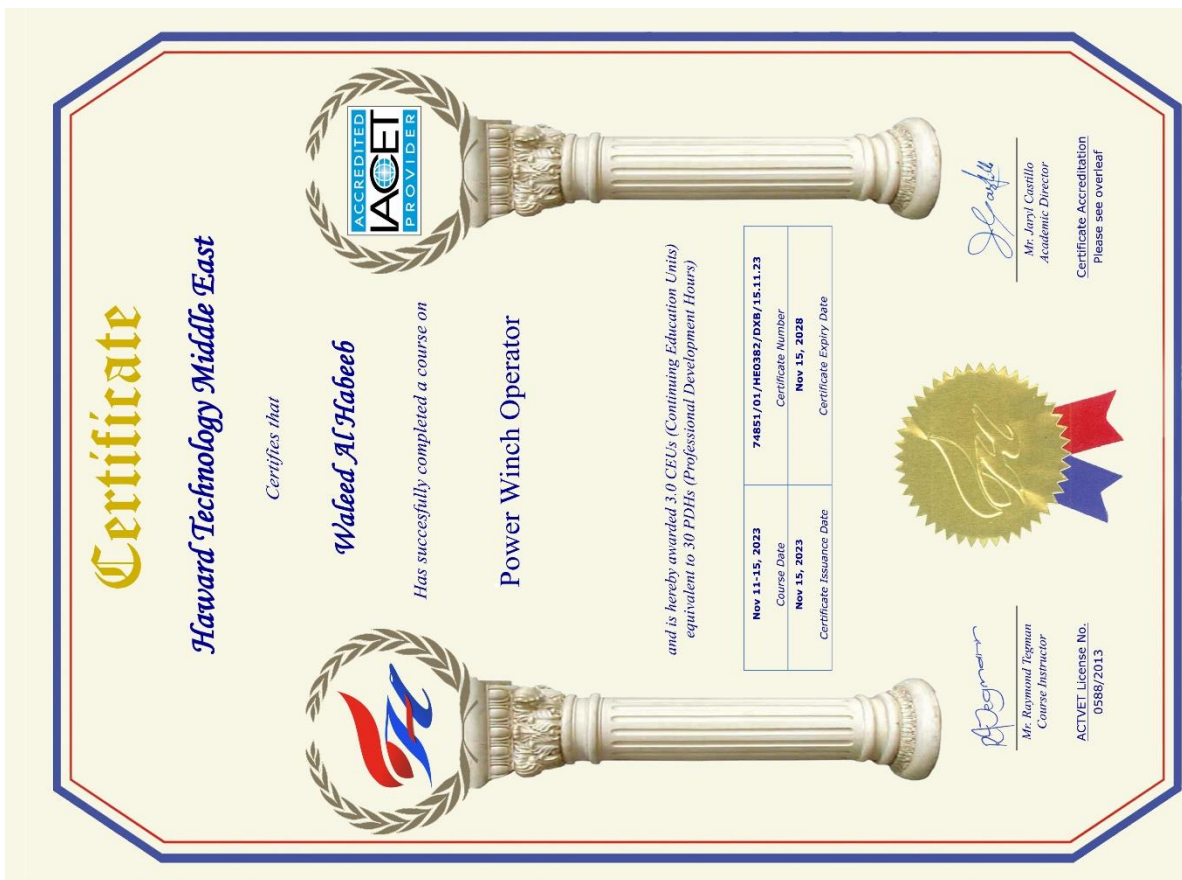
**Course Certificate(s)**

(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 as a “Certified Power Winch Operator”. 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)



### CEU Official Transcript of Records

**TOR Issuance Date:** 15-Nov-23

**HTME No.** 74851

**Participant Name:** Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0382	Power Winch Operator	November 11-15, 2023	30	3.0

**Total No. of CEU's Earned as of TOR Issuance Date** **3.0**

**TRUE COPY**



Jaryl Castillo  
Academic Director

Haward Technology has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2018 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 1-2018 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 | E-mail: info@haward.org | Website: www.haward.org


\* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \* CEUs \* Haward Technology \*

## 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.

## 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.

## 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. 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, HSE 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	<i>Registration &amp; Coffee</i>
0800 – 0815	<i>Welcome &amp; Introduction</i>
0815 – 0830	<b>PRE-TEST</b>
0830 – 0930	<b>Understanding Power Winches</b> <i>Definition &amp; Purpose of Power Winches • Types of Power Winches (Manual, Electric, • Hydraulic) Key Components &amp; their Functions • Industry Applications of Power Winches</i>
0930 – 0945	<i>Break</i>
0945 – 1030	<b>Basic Operating Principles</b> <i>How a Winch Works: Mechanics &amp; Electricity • Load Capacity &amp; Ratings (SWL, WLL) • Motor &amp; Drum Functionality • Role of Wire Ropes &amp; Chains in Operations</i>
1030 - 1230	<b>Safety Regulations &amp; Standards</b> <i>Importance of Safety in Winch Operations • OSHA &amp; ISO Standards for Lifting &amp; Hoisting Equipment • PPE (Personal Protective Equipment) Requirements • General Do's &amp; Don'ts for Winch Operation</i>
1230 - 1245	<i>Break</i>
1245 – 1335	<b>Workplace Hazard Identification</b> <i>Common Risks Associated with Winches (Mechanical, Electrical, Environmental) • Identifying Unsafe Equipment Conditions • Load Movement Risks (e.g., Load Swing, Snapping Lines) • Hazard Mitigation Strategies</i>
1335 - 1420	<b>Winch Inspection &amp; Pre-Operation Checks</b> <i>Checking Structural Integrity of the Winch • Inspecting Wire Ropes, Drums, &amp; Hooks • Testing Controls &amp; Brakes • Daily &amp; Periodic Maintenance Schedules</i>
1420 – 1430	<b>Recap</b> <i>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</i>
1430	<i>Lunch &amp; End of Day One</i>

#### **Day 2**

0730 – 0830	<b>Emergency Procedures</b> <i>What to Do in Case of Equipment Failure • Load Release Procedures • Evacuation Protocols in Emergency Situations • Communication During Emergencies</i>
0830 - 0930	<b>Basics of Load Dynamics</b> <i>Understanding Load Weight &amp; Center of Gravity • Effects of Incline &amp; Friction on Load Movement • Calculating Pulling Force &amp; Tension • Balancing Loads for Safe Hoisting</i>
0930 – 0945	<i>Break</i>
0945 – 1030	<b>Types of Ropes &amp; Cables</b> <i>Material Types (Steel, Synthetic, Fiber Ropes) • Advantages &amp; Limitations of Each Type • Proper Selection of Ropes for Various Tasks • Splicing &amp; Replacing Ropes</i>

1030 - 1230	<b>Load Attachment &amp; Anchoring Techniques</b> Using Slings, Hooks, & Shackles • Secure Anchoring of Winches • Identifying Proper Attachment Points • Preventing Load Slipping or Detachment
1230 - 1245	Break
1245 - 1420	<b>Operating Controls &amp; Functions</b> Understanding Control Panels & Switches • Brake Operation (Manual & Automatic) • Emergency Stop Mechanisms • Speed & Tension Adjustments
1420 - 1430	<b>Recap</b> 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 - 0830	<b>Lifting &amp; Lowering Loads Safely</b> Step-By-Step Lifting Procedures • Managing Load Stability During Movement • Controlled Lowering Techniques • Avoiding Sudden Starts & Stops
0830 - 0930	<b>Communication &amp; Hand Signals</b> Importance of Clear Communication in Lifting Operations • Standardized Hand Signals for Crane & Winch Operators • Using Radios & Other Communication Tools • Coordinating with Team Members Effectively
0930 - 0945	Break
0945 - 1030	<b>Advanced Rigging Techniques</b> Rigging Hardware (Snatch Blocks, Pulleys) • Multi-Line Systems for Heavy Loads • Setting Up Mechanical Advantages • Preventing Rigging Failures
1030 - 1230	<b>Winch Calibration &amp; Settings</b> Calibrating Load Limiters • Adjusting Drum Tension • Customizing Controls for Specific Tasks • Importance of Regular Calibration Checks
1230 - 1245	Break
1245 - 1420	<b>Troubleshooting Common Issues</b> Identifying Mechanical Problems (e.g., Gear Malfunctions) • Detecting Electrical Faults • Addressing Overheating Issues • Diagnosing & Replacing Damaged Cables
1420 - 1430	<b>Recap</b> 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 - 0830	<b>Environmental &amp; Weather Considerations</b> Operating Winches in Wet, Cold, or Windy Conditions • Ensuring Stability on Uneven Surfaces • Dealing with Frozen or Rusted Components • Safety Measures During Storms or Extreme Weather
0830 - 0930	<b>Specialized Applications</b> Marine Winch Operations • Construction Site Hoisting • Forestry & Logging Applications • Oilfield & Mining Operations
0930 - 0945	Break
0945 - 1030	<b>Practice Session: Rigging &amp; Hoisting</b> Hands-On Practice with Rigging Setups • Simulated Lifting & Lowering Tasks • Identifying & Correcting Mistakes • Group Feedback & Analysis



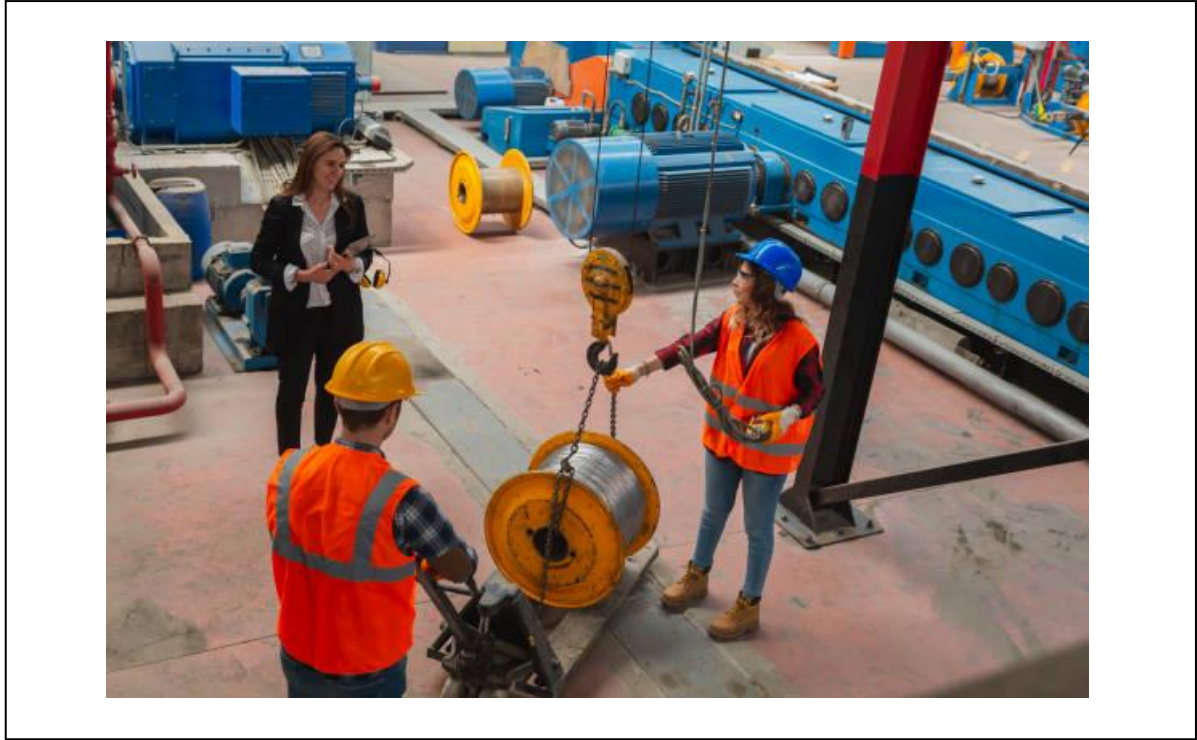
1030 - 1230	<b>Preventive Maintenance Basics</b> <i>Importance of Regular Maintenance • Cleaning &amp; Lubrication of Components • Checking Wear &amp; Tear on Gears &amp; Brakes • Recording Maintenance Activities</i>
1230 - 1245	<i>Break</i>
1245 - 1420	<b>Rope &amp; Cable Care</b> <i>Best Practices for Handling &amp; Storing Ropes • Identifying Signs of Wear (Kinks, Fraying) • Proper Spooling on the Drum • Replacement Schedules for Ropes &amp; Cables</i>
1420 - 1430	<b>Recap</b> <i>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</i>
1430	<i>Lunch &amp; End of Day Four</i>

**Day 5**

0730 - 0830	<b>Electrical &amp; Hydraulic System Checks</b> <i>Inspecting Motors &amp; Power Sources • Maintaining Hydraulic Fluid Levels • Detecting Electrical Short Circuits • Repairing Minor Electrical Faults</i>
0830 - 0930	<b>Compliance with Regulations</b> <i>Equipment Certification Requirements • Ensuring Proper Documentation • Inspection Checklists for Regulatory Compliance • Fines &amp; Penalties for Non-Compliance</i>
0930 - 0945	<i>Break</i>
0945 - 1100	<b>Environmental Impact &amp; Sustainability</b> <i>Minimizing Environmental Damage During Operations • Using Eco-Friendly Lubricants &amp; Fuels • Recycling Old Components • Adhering to Environmental Laws &amp; Standards</i>
1130 - 1215	<b>Practical Session: Maintenance Tasks</b> <i>Hands-On Winch Inspection &amp; Lubrication • Rope Splicing &amp; Repair Exercise • Troubleshooting Faulty Components • Group Assessment of Maintenance Practices</i>
1215 - 1230	<i>Break</i>
1230 - 1300	<b>Practical Skill Assessment</b> <i>Inspection of Equipment Before Operation • Proper Rigging &amp; Load Attachment • Safe Operation of the Winch During Lifting Tasks • Troubleshooting Equipment Malfunctions</i>
1300 - 1315	<b>Course Conclusion</b> <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1315 - 1415	<b>COMPETENCY EXAM</b>
1415 - 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch &amp; End of Course</i>

### **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](mailto:mari1@haward.org)