CYME Basic Web Training

October 2021

Further Information

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Overview of Training

This training course reviews the fundamental use of the software for distribution analysis.

This training is designed to help you use the software more effectively. Users learn to collect and assemble network data to build the distribution system model. Furthermore, the course explores the full range of functionality that is offered in **CYME International T&D Inc** software as well as its output capabilities. Finally, users will gain the skills necessary to analyze and interpret the simulation results.

CYME INTERNATIONAL T&D INC personnel who are thoroughly familiar with the software products and techniques applied instruct the course. Class size is limited so that each user may receive personal attention.

Session 1 – Basic Operation

Monday October 25th 1h00pm-4h00pm EDT

1. Startup and Installation

2. Interface and Preferences

3. Databases

a. Setting up the Database
   i. Creation
   ii. Selection of Databases, Profiles
b. Import/Export

4. One-line Diagram Navigation

a. Loading Feeders
b. Navigating on the One-Line Diagram

Session 2 – Load Flow and Saving

Tuesday October 26th 1h00pm-4h00pm EDT

1. Load Flow

a. Analysis
b. Analysis Layers
c. Result Box
d. Reports
   i. Use in Relation to the Graphical Display
   ii. Customizing
   iii. Exporting

2. Results Customization

3. Saving Options

a. Study vs. the Database
b. Self-Contained Study vs. the Database
c. Network Updates

Session 3 – Modeling and Display

Wednesday October 27th 1h00pm-4h00pm EDT

1. Load Modeling

a. Load Model
b. Load Allocation

2. Equipment Modeling

a. Conductors, Cables, Overhead Lines and Construction Details
b. Source Equivalents
c. Generators and Motors
d. Protective Devices

3. Network Modeling

a. Network Creation
    i. Feeders
    ii. Secondary Networks
    iii. Substations
    iv. Low Voltage Secondary Distribution
b. Section Structure
c. Editing a Network
d. What to Include or Exclude from the Model
e. Common Errors in Data Models

4. Graphical Display Options

a. Show Options
b. Symbols and Colors
c. Default Layers

5. Geographic Overlay and Online Maps Service

Session 4 – Analyses

Thursday October 28th 1h00pm-4h00pm EDT

1. Load Growth

2. Motor Start

a. Locked Rotor Analysis
b. Running and view the results
c. Maximum Start Size

3. Overload & Voltage Mitigation

a. Load transfer
b. Load balancing
c. Shunt capacitor installation
d. Line conductor replacement
e. Rephasing
f. Voltage regulators

4. Fault Analyses

a. Short Circuit Analysis
b. Fault Flow Analysis
c. Fault Locator
d. ANSI and IEC Short Circuit

Session 5 – Protection Analysis

Friday October 29th 1h00pm-4h00pm EDT

1. Equipment database and device settings

2. Operations on the One-Line Diagram

a. Plotting the Curves
b. Send branch coordination

3. Performing Device Coordination

a. Visual Check
b. Margin Calculation
c. coordination Analysis
d. Reach and Load Analysis

4. Sequence of Operations