



Capital University of Science and Technology

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September 11, 2024, Wednesday

One Day Hands-on Training on “Modern Grounding Techniques & Types of Electrical Earthing Systems” conducted by Department of Electrical & Computing Engineering in collaboration with ORIC-CUST & Creative Electronics & Automation (CREST)

Department of Electrical & Computer Engineering (ECE), in collaboration with **ORIC-CUST** and Creative Electronics & Automation (CREST) organized one-day hands-on training on "Modern Grounding Techniques & Types of Electrical Earthing Systems" on **Wednesday, September 11, 2024 at 10:00AM** at Workshop Room "B" Block at Capital University of Science & Technology, Islamabad.

The resource person for this training was Mr. Shahzad Muhammad Khan (Director Technical, Creative Electronics & Automation, CREST). A total of **18** participants from different industrial groups i.e. Iman Group, Pakistan State oil (PSO), and Heavy Mechanical Complex (HMC) attended the training.

Dr. Nayyer Masood, (Dean ORIC & Professor at CS Department) began the training with the recitation of the Holy Quran. He first welcomed all the guests and participants, and then presented an introduction of the university and the ORIC department to all participants.



Dr. Noor Muhammad Khan (Professor /HoD Electrical & Computer Engineering) welcomed the all participants and provided a brief introduction of the resource person, Mr. Shahzad Muhammad Khan.

After this, the resource person began the session, by providing the brief introduction of topic.

The content of training includes:

- Electrical Grounding
- Solar Earthing and Nepa Standards
- Earthing Techniques Conventional & Modern Practice

- Modern Materials
- Typical Earthing Electrode Design & Calculations
- Bonding & Connections, Zero Ohm Links
- Type of Earthing System
- How to measure Earth Resistivity (Practical)
- How to measure the Earth Resistance (Practical)



The session underscored the critical role of proper grounding in enhancing electrical safety and preventing hazards, providing participants with valuable insights into modern electrical systems.

Dr. Nayyer, (Dean ORIC) expressed his gratitude to resource person, for dedicating his valuable time and contributing to the success of this session. At the end of the event, feedback was also collected from all participants.

Following this, a certificate distribution ceremony took place, where all participants were awarded certificates.



Dr. Noor Muhammad Khan, (HoD, Electrical & Computer Engineering Department), presented an honorary guest shield to esteemed guest, Mr. Shahzad Muhammad Khan.

The meeting concluded with a group photo and a vote of thanks.

