



University of Bahrain MICRO-CREDENTIAL



Electrical Safety and Protection of Electrical Installations

GENERAL INFORMATION

Duration: 8 Weeks

Total Hours: 80 hours

Venue: To be announced

Fees: 500 BHD

Credits: 2 credits

Level: Undergraduate

Language: English

Pre-requisite: Specific requirements or qualifications a participant must have before enrolling.

INSTRUCTORS BIOGRAPHY



Dr. Sayed Ali Al-Mosawi

Associate Professor, Electrical Engineering, UOB. PhD in Power Electronics (Imperial College, 1995), with 50+ publications and expertise in FACTS devices and control applications.



Dr. Fadhel Abbas Albasri

Assistant Professor, Electrical Engineering, UOB. PhD (Western Ontario, 2007), 22+ publications, Fellow of UK Higher Education Academy, IEEE member, specializing in power systems and FACTS devices.



Micro-credential is a short, focused course designed to equip learners with specific skills and knowledge within a specialized area. It serves as a pathway to earning an equivalent certification for a core course, offering a flexible and targeted learning experience.

COURSE OVERVIEW

Electrical safety and maintenance are crucial for ensuring reliability and protecting personnel and equipment in power systems. Standards like NEC, IEEE, and IEC prevent hazards such as shocks and fires. Key challenges include aging equipment, poor installation, and lack of maintenance. Protection systems like circuit breakers, relays, and fuses help isolate faults and reduce damage. Adhering to standards and preventive maintenance enhances safety, efficiency, and reliability in electrical systems.

DELIVERY MODE

The Micro-credential in Electrical Safety and Protection includes:

- 32 hours in-person (4 hours/week for 8 weeks)
- 16 hours synchronous online (2 hours/week for 8 weeks)
- 16 hours asynchronous learning
- 16 hours guided project work

Peer engagement through online forums and group interactions.

ASSESSMENTS

- Case Studies (20%)
- Practical/Simulation Assignments (30%)
- Final Project (50%)

TARGET AUDIENCE

The Micro-credential in Electrical Safety and Protection is designed for early-career professionals, technicians, engineers, and recent graduates in electrical engineering or related fields. It is ideal for those in energy, manufacturing, utilities, and heavy industries, as well as mid-career professionals looking to upskill. Employers seeking to enhance workforce expertise and ensure safety compliance will also benefit from this course.

KEY TOPICS COVERED

- Fundamentals of Electricity
- Electrical Installation in Electrical Installations
- Danger of Electricity and Standards
- Protective Devices in Electrical Installations
- Special Installations
- Grounding systems in Electrical Insulations
- Electrical Hazard Protections



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For further Information, please contact:

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