GCC Electrical Testing Laboratory

المفتبر الفليجي لفحص المعدات الكهربائية

Design of electrical Overhead lines for distribution network

Objectives

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

PROGRAM

The Course program contains the following training outline:

DAY 1

Poles and Steel Structures

a. Basic design rules and calculation of structures
b. Forces, stress and strain
c. Basic elements of the Overhead lines structures
d. basic of electrical calculations

DAY 2

Using standard CENELEC 50341-1

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

DAY 3

Using standard CENELEC 50341-1

a. Electrical requirements
b. Insulation and air clearance
c. Coordination of conductor positions and electrical stresses
d. Electric and magnetic effects
e. Earthing systems
f. Corona effect

Addressed to:

Electrical designer and maintenance responsible

Duration:

3 Full Days

Location/Venue:

GCCIA HQ, Dammam

Course Fees: