

COURSE OVERVIEW EE0852
Electrical & Instrumentation Inspection (Certification)

Course Title

Electrical & Instrumentation Inspection (Certification)

Course Reference

EE0852

Course Duration/Credits

Five days/3.0 CEUs/30PDHs

Course Date/Venue

Session(s)	Date	Venue
1	January 27-31, 2025	Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
2	April 20-24, 2025	Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA
3	July 20-24, 2025	Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey
4	October 26-30, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE



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 delegates with an up-to-date overview of certified electrical and instrumentation inspector. It covers the comprehensive knowledge, general requirements inspections, electrical and instrument document, material selection, installation and safety checklist for electrical inspections; the general wiring methods and identify boxes and conduit boxes, cabinets and cutout boxes, switches and receptacles, services, feeders and branch circuits; and the grounding and bonding and identify the general electrical inspection checklists.



During this interactive course, participants will learn the commercial and industrial inspections for motors, transformers, capacitors, signs and outline lighting; the hazardous locations checklist, instrument controller, piping and instrument diagram; the fire and gas detection and ESD (emergency shutdown) procedures and telecommunication; and the Calibration and function test instrument and identify hazardous location as well as basic and regulation inspection.

Course Objectives

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

- Get certified as a “*Certified Electrical and Instrumentation Inspector*”
- Apply and gain a comprehensive knowledge on electrical and instrumentation inspection
- Recognize the general requirements inspections, electrical and instrument document, material selection, installation and safety checklist for electrical inspections
- Explain the general wiring methods and identify boxes and conduit boxes, cabinets and cutout boxes, switches and receptacles, services, feeders and branch circuits
- Describe grounding and bonding and identify the general electrical inspection checklists
- Carryout commercial and industrial inspections for motors, transformers, capacitors, signs and outline lighting
- Illustrate hazardous locations checklist, instrument controller, piping and instrument diagram
- Employ fire and gas detection and ESD (emergency shutdown) procedures and telecommunication
- Calibrate and function test instrument and identify hazardous location as well as basic and regulation inspection

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 electrical and instrumentation inspection of instruments and electrical measuring equipment for those who are involved in the field of electrical and instrumentation inspection including inspection engineers, electrical engineers, electrical inspection engineers and instrumentation engineers. Further, this course is also beneficial to those engineers who are vital participants in industrial settings and those who are familiar with electrical devices, their function and the standards of operation set by the engineering industry.

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 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. 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: -




Certified Electrical and Instrumentation Inspector

Certification Number: 8667-2014-9020-2555
 Certification Date: 14-Nov-2019
 Expiration Date: 14-Nov-2024

This is to certify that **Abdulsatar Al Otaibi** has successfully met the requirements to be certified as an **Electrical and Instrumentation Inspector** under the Electrical and Instrumentation Inspection (Certification) Program, EE0852.

Ms. Maricel De Guzman
Academic Director

Haward Technology is accredited by:




Electrical and Instrumentation Inspector

Certification Program

This program is designed to assist companies in identifying professionals who have satisfied the minimum competencies specified in EE0852. Haward Technology does not warrant or guarantee the performance of any professional certified under this program.

P.O. Box 26070
 Abu Dhabi, UAE
 Tel: +971 2 30 91 714
 Fax: +971 2 30 91 716
 Http://www.haward.org

Haward Technology is accredited by:



8667-2014-9020-2555

- (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: 14-Nov-19

HTME No. 8667-2014-9020-2555

Participant Name: Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
EE0852	Electrical and Instrumentation Inspection (Certification)	November 10-14, 2019	30	3.0
Total No. of CEU's Earned as of TOR Issuance Date				3.0

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, Herndon, 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




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 **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.

- 
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.

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. Pan Marave, PE, MSc, BEng, is a **Senior Electrical & Instrumentation Engineer** with over **40 years** of extensive experience in **Power & Water Utilities** and Other **Energy Sectors**. His expertise includes **Electrical Safety, Power System Equipment, Electrical Drawing, Transmission Networks, Substation, Cable & Over Head Line, Substation Automation Systems & Application, Distribution Networks, Circuit Breaker, HV Switchgear Maintenance, HV/LV Electrical Authorisation, Basic Electricity, Electrical & Special Hazards, Personnel Protection, HV/LV Equipment, Motor Controllers, Electrical Switching Practices, Uninterruptible Power Supply (UPS), UPS and Battery System, Preventive Maintenance of Battery Charger and UPS System, UPS, DC System & Battery Design, Operation, Maintenance & Troubleshooting, Emergency Planning, Safety Management, Safety Instrumented Systems (SIS), Safety Integrity Level (SIL), Emergency Shutdown (ESD); Electrical Installation, Maintenance & Troubleshooting, Electrical Inspection & Testing, Electrical Measurements, Power Flow Analysis of Electrical Power Systems, Electrical Fundamentals, Basic Electricity & Electrical Codes, DCS, SCADA & PLC; Measurement (Flow, Temperature, Pressure); Process Analyzers & Analytical Instrumentation; Process Control, Instrumentation & Safeguarding; Process Controller, Control Loop & Valve Tuning; Industrial Distribution Systems; Industrial Control & Control Systems, Power Systems Protection & Relaying; Earthing, Bonding, Grounding, Lightning & Surge Protection; Electric Power Substation & Systems; Electrical Engineering Principles; Motor Control Circuit; Electrical Fault Analysis; Electrical Networks & Distribution Cables; Circuit Breakers, Switchgears, Transformers, Hazardous Areas Classification and Detailed Engineering Drawings, Codes & Standards.** Furthermore, he is also well-versed in Microprocessors Structure, Lead Auditor (**ISO 9000:2000**), **ISO 9002**, Quality Assurance, and Projects & Contracts Management.

Presently, Mr. Marave is the **Technical Advisor** of **Chamber of Industry & Commerce** in Greece. Prior to this, he gained his thorough practical experience through several positions as the **Technical Instructor, Engineering Manager, Electronics & Instruments Head, Electrical, Electronics & Instruments Maintenance Superintendent, Assistant General Technical Manager** and **Engineering Supervisor** of various international companies such as the **Alumil Mylonas, Athens Papermill, Astropol** and the **Science Technical Education**.

Mr. Marave is a **Registered Professional Engineer** and has **Master** and **Bachelor** degrees in **Electrical Engineering** from the **Polytechnic Institute of New York** and **Pratt Institute of New York (USA)** respectively. Further, he is a **Certified Instructor/Trainer, a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)** and an active member of the **Technical Chamber** and the **Institute of Electrical and Electronics Engineer (IEEE)** in Greece. He has presented and delivered **numerous international** courses, conferences, trainings and workshops worldwide.



Course Fee

Abu Dhabi	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
Al Khobar	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.
Istanbul	US\$ 6,000 per Delegate + VAT . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Dubai	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 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 – 0930	<i>General Requirements Inspections</i>
0930 – 0945	<i>Break</i>
0945 – 1045	<i>Electrical & Instrument Document</i>
1045 – 1200	<i>Material Selection</i>
1200 – 1215	<i>Break</i>
1215 – 1330	<i>Installation</i>
1330 – 1420	<i>Safety Checklist for Electrical Inspections</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day One</i>

Day 2

0730 – 0900	<i>General Wiring Methods</i>
0900 – 0915	<i>Break</i>
0915 – 1100	<i>Boxes and Conduit Bodies</i>
1100 – 1230	<i>Cabinets and Cutout Boxes</i>
1230 – 1245	<i>Break</i>
1245 – 1420	<i>Switches and Receptacles</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day Two</i>

Day 3

0730 – 0930	<i>Services, Feeders and Branch Circuits</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Grounding and Bonding</i>
1100 – 1215	<i>General Electrical Inspection Checklists</i>

1215 – 1230	Break
1230 – 1420	Commercial and Industrial Inspections Motors • Transformers • Capacitors • Signs and Outline Lighting
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

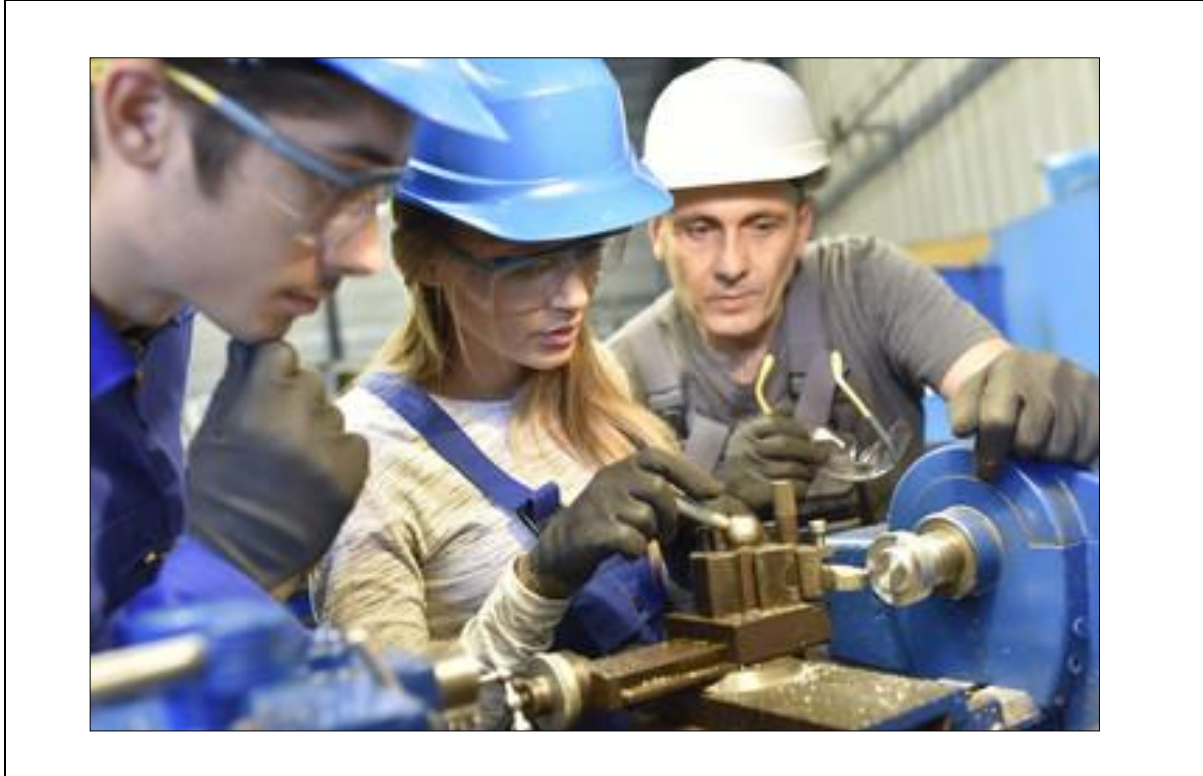
0730 – 0930	Hazardous Locations Checklist Checklist of Class I Locations • Checklist of Class II Locations • Checklist of Class III Locations
0930 – 0945	Break
0945 – 1100	Instrument Controller
1100 – 1215	Piping & Instrument Diagram
1215 – 1230	Break
1230 – 1420	Fire & Gas Detection and ESD (Emergency Shutdown)
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0930	Telecommunication
0930 – 0945	Break
0945 – 1100	Calibrate and Function Test Instrument
1100 – 1200	Hazardous Location
1200 – 1215	Break
1215 – 1300	Basic & Regulation Inspection
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