Caneco BT software

Initial training

Ref. INST 101

GOAL:

To master the basic functions of the Caneco BT application for dimensioning simple Low Voltage electrical installations.

Intended for

- Design Office technicians and engineers
- Clerks of works
- Project managers

Duration: 3 days (21 hours)
Capacity: 8 persons max.

Prerequisites

- NVQ Level 1, 2, 3
- Knowledge of the standard
- Familiarity with electrical equipment
- Experience with computer tools in a Windows environment

Teaching resources

- One computer per participant, videoprojector, course material

Course contents

Methodology	Theory	Practice
	50%	50%

First steps

- Interface, tools, and features
- Identification system in Caneco BT

Creating and calculating a power supply

- Transformers, LV network
- Generating set
- Low Voltage by Ik
- Public supply network – controlled power, monitored power
- Designing the supply / main LV switchboard connection

Creating and modifying circuits

- Defining styles
- Entering data in network and board single-line diagrams, spreadsheet
- Inserting, deleting, moving, duplicating circuits
- Different types of terminal equipment
- Entering circuit parameters

Component technology - Refreshers

- The different types of cables
- Fuses (gG, aM) – characteristics
- Circuit-breakers (MCCB, ACB, MCB) – characteristics
- Switches / contactors, characteristics

Calculating circuits

- Refresher on fundamental rules for sizing circuits (electrical standard applicable)
- Determining the protection
- Cable ampacity current
- Correction factors (proximity, temperature, etc.)
- Determining the cable

Analysing the results

- Compliance criteria: indirect contact, short-circuits, voltage drops, nominal current
- Method for analysing the results
- Interpreting the design calculations
- Protective device settings
- Optimizing the results

Diagrams, graphical representation

- Creating the single-line diagram automatically from the data
- Creating new styles, creating blocks
- Automatic component identification
- Creating associated circuits
- Using text / ancillary diagrams / drawings
- Network diagram labels

Printing out

- Document template and folders
- Print configuration
- Logo, inserting documents
- Exporting to dxf, dwg