

Electrical Distribution

Engineering Programme (EDEP)

Course Overview

The Electrical Distribution Engineering Programme (EDEP) is a self-paced online training programme designed to give power engineering professionals a comprehensive understanding of distribution networks and assets.

Accredited by City & Guilds and delivered via a Learning Management System, the EDEP combines structured modules, multimedia content and practical examples to ensure participants strengthen their technical knowledge and apply industry best practice.

Why EDEP?

By taking this programme, individuals will gain:

- Strengthened technical understanding across core distribution engineering topics.
- The ability to apply engineering standards in practice.
- Improved implementation of best practice within their organisation.
- 160 hours of interactive learning.

Course length

160 hours (20 hours per module)
Maximum 24 months

Modules

8

Delivery

Online, self-paced



Agenda

Transformers and Tapchangers

Learn construction, operation, fault management, and maintenance of transformers and on-load tap changers (OLTCs) in compliance with IEC and BS standards.

Switchgear

Explore high-voltage switchgear technologies, arc interruption methods, SF₆ safety, and switchgear selection and maintenance.

Overhead Lines

Understand design and mechanical performance including conductor sag/tension calculations, insulation systems, and environmental influences.

Cables

Covers low-voltage (LV) and high-voltage (HV) power cables, construction, installation, thermal ratings, and fault location methods.

System Protection

Delve into protection principles, relay technologies, coordination, and fault response using real-world grading charts and curves.

System Operation

Focus on safety rules, switching procedures, fault management, system security, and operational decision-making.

Substation Design, Earthing and Bonding

Address modern substation layouts, gas-insulated switchgear (GIS), earthing practices, environmental protection and control room considerations.

Network Design

Gain insight into economic and technical aspects of HV/LV network design, security standards, planning models, and regulatory compliance.

Programme may be subject to amendment.

This is a great opportunity to develop your skills and strengthen real-world understanding, with the flexibility of remote learning.

Mike Parkhouse

Head of Training at EA Technology.

