



# Nigerian Institution of Metallurgical, Mining & Materials Engineers

(A Division of The Nigerian Society of Engineers)



in collaboration with *PCS Training*

Presents Workshop on:



## POWER PLANT METALLURGY AND INSPECTION

### INTRODUCTION:

**E**fficient operation and maintenance of power generating plants and direct consequence of sound working knowledge of their materials of construction. Reducing materials degradation prematurely can contribute as much as 70% to reliability and operational efficiency.

The workshop will bring insights on diagnostic techniques for monitoring and improving performance of power plants, identifying plant failure modes, equipment assessment and the extension of service life for components. Industry standards and best practices shall be invoked ASTM, ASME, ISO, etc.

### KEY HIGHLIGHTS:

- ✘ Power Plant Types and Operational Principles
- ✘ Materials Selection & Coatings for Turbine Components
- ✘ Identifying and Preventing Power Plant Failure Modes
- ✘ Turbine Bore Inspection and Cleaning
- ✘ Metallurgical Examination: Damage Evaluation & Metallography
- ✘ Components Reconditioning and Life Extension Programmes
- ✘ Dimensional Checks and Non-destructive Testing
- ✘ Developing Major Inspection & Preventive Maintenance Programmes for Power Plants

### WHAT PARTICIPANTS WILL GAIN:

- Identify materials failure modes for turbines and power plant systems
- Understand Non-destructive inspection techniques to examine critical components
- Learn Best Practices in inspecting and replacing parts and components in generating plants
- Gain OEM maintenance assessment views on inspection and materials integrity

### FOR WHOM

Power plant maintenance managers, engineers, plant inspectors, reliability engineers, maintenance supervisors.

### DATE:

22nd - 24th April, 2020.

### VENUE:

**Leadway Assurance Training Centre (LTC)**  
10, Abebe Village Road, Roof Top,  
Apex Mill Building-Thomas Wyatt,  
Iganmu, Lagos.

**FEE:**  
**N160,000**

**Bank: First Bank**  
**A/C No: 2002925664**

*For further enquiries contact:*

**Nigerian Institution of Metallurgical, Mining & Materials Engineers**

(A Division of The Nigerian Society of Engineers)

NBRR Building: 3rd Floor, 15B, Awolowo Road, Ikoyi, Lagos.

Phone: 08029123312, 08057910422

E-mail: [info@metminmat.org](mailto:info@metminmat.org), [mat\\_met\\_min\\_@yahoo.com](mailto:mat_met_min_@yahoo.com).

WEB: [www.metminmat.org](http://www.metminmat.org)