

COURSE OVERVIEW EE0434-2D
Certified 11KV Electrical Safety

Course Title

Certified 11KV Electrical Safety

Course Reference

EE0434-2D

Course Duration/Credits

Two days/1.2 CEUs/12 PDHs



Course Date/Venue

Session(s)	Date	Venue
1	February 05-06, 2024	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
2	May 06-07, 2024	Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
3	August 05-06, 2024	Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA
4	November 04-05, 2024	Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey

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 in order to certify participants on 11KV safety rules and regulations. It covers electrical networks, arc and its energy, voltage, surface, causes of burns and death for 11KV. The course will discuss 11KV safety equipment and safety procedures, as well as grounding, bonding, electrical maintenance and its relationship to 11KV system. Regulatory and legal safety requirements, accident prevention, rescue, first aid, medical aspects of 11kv trauma, human factors and safety management in 11KV networks will be illustrated during the course.



Further, the course will discuss the arc and its energy as well as voltage, surface and burns; the causes of burns and deaths from 11KV; and the 11KV safety equipment and perform safety procedures and methods in a safely manner.



During this interactive course, participants will learn to identify grounding and bonding in 11KV system; recognize electrical maintenance and its relationship to 11KV system; review regulatory and legal safety requirements and apply accident prevention, rescue and first aid; and determine medical aspects of 11KV trauma, human factors in 11KV networks safety and 11KV networks safety management.

Course Objectives

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

- Get certified on 11KV electrical safety
- Discuss arc and its energy as well as voltage, surface and burns
- Identify causes of burns and deaths from 11KV
- Employ 11KV safety equipment and perform safety procedures and methods in a safely manner
- Identify grounding and bonding in 11KV system
- Recognize electrical maintenance and its relationship to 11KV system
- Review regulatory and legal safety requirements and apply accident prevention, rescue and first aid
- Determine medical aspects of 11KV trauma, human factors in 11KV networks safety and 11KV networks safety 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, sample video clips of the instructor’s actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides an overview of all significant aspects and considerations of high voltage testing (11KV) for electrical engineers, industrial and utility engineers and electricity distribution technicians (ED filter - junior staff). Supervisors or managers concerned with the safety of electrical workers will find this course especially useful in providing an insight into electrical safety.

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.

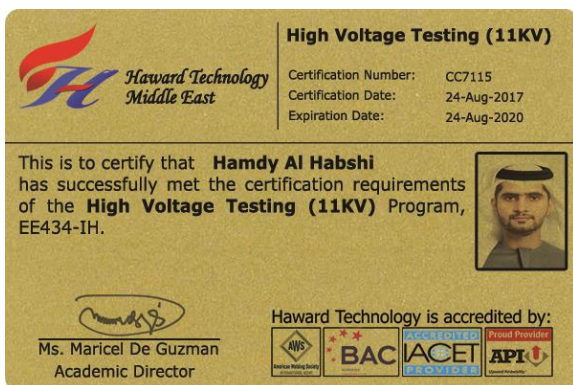
Course Certificate(s)

(1) Internationally recognized Wall Competency Certificates and Plastic Wallet Card Certificates 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 to work on 11 KV electrical power systems. 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

Page 1 of 1

CEU Official Transcript of Records

TOR Issuance Date: 24-Aug-17

HTME No. PAR11317

Participant Name: Hamdy Al Habshi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
EE434-IH	High Voltage Testing (11KV)	August 20-24, 2017	27.5	2.75
Total No. of CEU's Earned as of TOR Issuance Date				2.75

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

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

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 **1.2 CEUs** (Continuing Education Units) or **12 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.



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. Roger Kunen is a **Senior Electrical & Instrumentation Engineer** with over **40 years** of extensive experience within the **Oil & Gas, Petrochemical** and **Power** industries specializing in **HV/MV Cable Splicing, Jointing, Inspection & Termination, Power Cable Standard & Testing, Cable Laying, Insulated Power Cables, HV Cable Design, LACT Metering, Programmable Logic Controller (PLC), Distributed Control System (DCS), Supervisory Control and Data Acquisition (SCADA) Systems, Safety**

Instrumented Systems (SIS), Foundation Fieldbus Essentials, Delta-V Process Control, Electrical Master Code Applied Theory, Pneumatics & Hydraulics, Solar PV Installations, Fire Detection & Alarm Systems, Power System Dispatcher, HP Digital Radio & Oscilloscope, Switching & Isolation, Control System Voltage, Energy Dispatch Function, Hydro Plants Control, Micro-wave Radio, Auxiliary Equipment, Voice & Data Communication Circuits & System, High Voltage Electrical Safety, LV & HV Electrical System, HV Switchgear Operation & Maintenance, LV Distribution Switchgear & Equipment, Electrical Safety Compliance, Overhead Power Line Maintenance Patrolling & Washing, Energy Transmission & Distribution, Transmission Line Structures, High Voltage Applications, Transmission Line Parameters, Sag & Tension of Conductor, Geomagnetic Disturbances, Lock & Tag Out, Circuit Breakers & Switchgears, Portable Cables, Transformers, Surge Arrestors, Isolators & Fuses, Capacitor Banks, Earth & Shunt Reactors, Gas Insulated Substations (GIS), HV Substation Inspection & Reporting, HV Electrical System Commissioning, HV Equipments Inspection & Maintenance, UPS & Generators, Electrical Installations Design & Construction, Electrical Mechanical Installations, GIS Substations, GE Turbine Power Plant and Steam Power Plants.

During his career life, Mr. Kunen has gained his expertise and thorough practical experience through handling challenging positions such as being the **Electrical & Instrumentation Superintendent, Instrumentation & Control Specialist, Instrumentation Assessor, Electrical & Instrumentation Instructor, Electrical Apprenticeship Instructor, Learning Coordinator, Electrical Engineer, Control & Instrumentation Engineer** and **Project Manager** for various multi-national companies and institutes like the Woodgroup PSN, ESSO, Qatar Petroleum, SAIT Polytechnic and Trans-Alta Utilities, just to name a few.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



Course Fee

Dubai	US\$ 2,750 per Delegate + VAT . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Abu Dhabi	US\$ 2,750 per Delegate + VAT . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Al Khobar	US\$ 2,750 per Delegate + VAT . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Istanbul	US\$ 3,000 per Delegate + VAT . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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

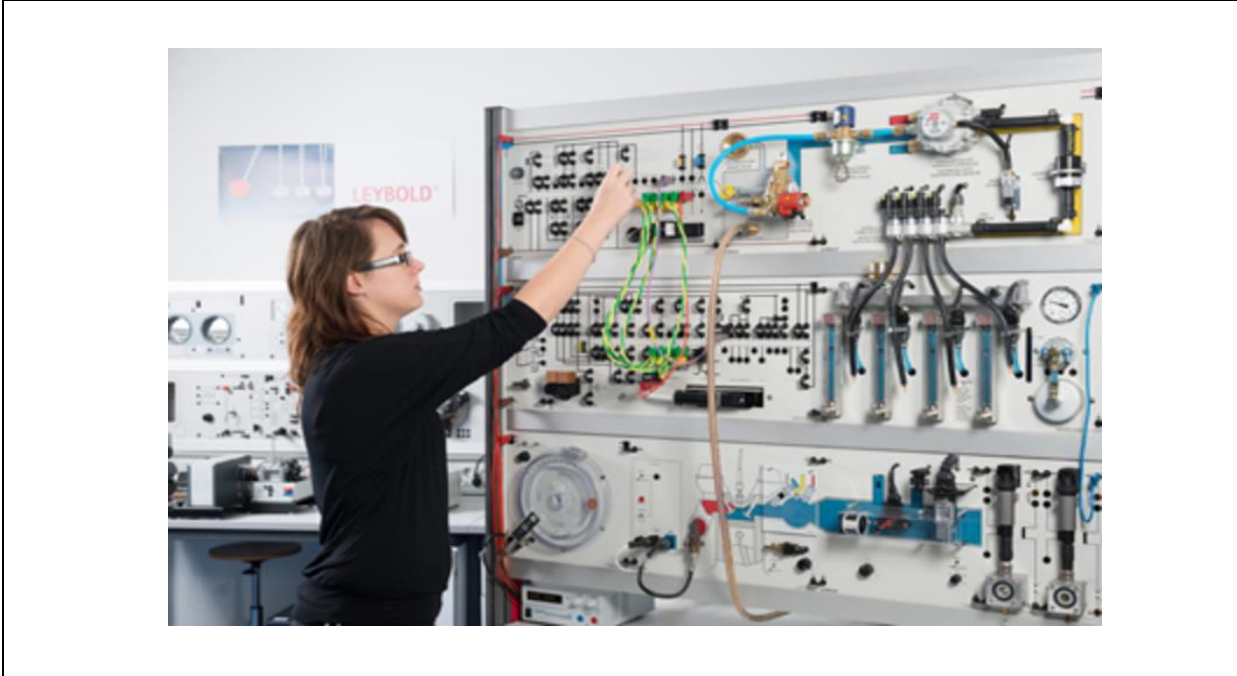
0730 – 0800	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0900	<i>Get to Know Your Network</i>
0900 – 0930	<i>Arc & Its Energy, Voltage, Surface & Burns</i>
0930 - 0945	<i>Break</i>
0945 – 1100	<i>Causes of Burns & Deaths from 11KV</i>
1100 – 1215	<i>11KV Safety Equipment</i>
1215 – 1230	<i>Break</i>
1230 – 1330	<i>11KV Safety Procedures & Methods</i>
1330 - 1420	<i>Grounding & Bonding in 11KV System</i>
1420 – 1430	<i>Recap</i>
1430	<i>Lunch & End of Day One</i>

Day 2

0730 – 0800	<i>Electrical Maintenance & Its Relationship to 11KV System</i>
0800 – 0830	<i>Regulatory & Legal Safety Requirements</i>
0830 - 0930	<i>11KV Accident Prevention, Rescue & First Aid</i>
0930 – 0945	<i>Break</i>
0945 – 1030	<i>Medical Aspects of 11KV Trauma</i>
1030 – 1215	<i>Human Factors in 11KV Networks Safety</i>
1215 – 1230	<i>Break</i>
1230 – 1300	<i>Safety Management in 11KV Networks</i>
1300 – 1315	<i>Course Conclusion</i>
1315 – 1415	COMPETENCY EXAM
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

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



Course Coordinator

Kamel Ghanem, Tel: +971 2 30 91 714, Email: kamel@haward.org