



Content
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CE Code Photovoltaic and Haz Loc Equipment

Course details: <https://electricityforum.com/electrical-training/ce-code-pv-systems-hazloc>

COURSE DATES AND TIMES

THIS ONE DAY COURSE IS INTENDED FOR THOSE LOOKING TO GAIN CE CODE KNOWLEDGE ON SOLAR SYSTEMS, FROM THE PHOTOVOLTAIC ARRAY, THROUGH THE INVERTER TO USABLE POWER. DESIGNED FOR ENGINEERS, ELECTRICIANS AND INSPECTORS LOOKING TO GET INTO THE QUICKLY GROWING MARKET OF SOLAR POWER, WE WILL EXPLORE THE MAJOR COMPONENTS AND HOW THEY ARE IMPACTED BY THE CANADIAN ELECTRICAL CODE.

See the course details here:

<https://www.electricityforum.com/electrical-training/ce-code-photovoltaic-systems>

THIS ONE DAY COURSE IS IDEAL FOR THE ENGINEER LOOKING TO START OR THE ELECTRICIAN WANTING TO EXPAND THEIR KNOWLEDGE IN HAZARDOUS LOCATIONS. WE WILL EXPLORE ALL CONCEPTS RELATED TO ABOVE GROUND HAZARDOUS LOCATIONS. IF YOU ENGINEER OR MAINTAIN THE ELECTRICS IN THE OIL AND GAS INDUSTRY AND OTHER EXPLOSIVE ATMOSPHERES.

See the course details here:

www.electricityforum.com/electrical-training/ce-code-hazardous-locations

COURSE OUTLINE

DAY ONE

CE Code for Photovoltaic Systems

1) PV Panels

- Voltage
- Wiring Methods
- Ampacity Of Conductors
- Attachment Plugs
- Rodent Protection
- Bonding

2) Disconnect

- Array Disconnect
- Combiner
- Rapid Shutdown
- Inverter
- Marking

3) Interconnection

- Islanding
- Ampacity Of Neutral
- Loss Of Phase
- Busbar Ratings
- Back Fed Breakers
- Marking

4) Energy Storage

- Charge Control
- Ventilation
- Voltage Limitations
- Wiring Methods
- Diversion Load Control

DAY TWO

CE Code and Hazardous Locations Systems

SESSION 1: Principles of Hazardous Locations

- a) History
- b) Definition
- c) Zones, Classifications/Divisions
- d) Gases and Vapours

e) Dusts

SESSION 2: Applications

- a) Legal responsibility
- b) Applicable codes, available guides/handbooks
 - i) Canadian Electrical Code/national electric code
 - ii) American Petroleum Institute
 - iii) Energy Institute
 - iv) IEC
 - v) ANSI
 - vi) Standata
 - vii) Section 19

SESSION 3: Flameproof enclosures

- a) History
- b) Types of joints
- c) Windows in enclosures
- d) Special fasteners
- e) Breathers and drains
- f) Explosive fluid seals
- g) Testing of the enclosure

SESSION 4: Flameproof installations

- a) Conduit system
- b) Cable systems
- c) Flexible conduit
- d) Flexible cords and cables
- e) Factory sealed devices
- f) maintenance

SESSION 5: Dust-Ignition proof enclosures

- a) History
- b) Dual-rated enclosures and requirements
- c) Marking requirements
- d) Conduit systems
- e) Cable systems
- f) maintenance

SESSION 6: Intrinsic Safety

- a) History
- b) Testing devices for intrinsic safety
- c) Zener barriers
- d) The entity concept
- e) Control drawings
- f) Wiring methods
- g) Entity concept

SESSION 7: Purged and pressurized enclosures

- a) Principle of operations
- b) Pressuring by blower
- c) Compressed air systems
- d) Protective measures
- e) Pressurised rooms
- f) Static pressurization
- g) Analyzer houses
- h) Gas turbines

SESSION 8: Increased safety

- a) Background
- b) Principle of operations
- c) Special provisions
- d) Advantages
- e) maintenance

SESSION 9: Combustible gas detection

- a) History
- b) Principle of operation
- c) Testing procedures
- d) Electromagnetic stability
- e) Application
- f) Installation
- g) Calibration and maintenance

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<https://electricityforum.com/onsite-requestforquote>