# Power System Quality & Data Analysis

TG127



## Course Overview:

This course introduces the tools and programs skills that can be used in power system data gathering, analysis and presenting. Through hands-on exercises, participants gain experience of data scientist.

## Course Objective:

-Review the power system data collecting methodology

-Applying the specific statistic programs to analyze the data

## Course Outline:

-Introduce the power system data collecting

- Introduce the concepts of Quantitative and qualitative studies

-Data processing - Duplicate distributions and representation methods

-Measures of central tendency and its applications - Scattering measurements and applications - Statistical drawings

-Correlation - for quantitative and descriptive data

-Linear regression and its applications - Statistical distributions and their applications

-test for two independent samples - test t for an average of one sample - test t

-Independent

-Time series: defined - graphically - converted the time series to Stationary

-MA and AR type selection models

-Classification methods and applications

## Who Should Attend:

All engineers and technicians involved in the power sectors and power planning, operation, and also in the factories, and enterprises.

## Training Language:

English

## Training Methodology:

-Presentation & Slides

-Audio Visual Aids

-Interactive Discussion

-Participatory Exercise

-Action Learning

-Class Activities

-Case Studies

-Workshops

-Simulation