

AGENDA – Understanding Ground Resistance Testing

Defining ground, basic electrical resistance testing concepts, and ground system components.

- Ground resistance measurements & system components.
- Electrical testing basics, voltage, current, resistance and impedance.
- Ohms law calculations.
- Earth circuit basics & the low impedance path to earth.
- Why ground?

Soil Dynamics & The Earth-Electrode Connection

- Earth connections – Soil volume & resistivity
- Resistivity and Soil Dynamics
- Measuring Soil Resistivity – **Wenner SR Testing**
- Electrode connections – Soil volume
- Zones “spheres” of influence single and multiple electrode systems
- Applying resistivity and volume to calculate resistance values of electrodes.

Ground Electrode Resistance Testing – Fall-of-Potential Method

- Ground Resistance meter types & functions.
- Fall-of-Potential concepts & requirements.
- Simplified (62%) and Full Fall-of-Potential test procedures.
- Determining accuracy for Fall-of-Potential
- Considerations & overcoming difficulties in testing scenarios.
- Fall-of-potential reporting and validation.
- Alternative test methods for Fall-of-Potential – Slope & Selective FoP.

Ground Electrode Resistance Testing – Clamp-on Method

- Clamp on meter functions & concept
- Application of Clamp-on meters
- Interpreting results

Online Ground Webinar



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Bond & Continuity testing – Micro-ohmmeter & Point-to-Point testing

- Comparing bond testing with a micro-ohmmeter to continuity “point-to-point” testing.
- Bond connector types and failures
- Micro ohmmeter basics
- Completing bond resistance testing and analysis of results
- Point-to-point testing and instruments
- How to complete point-to-point and interpret results

At Conclusion of Webinar:

- A link to the online exam and questionnaire is emailed to the attendee at the conclusion of the webinar. *(please complete within 48 hours)*

Before Webinar Material Supplied:

- Worksheets needed for the class (print 1 copy each of Worksheets 1, 2 & 3 and 2 copies of Worksheet 4 (to be printed before the class))
- Webinar Agenda
- Webinar presentation

After Webinar Attendee Will Receive:

- Certificate of course completion
- Exam score and identification of right and wrong answers to each question
- Personalized Certification Certificate (if exam score is 75% or better)*
- Rebate discount certificate for a future purchase *(Continental U.S. end user customers only)**
- Links to the material and references covered in the webinar including formulas, report forms, AEMC Grounding Workbook, AEMC® Grounding video, and literature on ground test.
- A gift for attending the class. *(Continental U.S. only)**

Please allow 4-6 weeks for processing.

**Items will be mailed to addresses in the Continental U.S. only. All others will receive links to materials and PDFs of certificates.*