## COURSE OVERVIEW EE0633(KM1)

# Certified High Voltage Safety

**Course Title**
Certified High Voltage Safety


**Course Date/Venue**
July 13-17, 2025/Slaysel 02 Meeting Room, Movenpick Hotel & Resort Al Bida'a Kuwait, City of Kuwait

3.0 CEUs (30 PDHs) AWARD

**Course Reference**
EE0633(KM1)

**Course Duration/Credits**
Five days/3.0 CEUs/30 PDHs

**Course Description**


***This practical and highly-interactive course includes real-life case studies 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 high voltage safety. It covers the overhead transmission and distribution line network; the safe work protocols including the use of lockout/tagout and safe equipment preparation; the general works safety, the proper use of personal protective equipment and face mask; the installation, operation and maintenance instruction manuals; and the electrical safety standards.

During this interactive course, participants will learn the HV equipment including power transformers, switches, isolators and fuses, circuit breakers, instrument transformer, surge arrestors, capacitor banks, earth and shunt reactors; the test equipment and electrical switching; the electrical and special hazards; the safety management, 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 and be authorized to work on high voltage electrical power systems
- Discuss the overview of overhead transmission and distribution line network
- Employ safe work protocols including the use of lockout/tagout as well as prepare safe equipment
- Carryout general works safety and implement the proper use of personal protective equipment and face mask
- Use installation, operation and maintenance instruction manuals
- Apply proper technology, techniques and procedures on High Voltage (HV) electrical safety
- Explain the electrical safety standards
- Describe HV equipment including power transformers, switches, isolators and fuses, circuit breakers, instrument transformer, surge arrestors, capacitor banks as well as earth and shunt reactors
- Illustrate test equipment and discuss electrical switching as well as electrical and special hazards
- Employ safety management and review de-energized and energized work
- Identify confined space and employ personnel protection

## 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 high voltage safety for engineers, high voltage fitter and other technical staff.

## 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.

## 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 and authorized to work on high voltage 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:-

Haward Technology Middle East

Certificate of Competency

This is to certify that

**Mr. Osama Al Otaibi**

of

**United Steel Company (SULB)**

has successfully completed a Course on

**Certified High Voltage Safety**

and is hereby awarded 1.95 CEUs (Continuing Education Units) equivalent to 19.5 PDHs (Professional Development Hours) for completing **19.5** contact hours, during **August 27-29, 2017;** having successfully satisfied the learning requirements of the programme; and having passed the competency exam, thereby demonstrating competence to the approval of the Course Instructor.

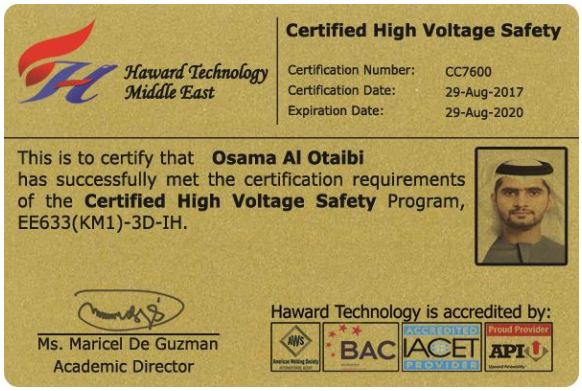
**Certificate Number** : CC7600/01/EE633(KM1)-3D-IH/BAH/29.08.17
**Date of Issuance** : 29th August 2017
**Date of Expiration** : 29th August 2020

1.95 CEUs (19.5 PDHs) AWARD

ACCREDITED IACET PROVIDER

*Dr. Mike Tay*
*Course Instructor*
ACTVET License No.
0588/2013

*Ms. Maricel De Guzman*
*Academic Director*
Certificate Accreditation
Please see overleaf



Haward Technology Middle East

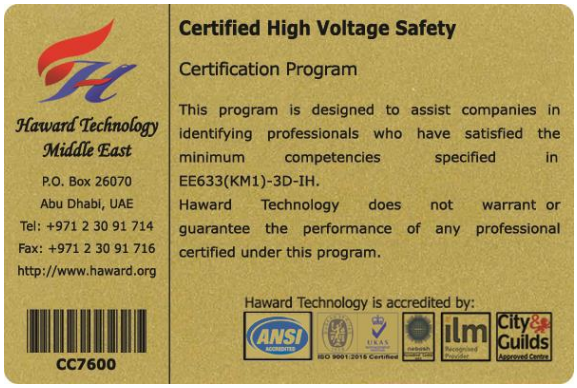
**Certified High Voltage Safety**

Certification Number: CC7600
Certification Date: 29-Aug-2017
Expiration Date: 29-Aug-2020

This is to certify that **Osama Al Otaibi** has successfully met the certification requirements of the **Certified High Voltage Safety** Program, EE633(KM1)-3D-IH.

Ms. Maricel De Guzman
Academic Director

Haward Technology is accredited by:



Haward Technology Middle East
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Abu Dhabi, UAE
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http://www.haward.org

CC7600

**Certified High Voltage Safety**

Certification Program

This program is designed to assist companies in identifying professionals who have satisfied the minimum competencies specified in EE633(KM1)-3D-IH.

Haward Technology does not warrant or guarantee the performance of any professional certified under this program.

Haward Technology is accredited by:

(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 Middle East**

Continuing Professional Development (HTME-CPD)

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## CEU Official Transcript of Records

**TOR Issuance Date:** 29-Aug-17

**HTME No.** PAR12117

**Participant Name:** Osama Al Otaibi

| Program Ref. | Program Title | Program Date | No. of Contact Hours | CEU's |
|---|---|---|---|---|
| EE633(KM1) -3D-IH | **Certified High Voltage Safety** | August 27-29, 2017 | 19.5 | 1.95 |

Total No. of CEU's Earned as of TOR Issuance Date **1.95**

**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

## 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.

## 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. Ahmed Abozeid** is a **Senior Electrical & Instrumentation Engineer** with over **30 years** of **Onshore** & **Offshore** experience within the **Oil** & **Gas** and **Power** industries. His wide expertise covers **HV Cable** Design, **Cable** Splicing & Termination, **Cable** Jointing Techniques, **High Voltage** Electrical Safety, **HV/MV Cable Splicing**, **High Voltage Circuit Breaker** Inspection & Repair, **High Voltage Power System** Safe Operation, High Voltage Safety, **High Voltage Transformers**, Safe Operation of **High Voltage & Low Voltage Power Systems**, **Electric Distribution System Equipment**, **ABB 11KV Distribution Switchgear**, **Rotork Operation & Maintenance**, **Power System Protection and Relaying**, **Electrical Motors & Variable Speed Drives**, **Motor** Speed Control, Power Electronic Converters, Control Valve, **Flowmetering & Custody Transfer**, **Meters Calibration**, Installation & Inspection, **Crude Metering & Measurement Systems**, **Flow Meter Maintenance Troubleshooting**, AC Converters Section, Electromagnetic Compatibility (**EMC**), **Motor** Failure Analysis & Testing, **Machinery** Fault Diagnosis, **Bearing** Failure Analysis **Process Control & Instrumentation**, **Process Control Measurements**, **Control System Commissioning & Start-Up**, **Control System & Monitoring**, **Power Station Control System**, **Instrumentation Devices**, **Process Control & Automation**, **PID Controller**, Distributed Control Systems (**DCS**), Programmable Logic Controllers (**PLC**), **ABB PLC & DCS System**, **Gas Analyzers**, **Simulation Testing**, **Load Flow**, **Short Circuit**, **Smart Grid**, **Vibration Sensors**, **Cable Installation & Commissioning**, **Calibration Commissioning** and **Site Filter Controller**. Further, he is also well-versed in **Fundamentals of Electricity**, **Electrical Standards**, **Electrical Power**, **PLC**, **Electrical Wiring**, Machines, **Transformers**, **Motors**, **Power Stations**, **Electro-Mechanical Systems**, **Automation & Control Systems**, **Voltage Distribution**, **Power Distribution**, **Filters**, **Automation System**, **Electrical Variable Speed Drives**, **Power Systems**, **Power Generation**, **Power Transformers**, **Diesel Generators**, **Power Stations**, **Uninterruptible Power Systems** (**UPS**), **Battery Chargers** and **AC** & **DC Transmission**. He is currently the **Project Manager** wherein he manages, plans and implements projects across different lines of business.

Mr. Ahmed worked as the **Electrical Manager**, **Electrical Power & Machine Expert**, **Electrical Process Leader**, **Team Leader**, **Electrical Team Leader**, **Technical Instructor**, and **Instructor/Trainer** from various companies such as the Lafarge Nigeria, Egyptian Cement Company, ECC Training Center, Alrajhi Construction & Building Company and Ameria Cement Company, just to name a few.

Mr. Ahmed has a **Bachelor's** degree in **Electrical Engineering**. Further, he is a **Certified Instructor/Trainer, Certified TQUK Level 3 Vocational Achievement (RQF) Assessor** and has delivered numerous trainings, seminars, courses, workshops and conferences internationally.

## 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:*** ***Sunday, 13th of July 2025***

| | |
|---|---|
| *0730 – 0800* | *Registration & Coffee* |
| *0800 – 0815* | *Welcome & Introduction* |
| *0815 – 0830* | ***PRE-TEST*** |
| *0830 – 0930* | ***Overview of Overhead Transmission & Distribution Line Network*** |
| *0930 – 0945* | *Break* |
| *0945 – 1100* | ***Safe Work Protocols*** |
| *1100 – 1230* | ***Lockout/Tagout*** |
| *1230 – 1245* | *Break* |
| *1245 – 1420* | ***Safe Equipment Preparation*** |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day One* |

***Day 2:*** ***Monday, 14th of July 2025***

| | |
|---|---|
| *0730 – 0900* | ***General Works Safety & Proper Use of Personal Protective Equipment & Face Mask*** |
| *0900 – 0915* | *Break* |
| *0915 – 1100* | ***Using Installation, Operation & Maintenance Instruction Manuals*** |
| *1100 – 1230* | ***High Voltage (HV) Electrical Safety***<br>*Proper Technology* |
| *1230 – 1245* | *Break* |
| *1245 – 1420* | ***High Voltage (HV) Electrical Safety (cont'd)***<br>*Techniques • Procedures* |
| *1420 – 1430* | ***Recap*** |
| *1430* | *Lunch & End of Day Two* |

| Day 3: | Tuesday, 15th of July 2025 |
|---|---|
| 0730 – 0930 | ***Electrical Safety Standards*** |
| 0930 - 0945 | *Break* |
| 0945 – 1100 | ***HV Equipment***<br>*Power Transformers • Switches • Isolators and Fuses • Circuit Breakers* |
| 1100 – 1215 | ***HV Equipment (cont'd)***<br>*Instrument Transformer • Surge Arrestors • Capacitor Banks • Earth And Shunt Reactors* |
| 1215 – 1230 | *Break* |
| 1245 – 1420 | ***Test Equipment*** |
| 1420 – 1430 | ***Recap*** |
| 1430 | *Lunch & End of Day Three* |

| Day 4: | Wednesday, 16th of July 2025 |
|---|---|
| 0730 – 0930 | ***Electrical Switching*** |
| 0930 - 0945 | *Break* |
| 0945 – 1100 | ***Electrical Switching (cont'd)*** |
| 1100 – 1215 | ***Electrical & Special Hazards*** |
| 1215 – 1230 | *Break* |
| 1245 – 1420 | ***Electrical & Special Hazards (cont'd)*** |
| 1420 – 1430 | ***Recap*** |
| 1430 | *Lunch & End of Day Four* |

| Day 5: | Thursday, 17th of July 2025 |
|---|---|
| 0730 – 0930 | ***Safety Management*** |
| 0930 - 0945 | *Break* |
| 0945 – 1100 | ***De-Energized & Energized Work*** |
| 1100 – 1215 | ***Confined Space*** |
| 1215 – 1230 | *Break* |
| 1230 – 1300 | ***Personnel Protection*** |
| 1300 - 1315 | ***Course Conclusion*** |
| 1315 – 1415 | ***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