



COURSE OVERVIEW EE0452 **HV Switching**

Course Title
HV Switching

Course Date/Venue

October 18-22, 2026/Markab Meeting Room, Al Bandar Rotan – Creek, Dubai, UAE

Course Reference
EE0452

Course Date/Venue

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes various practical sessions where participants will be engaged in HV/LV power switching and other working practices.

This course is designed to provide participants with a detailed and up-to-date overview of HV/MV Switching & Switchgear Operation, Safety & Maintenance Including Marine 6.6 kV Systems. It covers the legislation and standards of high voltage switching operations; the risk management and control as well as the proper approach to high voltage-safe systems of work, permit types and permit procedures; operating local high voltage and low voltage switchgear; developing high voltage switchgear program; controlling permit to work operations; performing switching to a switching program; coordinating and directing switching program; and working safely near live electrical apparatus.



During this interactive course, participants will learn the access procedures to work on or near electrical network infrastructure; the HV field switching operation and power system substation switching operation to a given schedule; developing high voltage switching schedule; coordinating power systems permit procedures; directing power system switching schedules; and solving the energy supply network equipment problems in a professional manner.

Course Objectives/Outcomes & Benefits for the Participants

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

- Get certified as a “*Certified Switchman*”
- Review the legislation and standards of high and medium voltage switching operations
- Carryout risk management and control as well as the proper approach to high and medium voltage-safe systems of work, permit types and permit procedures
- Operate high voltage, discuss MV marine 6.6 kV switchgear systems and develop high voltage switchgear program
- Apply control permit to work operations, perform switching to a switching program as well as coordinate and direct switching program
- Work safely near live electrical apparatus
- Apply access procedures to work on or near electrical network infrastructure
- Perform HV field switching operation and power system substation switching operation to a given schedule
- Develop high voltage switching schedule and coordinate power systems permit procedures and direct power system switching schedules
- Solve energy supply network equipment problems in a professional manner

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 an overview of all significant aspects and considerations of HV/MV switching and switchgear operation, safety and maintenance including marine 6.6 kV systems for electrical workers and engineers working with high and low voltage switchgear in industrial facilities and networks.

Training Methodology

Our courses employ an interactive, learner-centred methodology that integrates theoretical knowledge with practical application. The training is delivered through a suitable combination of some or all of the following methods, selected according to the course content and learning objectives:

- Instructor-led presentations and facilitated discussions
- Practical workshops and participant presentations
- Hands-on exercises and real-world case studies
- Equipment demonstrations and technical drawings
- Hardware- and software-based simulations
- Gamification & Role Play in soft-skills courses only
- Virtual Reality (VR) and Augmented Reality (AR)
- Instructional videos and other relevant training resources

This blended approach encourages active participation, strengthens practical skills and supports the effective application of acquired knowledge in the workplace.



Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

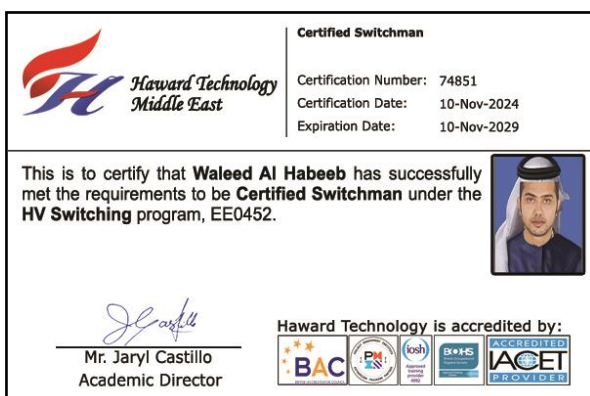
Course Certificate(s)

- (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 Switchman". 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.

Logos of the British Accreditation Council (BAC), the Project Management Qualification (PMQ) Institute, the Institution of Occupational Safety and Health (IOSH), and the American Welding Society (AWS).



Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

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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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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.
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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 **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. Sherif Bayoumi, BSc, is a **Senior Electrical Engineer** with over **30 years** of extensive experience within **Oil, Gas, Petrochemical** and **Power** industries. His expertise widely covers **Electrical Systematics Troubleshooting, Electrical Distribution Systems & Control Circuits**, Electrical Parameters, Maintenance of Electrical **Switchgear & Overhead Lines, Switchgear and Transformers, HV Switchgear Operation & Maintenance, Distribution Switchgear & Equipment, Symmetrical & Unsymmetrical Faults, Electrical Drawings, Relay**

Logic Circuits, Test Requirements, Component Testing Procedures, Electrical & Control System, Troubleshooting **Transformers, Equipment Troubleshooting, System Grounding, Circuit Breakers, Protection Devices & Technology, Protection Relay, Solid State Relay**, Instrument **Transformers**, Grading & Protection Coordination, Electrical System & Equipment, **Generators, Gas Turbine, Diesel Generators, Power Transformers, AC & DC Motors, Substations, Switchgears & Distribution, Power System Analysis, Electrical Equipment Control Systems, Cables & Domestic Wiring, Overhead Transmission Lines, Electrical Safety, Electrical Protection, Batteries, Chargers & UPS**, Electrical Projects Handling, Electrical Measurements, Medium Voltage Switchgears (MVSG), Motor Control Centers (**MCC**), **Electrical Submersible Pumps (ESP)**. He is also well-versed in **Preventive Maintenance**, Health, Safety & Environmental Management System (**HSEMS**), On-Shore & Off-Shore Electrical Installations, Engineering Studies, Water Desalination Units, **Induction Motors, Power Supply Substations**, Electro-mechanical Protection **Relays, Engineering Drawings, Industrial Power System Coordination, Machinery Vibration, Dynamic Balancing Analysis**, Material & Equipment Standard & Code System, Hazardous Area Classification, Safety Management System, Emergency Response, Permit to Work & Issuing Authority, Defensive Driving and Task Risk Assessment.

During Mr. Sherif's career life, he has occupied various key positions in several companies such as the **Electrical Maintenance Engineer, Senior Electrical Support Engineer, Lead Maintenance Electrical Engineer, Maintenance Electrical Engineer, Specialist Electrical Engineer** in **Abu Dhabi Company for Onshore Oil Operations (ADCO)**, Gulf of Suez Petroleum Company (**GUPCO**) and West Desert Petroleum Company (**WEPCO**).

Mr. Sherif has a **Bachelor's** degree in **Electrical Power Engineering**. Further, he is a **Certified Instructor/Trainer** and has delivered numerous courses, trainings, workshops, seminars 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 workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Sunday, 18th of October 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Legislation & Standards
0930 – 0945	Break
0945 – 1030	Risk Management & Control
1030 – 1130	Approach to High & Medium Voltage – Safe Systems of Work, Permit Types & Permit Procedures
1130 – 1215	HV Switchgear
1215 – 1230	Break
1230 – 1330	MV Marine 6.6 kV Switchgear System
1330 – 1420	Develop HV Switchgear Program
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2: Monday, 19th of October 2026

0730 – 0830	Control Permit to Work Operations
0830 – 0930	Perform Switching to a Switching Program
0930 – 0945	Break
0945 – 1100	Coordinate & Direct Switching Program
1100 – 1215	Working Safely near Live Electrical Apparatus
1215 – 1230	Break
1230 – 1330	Apply Access Procedures to Work on or Near Electrical Network Infrastructure
1330 – 1420	Perform HV Field Switching Operation to a Given Schedule
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 20th of October 2026

0730 – 0830	Perform Power System Substation Switching Operation to a Given Schedule
0830 – 0930	Develop High Voltage Switching Schedule
0930 – 0945	Break
0945 – 1100	Coordinate Power Systems Permit Procedures
1100 – 1215	Coordinate & Direct Power System Switching Schedules
1215 – 1230	Break
1230 – 1420	Solve Problems in Energy Supply Network Equipment
1420 – 1430	Recap
1430	Lunch & End of Day Three



Day 4: Wednesday, 21st of October 2026

0730 – 0830	Practical Sessions <i>Switching Programs</i>
0830 – 0930	Practical Sessions (cont'd) <i>Isolation Certificates</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Practical Sessions (cont'd) <i>Electrical Permit to Work</i>
1100 – 1215	Practical Sessions (cont'd) <i>Danger Notices & Pre-Cautions</i>
1215 – 1230	<i>Break</i>
1230 – 1330	Practical Sessions (cont'd) <i>Sanction for Test</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day Four</i>

Day 5: Thursday, 22nd of October 2026

0730 – 0930	Practical Sessions (cont'd) <i>Log-Out & Tag-Out</i>
0930 – 0945	<i>Break</i>
0945 – 1100	Practical Sessions (cont'd) <i>Safe Key Systems</i>
1100 – 1200	Practical Sessions (cont'd) <i>Electrical Safety Systems- Interlocks-Earthing-Isolation & Access Control</i>
1200 – 1215	<i>Break</i>
1215 – 1245	Practical Sessions (cont'd) <i>Fault Reports</i>
1245 – 1300	Course Conclusion <i>Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course</i>
1300 – 1400	COMPETENCY EXAM
1400 – 1415	<i>Evaluation of Competency Exam</i>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

This practical and highly-interactive course includes the following practical sessions using Haward's HV Switchgears:-



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|-----------------------------------|--|
| (1) Switching Programs | (6) Lock-Out & Tag-Out |
| (2) Isolation Certificates | (7) Safe Key Systems |
| (3) Electrical Permit to Work | (8) Electrical Safety Systems-Interlocks-Earthing-Isolation & Access Control |
| (4) Danger Notices & Pre-Cautions | (9) Fault Reports |
| (5) Sanction for Test | |

Course Coordinator

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