

Diagnostic test & Condition Assessment of Rotating Machine

Course Code: TR-B-8, Duration: 1 day

- **Overview of the Structure of Rotating Machine**
 - Stator components
 - Types of dry resin insulation used
 - Rotor components
- **Diagnostic testing of stator winding**
 - Stresses acting on stator winding
 - Root cause of stator failure
 - Possible defects for origin of PD
 - Partial discharge test and limitations of the various technique
 - Capacitance and Power factor measurement and limits of PF for various dry type insulation.
 - DC insulation resistance and polarization index limits
- **Diagnostic testing of Stator Core**
 - Stresses acting on Stator Core
 - High Power Ring Flux Test (Thermal Loop)
 - Electro-magnetic Core Imperfection Detector (ELCID) – Case studies of damage core
- **Diagnostic testing of Rotor**
 - Stresses acting on Rotor winding
 - Basic rotor theory
 - Basic construction and location of Air gap search coil (AGSC's)
 - Basic theory behind AGSC's
 - Condition monitoring procedures
 - Root cause of rotor failure
- **Condition assessment criteria of Generator**
- **Case studies- Generator inspection**
 - Minor outage, -Major outage
- **Investigation of Generator failure and finding of design, manufacturing weakness.**

CALL US ON +91-9374076950

EMAIL: rayaradhana@yahoo.com

LAXMI ASSOCIATES
VADODARA