



# Nigerian Institution of Metallurgical, Mining & Materials Engineers

(A Division of The Nigerian Society of Engineers)



in collaboration with *PCS Training*  
Presents *Workshop on:*



## ROOT CAUSE & FAILURE ANALYSIS OF MACHINERY COMPONENTS AND PROCESS OPERATIONS

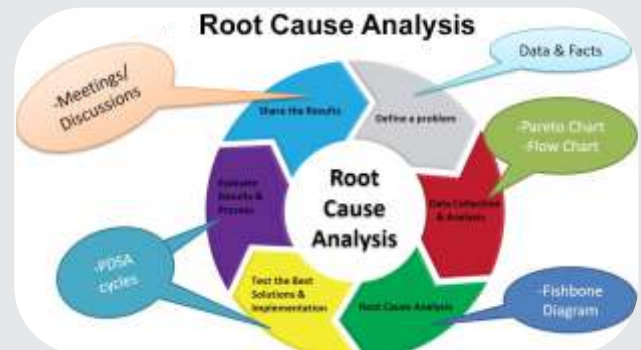
### INTRODUCTION AND RATIONALE:

Knowing, understanding and possessing solution(s) to actual cause of problems in whatever spheres of human endeavour has remained the distinguishing feature between professionals and quarks; trained, experienced subject matter experts and amateurs etc., be it in medicine, law, politics or wherever. In like vein, accurate diagnostic skills are required in all successful maintenance personnel who will aim at the 'object' and not the 'shadow' in preventing the occurrence or repeat of machinery and process upsets and failures

This workshop is focused on bringing participants up in the selection and use of appropriate root cause analysis techniques and tools, when and how to apply them in diverse engineering and industrial settings.

### INDICATIVE CONTENTS:

- ➔ Understanding root causes and engineering principles in Machineries and processes
  - Design
  - Materials & Mechanics
  - Physical and Chemical principles
- ➔ Tools for Root Cause Analysis I
  - Event and Causal Analysis
  - Change Analysis
  - Fault-Tree
  - Sequence-of-Events
- ➔ Tools for Root Cause Analysis II
  - SFMEA/FMECA
  - 5-Why
  - Cause and Effect
- ➔ Using Predictive Technology Tools
- ➔ Steps in Implementing RCA Solutions
- ➔ Case Studies



### WHO SHOULD ATTEND?

Engineers, Maintenance Managers and other, Consultants, Technocrats, Bureaucrats and all who are desirous of acquiring troubleshooting and problem solving skills.

FE E :  
**N165,000**

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

#### DATE:

17th - 19th June, 2020.

#### Re-run:

21st - 23rd October, 2020.

#### VENUE:

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

#### For further enquiries contact:

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