



PAMAV TRAINING INSTITUTE & TECHNOLOGY CENTER, INC.

Competency-Based Training for Global Excellence

Electrical Design and Simulation Analysis (EDSA Paladin 2.0)

Course Outline

At the end of the program, the participants will be able to:

- Enumerate the fundamental, principles of the software EDSA Paladin structure and features;
- Apply the software capability to industrial, commercial and utility applications and the manage the EDSA tools
- Identify the methodologies and its software base programs and its importance to the power system
- Organize a project and project files;
- Create and understand Power flow studies: scope, methods, input data, output report, organize a power flow report and connect the report to the EDSA project;
- Solve Short circuit studies: scope, methods, input data, output report, organize short circuit report and connecting the report to the EDSA project;
- Understand PDC studies: scope, protection principles, protection coordination, data base, generate a PDC data base, input data, output report, organizing a PDC report and connecting the report and PDC curves to the EDSA project
- Understand Power Quality Investigation;
- Understand Power Factor studies
- Understand Power Factor improvement;
- Understand Impact of capacitor bank to the system
- Understand Bus frequency response (before and after connecting the capacitor bank)

DAY-1

- A) GENERAL INTRODUCTION AND PRE-TEST
- B) PER UNIT ANALYSIS AND SYMMETRICAL COMPONENTS (4 HOURS)
 - 1) Power Systems Representations
 - 2) Single Line Diagrams
 - 3) The Per-Unit System
 - 4) Positive Sequence Components
 - 5) Negative Sequence Components
 - 6) Zero Sequence Components
 - 7) Positive Sequence Networks
 - 8) Negative Sequence Networks
 - 9) Zero Sequence Networks

C) FAULT CALCULATION ON POWER SYSTEM

- 1) System Impedances
- 2) Faults in an Unloaded Generator
- 3) Symmetrical Faults
- 4) Unsymmetrical Faults
- 5) Faults on Power System at No-Load
- 6) Unsymmetrical Faults on Loaded Power Systems
- 7) Effects of Phase Shifting Transformers

DAY-2

D) EDSA TECHNICAL 2005 GRAPHIC INTERFACE

- 1) Catalog Management
- 2) Single Line Diagram Setup
- 3) Defining Scenarios
- 4) Defining Scenarios
- 5) Project Management
- 6) Multiple Page Projects
- 7) Multiple Drawings Project
- 8) Multiple Drawings and Pages
- 9) Electrical interconnection: multiple pages, multiple drawings projects
- 10) Hyper-linking
- 11) Hyper-linking to the Internet and other applications
- 12) Back Annotation
- 13) The Symbol Property Menu
- 14) Customizing Single Line Diagrams
- 15) Importing Drawings from AutoCAD and other applications
- 16) Practical Exercises
- 17) Managing & Assigning Feeder and Transformer Databases
- 18) 3 Phase Short Circuit Analysis
- 19) Short Circuit Analysis Options
- 20) L-G, L-L, L-L-G and 3P reporting

DAY-3

- E) ADVANCED LOAD FLOW ANALYSIS
 - 1) Under Load Tap Changers
 - 2) Local and Remote Voltage Control using ULTC's and SVC's
 - 3) Induction Motor Parameters and Advanced Motor Starting
 - 4) Simultaneous Load Flow & Dynamic Motor Starting
 - 5) Simultaneous Motor Starting Analysis
 - 6) Advanced Graphical Outputs & Reports
 - 7) Practical Exercises
 - 8) Managing Protective Device Coordination Databases

Course details

Who should attend?

- Electrical Engineers
- Engineering department staff
- Test engineers
- Cadet engineers
- Substation engineers
- Engineering faculty members

Date/s offered:

February 21 to 23
March 28 to 30
June 29 to July 1
August 10 to 12
September 21 to 23

Venue:

7th floor Integrated Professional Office Building 14 Quezon Avenue, Quezon City, Philippines

Registration fee:

Php 12,800.00 per person
3 participants from one company get 10% discount

Student and Faculty rate - P8,300.00

About PAMAV

PAMAV was formed in 2005 to offer competency training programs and continuous education that offers up-to-date skills and knowledge thru exposure to various current industry practices. We are a pioneer training center in the Philippines that offers competency-based training for Engineering professionals.

PAMAV offers public and in-house training seminars.

**For more information and assistance,
contact Sales at telephone (632) 7433694 or contact@pamavtech.com
www.pamavtech.com**



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Registration form

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Designation		
Company Name		
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Other courses available

Insulation Power Factor

Substation Design and Construction

Protective Relaying

Computer Aided Design for EE

Effective Communication for Engineers

Professional Image and business etiquette

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