

## COURSE NO.

**PROT-001****COURSE NAME**

Fundamentals of Protective Relay

**OBJECTIVES**

This course is suitable for electrical engineers who require a comprehensive understanding of the principles and applications of the most common types of protection found in power systems.

**COURSE DESCRIPTION**

1. Fault analysis methods: sequence of components, symmetrical & unsymmetrical component analysis, unsymmetrical faults
2. Principles of phase over-current relay and zero-sequence over-current relay
3. Principles of transformer relay, analysis and effects of inrush current, CT saturation and over-excitation
4. Principles of distance relay; analysis and performance of different types of distance relay
5. Principles of POTT, PUTT, Blocking scheme, line differential relay
6. Principles of busbar relay and anti-CT saturation algorithm, dead zone protection of bus-coupler

**CUSTOMER BENEFITS**

Upon completion, the course will provide

1. Comprehensive concept over various fault analysis
2. Wide range of theoretical coverage for Protection relays

**RELATED PRODUCTS****PREREQUISITES**

Have a reasonable understanding of electrical theory

**TRAINING METHODS**

100 % theoretical, Lecture and Discussion

**DURATION**

5 days

