

COURSE OVERVIEW EE0399-2D
Certified HV Electrical Safety Refresher Course

Course Title

Certified HV Electrical Safety Refresher Course

Course Date/Venue

December 08-09, 2024/Club B Meeting Room,
 Ramada Plaza by Wyndham Istanbul City Center,
 Istanbul, Turkey

Course Reference

EE0399-2D

Course Duration/Credits

Two days/1.2 CEUs/12 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.

High voltage electrical systems require the special application of maintenance, repair, test, and safety procedures. Personnel must be trained in special precautions to ensure both personnel and workplace safety. IEC specifies essential requirements regarding protection against electric shock of persons and livestock. It deals also with the application and co-ordination of these requirements in relation to external influences, give also the various limits of the effects of 50 Hz alternating current on humans and define 4 main risk zones, and IEC application to residual current operated circuit-breakers functionally independent of, or functionally dependent on, line voltage.



OSHA requires training for all qualified employees performing operations or maintenance work, or who have access to electrical power generation, transmission and distribution installations as well as HSE personnel who are in charge of the safety and health of the employees, public and facilities.



Various IEC, OSHA, IEEE, European and NFPA safety procedures are reviewed. In this interactive course, group exercises include the development of safe-work protocols, use of lockout/tagout (LOTO), maintenance task rehearsal, and equipment preparation. Calculations of fault current, arc-flash hazards, and proper PPE selection are studied. Other technical topics covered include insulation testing (IR/PI/DAR/DD), four-wire Kelvin low-resistance testing, corona detection by ultrasonic and RF detectors, and signature analysis using an infrared imager.

This course is designed to provide participants with a detailed and an up-to-date overview of HV electrical safety. It covers the HV equipment; testing and commissioning; the electrical hazards and safety management; the de-energized and energized work; and the confined space and personnel protection.

Course Objectives

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

- Get certified on HV electrical safety
- Discuss HV equipment as well as carryout testing and commissioning
- Identify electrical hazards and employ safety management
- Review de-energized and energized work
- Apply confined space and personnel protection

Who Should Attend

This course provides an overview of all significant aspects and considerations of certified HV electrical safety refresher course.

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\$ 3,250 per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), 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 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 to work on high voltage electrical power systems. Certificates are valid for 5 years.

Recertification Fee is a 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

CEUs

TOR Issuance Date:

14-Nov-21

HTME No.

3558-6717-5364-9527

Participant Name:

Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
EE0399-2D	Certified HV Electrical Safety Refresher Course	13 Nov-14 Nov, 2021	12	1.2

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

1.2

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), 2201 Cooperative Way, Suite 600, Hemdon, VA 20171, 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



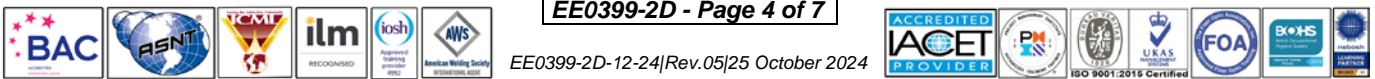








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Certificate Accreditations


Certificates are accredited by the following international accreditation organizations:-

- 
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.

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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.

Course Instructor

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:



Dr. Hassan Ibrahim, PhD, MSc, BSc, is a Senior Electrical & Instrumentation Engineer with over 25 years of extensive industrial experience. He specializes in Pipeline Flowmetering, Fluid Mechanics of Pipe Flows, Ultrasonic Flowmeters, Flow Measurement Devices, Electrical Installations & Utilities, Fixed Installations, Equipment & Appliances, Inspection & Test of Fixed Installations, Monitoring & Recording of Data for Consumer Utilities, HV/MV Cable Splicing, Jointing & Termination; LV/MV/HV; Power Cabling; Micro Electromechanical Systems (MEMS); Load Calculations; Electrical Engineering Design, Installation, Maintenance, Troubleshooting, Inspection & Testing; Engineering Drawings, Codes & Diagrams; Power System Protective Relay; Power Generation; Transformers; Lighting System, Earthing & Grounding; Electrical Circuits; Switchgear & Circuit Breakers; CCTV; AutoCAD; DCS, PLC, SCADA, Instrumentation & Control, Control Valves & Actuators; Power Electronics; Metering Pumps; Flow Metering & Custody Measurement; Pneumatic Systems and Fire & Gas Detection Systems. Further, he is also well-versed in UPS and Battery Systems, Protection Gears, ETAP, System Analysis & Design, Energy Saving Techniques, Rational Use of Energy, Green Houses, Software, Hardware, Modeling, Simulation & Design, Renewable Energy Technologies, Solar PV and Thermal Solar. Currently, he is the Technical Professor for various Academic organizations like the Arab Academy for Science & Technology and Maritime Transport, ARADO, ACTS, PROJACS, ITCC and AlexPetro Technical Service.

During his career life, Dr. Ibrahim has been actively involved in rigorous Teaching and Consulting jobs in the **USA and Middle East**. He has been the **Professor, Associate Professor, Teaching Assistant, Lecturer/Trainer, Consultant, Academic Advisor, Author, Head of Graduate Projects, Technical Consultant and Research & Teaching Assistant** of various international and academic institutions and companies. He has been the **Project Engineer** as well of **Textron Automotive Industry, USA** where he was responsible for the speed and position control for a virtual vehicle simulation system and testing the electronic circuits and overall system.

Dr. Ibrahim is a Registered Professional Engineer and a Registered Professional Consultant Engineer and has a PhD in Systems Engineering from the Oakland University (USA), a Master's degree in Electrical Power & Machines Engineering and a Bachelor's degree in Power & Electrical Machines Engineering. Further, he is a Certified Instructor/Trainer and a Certified Internal Verifier/Trainer/Assessor by the Institute of Leadership & Management (ILM). He has supervised various electrical and instrumentation graduate projects and master thesis, published numerous papers and delivered innumerable trainings, courses, workshops and seminars worldwide.

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: Sunday, 08th of December 2024

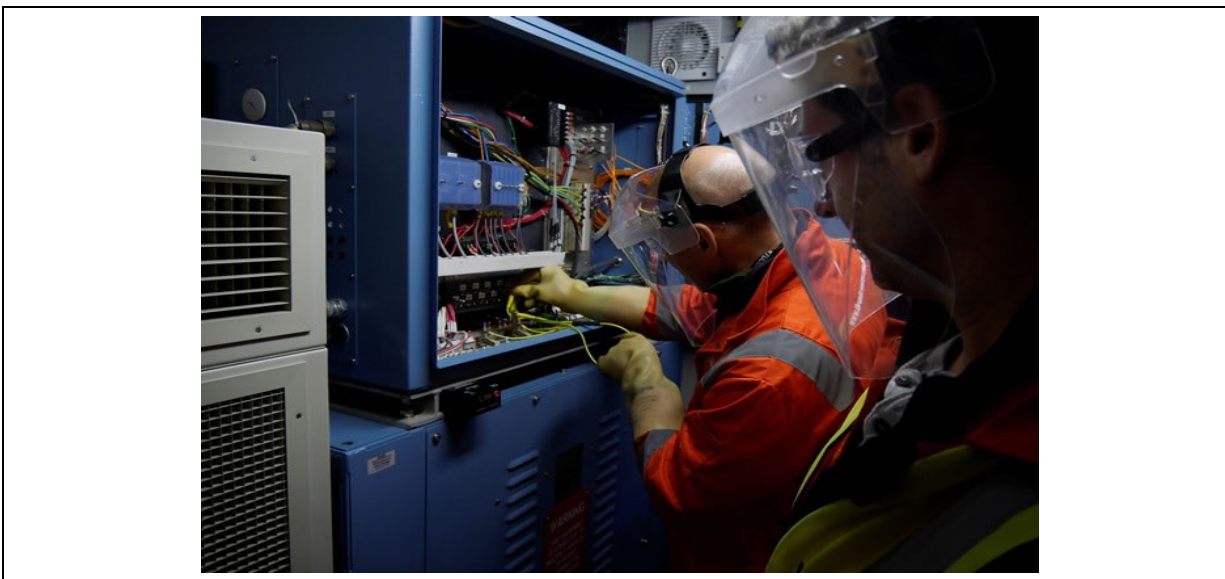
0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	HV Equipment
0930 – 0945	Break
0945 – 1100	Testing & Commissioning
1100 – 1230	Electrical Hazards
1230 – 1245	Break
1245 – 1420	Safety Management
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2: Monday, 09th of December 2024

0730 – 0930	De-Energized Work
0930 – 0945	Break
0945 – 1100	Energized Work
1100 – 1215	Confined Space
1215 – 1230	Break
1230 – 1245	Personnel Protection
1245 – 1300	Course Conclusion
1300 – 1400	COMPETENCY EXAM
1400 – 1415	Evaluation of Competency Exam
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

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