COURSE OVERVIEW EE1030
Certified Electrical Safety Compliance Professional
(NFPA - CESCP Exam Preparation Training)

Course Title
Certified Electrical Safety Compliance Professional *(NFPA - CESCP Exam Preparation Training)*

Course Date/Venue
November 16-20, 2025/Sharjah Meeting Room, The Tower Plaza Hotel, Dubai, UAE

Course Reference
EE1030

Course Duration/Credits
Five days/4.0 CEUs/40 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.

This course is designed to provide participants with a detailed and up-to-date overview of Certified Electrical Safety Compliance Professional (NFPA - CESCP). It covers the scope and purpose of NFPA 70E including the principles and components of an electrical safety program; the risk assessment procedures and heirarchy of risk control methods; the general documentation requirements for electrical safety programs; the safety-related maintenance requirements for electrical equipment; the installations and maintenance impacts on safety-related work practices; the employer responsibilities and other party responsibilities; and the electrical safety-related terminology.

During this interactive course, participants will learn the emergency procedures for assisting victims of electrical incidents; the risk assessment and hazard analysis; the personal protective equipment (PPE); the hazards associated with energized electrical conductors and circuit parts; the proper use of and requirements for portable electric equipment including GFCI protection devices and overcurrent protective devices (OCPD); the electrically safe work condition and LOTO principles and procedures; recognizing work involving electrical hazards and safety requirements for special equipment; and the electrical safety requirements related to lasers, power electronic equipment, research and development laboratories and capacitors.

Course Objectives

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

- Apply and gain an in-depth knowledge on Certified Electrical Safety Compliance Professional
- Discuss the scope and purpose of NFPA 70E including the principles and components of an electrical safety program, risk assessment procedures and the hierarchy of risk control methods
- Identify the general documentation requirements for electrical safety programs including training, audit and lockout/tagout documentation requirements
- Recognize the safety-related maintenance requirements for electrical equipment and installations and maintenance impacts on safety-related work practices
- Identify employer responsibilities and other party responsibilities and define electrical safety-related terminology
- Carryout emergency procedures for assisting victims of electrical incidents including risk assessment and hazard analysis
- Use personal protective equipment (PPE) and identify the hazards associated with energized electrical conductors and circuit parts
- Implement proper use of and requirements for portable electric equipment including GFCI protection devices and overcurrent protective devices (OCPD)
- Establish an electrically safe work condition and apply LOTO principles and procedures
- Recognize work involving electrical hazards and safety requirements for special equipment
- Identify electrical safety requirements related to lasers, power electronic equipment, research and development laboratories and capacitors

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 is designed for those who are involved in the selection, commissioning, operation, maintenance, testing or troubleshooting of the generator excitation systems and AVR including engineers, supervisors and other technical staff.

Exam Eligibility & Structure

Exam candidates shall have the following minimum prerequisites:

A) All Candidates	
All CESCP Candidates (Regardless of Job function) must meet the following minimum requirements:-	Acceptable Documentation
• Attendance of Haward's EE0625 Course	• Certificate or proof of attendance/completion
• Holding a high school diploma or equivalent	• No documentation required

B) Electricians	
In addition to the minimum requirements found in Table A, all Electricians applying for entry into the CESCP program must meet ONE of the following:-	Acceptable Documentation
• Licensed electrician with 8,000 hrs (4 years) of verifiable work experience with electrical power systems **OR,**	• Proof of Licensure **AND,** • Letter from supervisor (showing number of hours worked)
• In lieu of licensure, must show proof of electrician job role and 8,000 hrs (4 years) of verifiable work experience with electrical power systems	• Copy of job description (signed by supervisor) **AND,** • Letter from supervisor (showing number of hours worked)

C) Electrical Engineers	
In addition to the minimum requirements found in Table A, all Electrical Engineers applying for entry into the CESCP program must meet ONE of the following:-	Acceptable Documentation
• Associate degree in electrical engineering from an accredited college or university with 8,000 hrs (4 years) of verifiable work experience with electrical power systems (field work) **OR,**	• Proof of degree **AND,** • Letter from supervisor (showing number of hours worked)
• Bachelor's degree (or higher) in electrical engineering from an accredited college or university with 4,000 hrs (2 years) of verifiable work experience with electrical power system (field work) **OR,**	• Proof of degree **AND,** • Letter from supervisor (showing number of hours worked)
• Licensed Registered Professional Electrical Engineer	• Proof of licensure

D) Non- Electrician/Electrical Engineer (Other) Candidates	
In addition to the minimum requirements found in Table A, all other candidates applying for entry into the CESCP program must meet ONE of the following:-	Acceptable Documentation
• Certified Safety Professional (CSP) with 6,000 hrs (3 years) of verifiable work experience with electrical power systems **OR,**	• Proof of CSP **AND,** • Letter from supervisor (showing number of hours worked)
• Bachelor's degree (or higher) in engineering, technology, or other related technical discipline from an accredited college or university with 6,000 hrs (3 years) of verifiable work experience with electrical power systems **OR,**	• Proof of degree **AND,** • Letter from supervisor (showing number of hours worked)
• Facilities/Plant/Factory safety professional with 20,000 hrs (10 years) of verifiable work experience with electrical power systems	• Copy of job description (signed by supervisor) **AND,** • Letter from supervisor (showing number of hours worked)

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.

Accommodation

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

Training 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.

Exam Fee

US$ 665 per Delegate + **VAT**.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's 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**. 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.

- 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 **4.0 CEUs** (Continuing Education Units) or **40 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 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. Barry Pretorius is a **Senior Electrical & Instrumentation Engineer** with almost **30 years** of extensive experience within the **Oil**, **Gas**, **Petrochemical**, **Refinery** & **Power** industries. His expertise widely covers in the areas of **Electrical Safety and Hazardous Area Classification** in the Petrochemical Industry, **Electrical Safety & Lockout / Tagout**, **Electrical & Automation Control Systems**, **HV/MV Switchgear**, **LV & MV** Switchgears & Circuit Breakers, **High Voltage Electrical Safety**, **LV & HV Electrical System**, **HV Equipment** Inspection & Maintenance, **LV Distribution Switchgear & Equipment**, **Electrical Safety**, **Electrical** Maintenance, **Transformers**, **Medium & High Voltage Equipment**, **Circuit Breakers**, **Cable & Overhead Line** Troubleshooting & Maintenance, **Electrical Drawing & Schematics**, **Voltage Distribution**, **Power Distribution**, **Filters**, **Automation System**, **Electrical Variable Speed Drives**, **Power** Systems, **Power Generation**, **Diesel Generators**, **Power Stations**, Uninterruptible Power Systems (**UPS**), **Battery Chargers**, **AC & DC Transmission**, **CCTV** Installation, **Data & Fire Alarm** System, **Evacuation** Systems and **Electrical Motors & Variable Speed Drives**, & Control of Electrical and Electronic devices, **DCS** Operations & Techniques, **Plant Control** and Protection Systems, **Process Control & Instrumentation**, **Cascade Control Loops**, **Split-Range Control Loops**, **Capacity Control** & Other Advanced Control Schemes, **Safety Instrumented Systems**, **Plant Automation** Operations & Maintenance, Programmable Logic Controller (**PLC**), **Siemens PLC** Simatic S7-400/S7-300/S7-200, **PLC & SCADA** for Automation & Process Control, **Artificial Intelligence**, **Allen Bradley PLC** Programing and Hardware Trouble Shooting, Schneider **SCADA System**, **Wonder Ware**, **Emerson**, **Honeywell**, **Honeywell** Safety Manager PLC, **Yokogawa**, Advanced **DCS Yokogawa**, **Endress & Hauser**, Field Commissioning and Start up Testing Pre Operations, System Factory Acceptance Test (**FAT**), FactoryLink ECS, Modicon 484, Rockwell Automation, System Site Acceptance Test (**SAT**), **SCADA HMI & PLC** Control Logic, **Cyber Security** Practitioner, **Cyber Security** of Industrial Control System, **IT Cyber Security** Best Practices, **Cybersecurity** Fundamentals, **Ethical Hacking & Penetration Testing**, **Cybersecurity** Risk Management, **Cybersecurity** Threat Intelligence, **OT Whitelisting** for Better Industrial Control System Defense, **NESA** Standard and Compliance Workshop, **OT**, **Cyber Attacks** Awareness - Malware/Ransom Ware / Virus /Trojan/ Philsing, **Information Security Manager**, **Security System** Installation and Maintenance, Implementation, Systems Testing, Commissioning and Startup, **Foxboro DCS & Triconics**, **SIS** Systems, Advanced **DC Drives**, Motion Control, **Hydraulics**, **Pneumatics and Control Systems** Engineering.

During Mr. Pretorius's career life, he has gained his practical experience through several significant positions and dedication as the **Senior Technical Analyst, Team Leader, Pre-operations Startup Engineer, Automation System's Software Manager, Automation System's Senior Project Engineer, PLC Specialist, Site Manager, Senior Project & Commissioning Engineer, Technical Director, Project Engineer, Radio Technician**, **A T E Technician** and **Senior Instructor/Trainer** from various companies like the ADNOC Sour Gas, Ras Al Khair Aluminum Smelter, Johnson Matthey Pty. Ltd, Craigcor Engineering, Unitronics South Africa Pty (Ltd), Bridgestone/Firestone South Africa Pty (Ltd) and South African Defense Force.

Mr. Pretorius's has a Higher Diploma in **Electrical Engineering Heavy Current**. Further, he is a **Certified Instructor/Trainer** and delivered numerous trainings, courses, 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 course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: ***Sunday, 16th of November 2025***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Electrical Safety Programs*** *Scope and Purpose (The Scope and Purpose of NFPA 70E, Principles and Components of an Electrical Safety Program, Risk Assessment Procedures, The Hierarchy of Risk Control Methods)*
0930 – 0945	*Break*
0945 – 1200	***Electrical Safety Programs (cont'd)*** *Documentation Requirements (General Documentation Requirements for Electrical Safety Programs, Training Documentation Requirements, Audit Documentation Requirements, Lockout/Tagout Documentation Requirements)*
1200 – 1300	*Lunch*
1300 – 1500	***Electrical Safety Programs (cont'd)*** *Maintenance Requirements (Safety-Related Maintenance Requirements for Electrical Equipment and Installations)*
1500 – 1515	*Break*
1515 - 1650	***Electrical Safety Programs (cont'd)*** *Maintenance Requirements (Maintenance Impacts on Safety-Related Work Practices)*
1650 – 1700	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1700	*End of Day One*

Day 2: ***Monday, 17th of November 2025***

0730 – 0930	***Electrical Safety Programs (cont'd)*** *Employer Responsibilities (Articulate Electrical Safety Program Audit Requirements, Requirements and Responsibilities Related to Job Safety Planning and Job Briefings, Requirements Related to the Use of Test Instruments and Equipment, Requirements for Qualified Persons, Requirements and Limitations of Qualified vs. Unqualified Persons, Other and Additional Training Requirements)*
0930 – 0945	*Break*
0945 – 1145	***Electrical Safety Programs (cont'd)*** *Other Party Responsibilities (Identify and Understand Employee Responsibilities, Host Responsibilities, Contract Employer Responsibilities)*
1145 - 1245	*Lunch*
1245 – 1515	***Electrical Safety-Related Work Practices*** *Definitions (Electrical Safety-Related Terminology, Distinguish Correct vs. Incorrect Definitions)*

1515 - 1530	*Break*
1530 – 1650	***Electrical Safety-Related Work Practices (cont'd)*** *Emergency Procedures for Assisting Victims of Electrical Incidents (Methods of Release from Contact, Emergency Response Requirements)*
1650 – 1700	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1700	*End of Day Two*

Day 3: ***Tuesday, 18th of November 2025***

0730 – 0930	***Electrical Safety-Related Work Practices (cont'd)*** *Risk Assessment and Hazard Analysis (Requirements and Components of an Electrical Hazard Risk Assessment, How to Perform a Shock Risk Assessment, How to Perform an Arc Flash Risk Assessment, Explain the Different Approach Boundaries and Their Use, Incident Energy, Understand the Effect of Clearing Time, Short Circuit Current, and Working Distance on Incident Energy, Hazard Information Required on Equipment Labels, The Use and Limitations of the PPE Category Classification Method, Distinguish Between Normal and Abnormal Equipment Conditions, The Required Use of Alerting Techniques, How to Identify Look-Alike Equipment)*
0930 – 0945	*Break*
0945 – 1200	***Electrical Safety-Related Work Practices (cont'd)*** *Personal Protective Equipment (PPE) (PPE Ratings, PPE Requirements for Electrical Hazards, Differences Between Arc Flash PPE and Electrical Shock PPE, Requirements for the Care and Maintenance of PPE, Limitations of PPE, Various Methods of Determining Appropriate PPE, Requirements for Other Protective Equipment (e.g., Insulated Tools, Ladders, Shields))*
1200 – 1300	*Lunch*
1300 – 1445	***Electrical Safety-Related Work Practices (cont'd)*** *Electrical Hazards (Hazards Associated with Energized Electrical Conductors and Circuit Parts, Relationship Between Electrical Hazards and Potential Injuries)*
1445 – 1500	*Break*
1500 - 1650	***Electrical Safety-Related Work Practices (cont'd)*** *Other Equipment (Proper Use of and Requirements for Portable Electric Equipment, Operation and Requirements for GFCI Protection Devices, Operation and Limitations of Overcurrent Protective Devices (OCPD))*
1650 - 1700	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1700	*End of Day Three*

Day 4: ***Wednesday, 19th of November 2025***

0730 – 1000	***Electrically Safe Work Conditions*** *Establishing an Electrically Safe Work Condition (Proper Sequence of Steps to Establish and Verify an Electrically Safe Work Condition, Purpose and Application of Single-Line Diagrams)*
1000 – 1015	*Break*
1015 - 1200	***Electrically Safe Work Conditions (cont'd)*** *Establishing an Electrically Safe Work Condition (Requirements for Temporary Protective Grounding Equipment)*

1200 - 1300	Lunch
1300 – 1500	***Electrically Safe Work Conditions (cont'd)*** *Establishing an Electrically Safe Work Condition (Requirements Related to the Use of Test Instruments)*
1500 – 1515	Break
1515 - 1650	***Electrically Safe Work Conditions (cont'd)*** *Lockout/ Tagout (LOTO) (LOTO Principles and Procedures)*
1650 - 1700	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1700	*End of Day Four*

Day 5: Thursday, 20th of November 2025

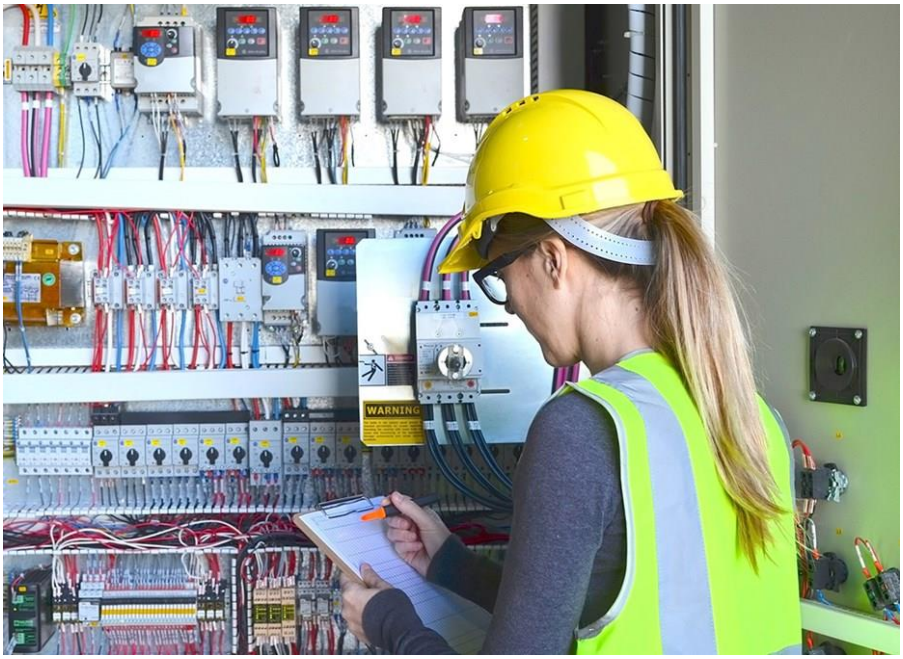
0730 – 0930	***Electrically Safe Work Conditions (cont'd)*** *Lockout/ Tagout (LOTO) (Understand Forms of Control, Requirements for LOTO Equipment)*
0930 – 0945	Break
0945 – 1145	***Work Involving Electrical Hazards*** *Energized Electrical Work (Criteria for Justification of Energized Work, Exceptions to Energized Work Requirements, The Elements of Energized Electrical Work Permits, Understand When an Energized Electrical Work Permit is and is Not Required)*
1145 - 1245	Lunch
1245 - 1500	***Safety Requirements for Special Equipment*** *Electrolytic Cells (Safety-Related Work Practices for Electrolytic Cells, Electrical Safety Requirements Related to Electrolytic Cells) • Batteries and Battery Rooms (Electrical Safety Requirements Related to Batteries and Battery Rooms) • Lasers (Safety-Related Work Practices for Lasers, Electrical Safety Requirements Related to Lasers)*
1500 – 1515	Break
1515 - 1615	***Safety Requirements for Special Equipment (cont'd)*** *Power Electronic Equipment (Safety-Related Work Practices for Power Electronic Equipment, Electrical Safety Requirements Related to Power Electronic Equipment) • Research and Development Laboratories (Safety-Related Work Practices for Research and Development Laboratories, Electrical Safety Requirements Related to Research and Development Laboratories) • Capacitors (Safety-Related Work Practices for Capacitors, Electrical Safety Requirements Related to Capacitors)*
1615 – 1630	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1630 – 1645	***POST-TEST***
1645 – 1700	*Presentation of Course Certificates*
1700	*End of Course*

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK Exam during the 60 days following the course completion. Each participant has only one trial for the MOCK exam within this 60-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Practical Sessions

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



Course Coordinator

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