

## **POWER SYSTEM PROTECTION & COORDINATION**

For Professional Electrical Engineer Applicants

**LEARN FROM A SEASONED & RENOWNED EXPERT IN THE FIELD  
OF ELECTRICAL ENGINEERING & DISTRIBUTION UTILITY**



### **COURSE DESCRIPTION**

This 3-day course will enable Professional Electrical Engineer applicants as well as other EE practitioners to learn the principles of power system protection and coordination of protective devices concerning the equipment damage curves.

This comprises the following discussions: fundamental aspects of overcurrent coordination, data required for the coordination study, coordination procedures, protective devices and characteristic curves, standard minimum coordination time interval, types of faults, the effect of fault current variations, and coordination across Delta-wye transformer.

### **PROGRAM OBJECTIVES**

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

- Understand the principles and concepts of power system protection and coordination procedure of protective devices concerning the equipment damage curves
- Understand the Protective Relaying Fundamentals
- Understand the Components of Protective Device Coordination
- Explain the manual computations of Electrical Equipment and Cable Damage Curves
- Experience hands-on manual plotting of Time-Current Characteristics Curves through Excel
- Experience Short Circuit Calculations for Protection Coordination Study

## WHO SHOULD ATTEND?

- Power System Engineers
- System Operations Engineers
- Power System Protection Engineers
- Power System Operator & Maintenance Engineers

---

## PROGRAM OUTLINE

3-day Online Class via Zoom  
February 20-22, 2023

- I. Fundamental Aspects of Overcurrent Coordination
  - II. Data required for the Coordination Study
  - III. Coordination Procedures
  - IV. Protective Devices and Characteristic Curves
  - V. Standard Minimum Coordination Time Interval
  - VI. Types of Faults
  - VII. Effect of Fault Current Variations
  - VIII. Coordination across Delta-wye Transformer
-

## ABOUT THE EXPERT SPEAKER



Engr. Medalla is a Professional Electrical Engineer and ASEAN Chartered Professional Engineer having expertise in Substations and Power System Protection for over 18 years of extensive experience working in Aboitiz Power.

He also worked as the overall in-charge of the Protection System Design up to the Testing/Commissioning of the 242MW, 4-unit Power Barges, Therma Mobile Inc. in Navotas which is interconnected to the MERALCO Sub-transmission line.

He attended various power system protection training programs locally and abroad. And he is currently a member of IIEE National Committees i.e., Training and CPD Committee-TCPDC and the convenor of the Technical Working Group in Harmonizing the PEC 1 Art. 2.4 Overcurrent Protection with IEC-60364 under the PEC 1-IEC Committee.

---

## LEARNING INVESTMENT

Enroll and learn about basic & advanced power system modelling techniques from the industry-renowned expert!

**15,000**

Standard rate

**13,500**

Special rate  
for group of 3+

To enroll, please click this [link](#).

After sending your enrollment request, please expect a reply from us within 24 hours containing the payment process and other reminders.

If you want an **in-house batch** for your group, you may email [learn@meralcopoweracademy.org](mailto:learn@meralcopoweracademy.org).

You may also contact us at +639989747089 if you need further assistance.