

Online Condition Monitoring Training for

Thermal Applications

1. Maintenance Methodology

1. Periodic/Planned Maintenance
2. Breakdown/Forced Maintenance
3. Predictive Maintenance
4. Proactive Maintenance
5. (Root cause analysis)

2 (A). Vibrations in Rotating Machines

- i. Introduction & Theory
- ii. Characteristics of Vibration
- iii. Phase
- iv. Vibration Transducers

2 (B). Defects Encountered in Vibration Analysis

- i. Unbalance
- ii. Misalignment
- iii. Looseness
- iv. Gear Box Problems

2(C). Vibration Analysis & Fault Diagnosis using Various Signal Processing Techniques

- i. Time Domain
- ii. Frequency Domain
- iii. Statistical Domain
- iv. Cepstral Domain
- v. Wavelet Technology

2(D). Pre Outage Survey & Checks

2(E). Vibration of Turbine-Generator Unit

2(F). Field Balancing of Large Rotating Machinery (1 & 2 Plane Balancing)

2(G). End winding and Stator Bar Vibration

- 3. Online & Periodic Partial Discharge Measurement & Fault Analysis of Generators & Motors**
- 4. Online & Periodic Measurement and Diagnostic of Partial Discharge Measurement of Transformer & GIS**
- 5. Generator Rotor Turn Short Detector**
- 6. Ultrasonic Detector & Analyzer for Leakage, Bearings & Electrical Fault like Arcing, Tracking & Corona.**
- 7. Transformers Fault Analysis Techniques.**
 - a. Dissolved Gas Analysis**
 - b. Sweep Frequency Response Analysis**
 - c. Furan Gas Analysis**

For Further Details Please Contact:-

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