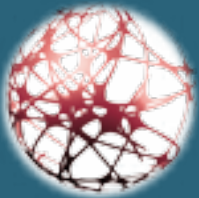




**GCC Electrical
Testing Laboratory**
المفتبر الفليبي لفمص المعداد الكهريانية

Design of electrical headlines for distribution network

International and local standards continuously update and it is necessary to align the personnel skill. Starting from theoretical topics the course gives practical example how to design the electrical line applying the international calculation rules.



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Education
Course Code: **E47**



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Design of electrical headlines for distribution network

APRIL
1 - 5
2018



GCC Electrical Testing Laboratory

المفتبر الفليبي لفص المعدات الكهربائية

Objectives

To familiarize with the main design practice and standards of the overhead lines in Medium voltage lines

Addressed to:

Electrical designer and maintenance responsible

Duration:

3 Full Days

Location/Venue:

GCCIA HQ, Dammam

Course Fees:

PROGRAM

The Course program contains the following training outline:

DAY 1

Poles and Steel Structures

- Basic design rules and calculation of structures
- Forces, stress and strain
- Basic elements of the overhead lines structures
- basic of electrical calculations

DAY 2

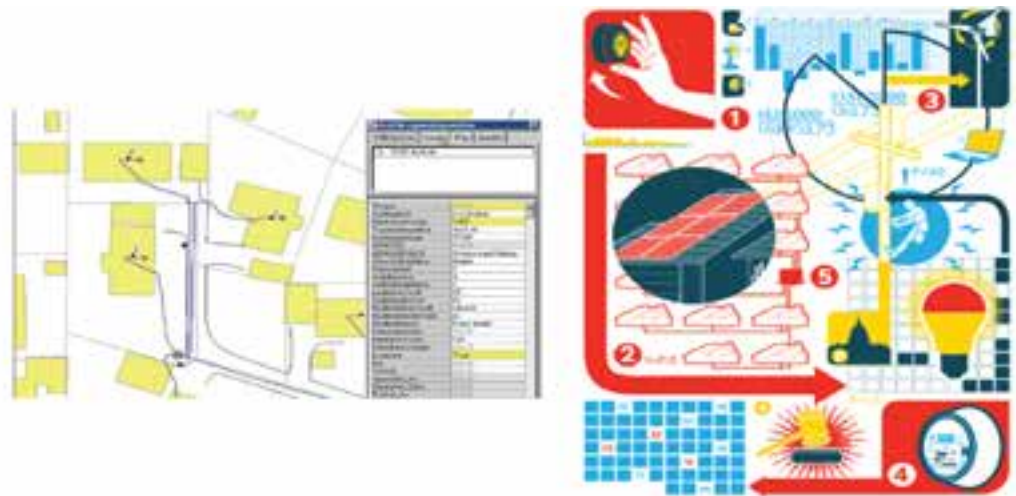
Using standard CENELEC 50341-1

- Calculation of the limit states
- Classification of actions
- Characteristic values
- Partial factor method and design formula
- Construction material- steel, wood, concrete
- Protection against corrosion and environmental
- Foundation
- Actions on lines- wind, loads, temperature effects, short circuit current effects

DAY 3

Using standard CENELEC 50341-1

- Electrical requirements
- Insulation and air clearance
- Coordination of conductor positions and electrical stresses
- Electric and magnetic effects
- Earthing systems
- Corona effect



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