

## **Power Factor Measurement**

**Course Code:** PFM

**Duration:** 1/2 Day

**Cost:** \$350 excl GST

### **Course Purpose:**

This is a good entry-level training course demonstrating the basic principles of what, how and where power factor correction should be used in a low voltage distribution network. You will learn about active and reactive power and how these values determine the energy you use and ultimately pay for. You will also look at the products, technologies and general principles of power factor correction that when applied correctly will improve a networks power.

### **Course Objectives:**

Upon completion of this course, you will successfully understand:

- How to calculate the level of power factor correction required.
- What information you require to assess the type of correction needed.
- A range of power factor correction devices that can be used in a network.
- Rule of thumb and best practices of power factor correction.
- What generates harmonics and why they should be considered when correcting a network.
- The advances in Power Factor technology.
- The principles behind Power Factor Correction.

### **Target Audience:**

This course is recommended for individuals who work with switchboards and low voltage networks. Electrical Contractors, End Users, Switchboard Builders and Consultants will all get value from this course.

### **Prerequisite Knowledge:**

There are no prerequisites for this course.

### **Topical Outline:**

- Apply power factor correction principles to practical applications.
- Understanding how power factor correction works in a network and the benefit of improving the sites available apparent power.
- Understand and maximise the functionality of power factor controllers to ensure the best switching arrangement is applied according to a given network.
- Design an automatic power factor bank for a low voltage network.

### **Duration and Delivery:**

- a. Half Day Training Course
- b. In – class sessions at Schneider Electric training rooms, and hotel conference facilities at main centres though out New Zealand.

