



## **Workshop on Diesel Engines Start-Up, Operations, Maintenance & Troubleshooting**

Feb. 26 – March 1, 2024, 1<sup>st</sup> Run: Lagos & Port Harcourt

August 26 – 30, 2024, 2<sup>nd</sup> Run: Lagos & Abuja

**For Tutor -Led Class:** 9am – 4:30pm

**Workshop fee:** N300, 000 per Participant

**For online:** Delivery via Zoom

**Online course fee:** N250, 000 per Participant

**Available for In-plant Training**

**600 U\$D for foreign**

**Participants**

### **Program Overview:**

This is a practical maintenance engineering training course enabling delegates from technical and production disciplines to understand the rudiments of functional responsibilities that guarantees high level of Diesel Engine Plant availability and reliability. This 5-day course teaches the practicality of Diesel Engine Plant Maintenance in a most suitable manner ready for implementation and monitoring.

### **For Whom:**

This course is designed for all levels of Technical Personnel in the oil & Gas Industry as well as in Chemical and Process Industries but will greatly benefit Technical Personnel in charge of Production, Maintenance & Operations Engineers, Diesel Engine Plant Operators, Supervisors and Engineering Managers

### **Learning Objectives:**

At the end of the program, participants will be able to:

- explain the concept of Diesel Engine Plant and their applications;
- comprehend the derivation, calculation & application of reliability centered maintenance to Diesel Engine Plant;
- measure the effectiveness and efficiency of Diesel Engine Plant Maintenance functions;
- evaluate investment opportunities in maintenance engineering vis-a-vis Diesel Engine Plant;
- ensure Diesel Engine Plant availability and reliability based on production planning models;
- evaluate cost-benefit analysis of Diesel Engine Plant maintenance activities with respect to production high level timing goals; and
- have a good overview of uncertainty and risk in the maintenance Diesel Engine Plant.

### **Course Outline:**

#### **Day 1: The Diesel Engine Plant: Definition, Concepts, and Principles & Designs**

- Pros and Cons of Various Maintenance Systems Applicable to Diesel Engine Plant
- Diesel Engine Plant Failure and Consequence Projections

## Day 2: Approaches to Diesel Engine Plant Maintenance

- Systematic Approach to Diesel Engine Plant Maintenance: MTTR, MTBF, FTE, etc. analysis
- Planning & Implementation of RCM for Diesel Engine Plant
- Cost-Benefit Analysis of RCMS in Diesel Engine Plant

## Day 3: RCM and Diesel Engine Plant Standard Operating Principles

- How Diesel Engine Plant maintenance has evolved
- Sources of best practice and benchmarking options
- The pitfalls of traditional maintenance practices
- Understanding where money should be invested and where money tends to be wasted
- The importance of Diesel Engine Plant Maintenance planning

## Day 4: Improving Diesel Engine Plant Reliability

- The relationship between fixed costs and maintenance performance
- A change in thinking
- Away from cost reduction or reliability or safety
- Towards cost reduction and reliability and safety

## Day 5: The modern Diesel Engine Plant maintenance strategy and asset management

- Diesel Engine Plant maintenance innovation and integration with operating teams
- Diesel Engine Plant cost, risk and value engineering
- Auditing and assurance processes for compliance with Diesel Engine Plant reliability processes
- Conforming with local legislation and relevant standards

### LOCATIONS

1 - HCA Learning Centre. Acme House 2nd Floor, 23, Acme Road, Ogba, Industrial Scheme, Ikeja, Lagos, Nigeria

2 - Green-Minds Hotel, Plot 764, Cadastral Zone B05, E. Ekukinam Street, Utako District, Abuja

3 – 4 Okwuruola Street, off Stadium Road, Rumuola, Port Harcourt, Rivers State.

**Open Course Fee: N300, 000**

In-plant Fee Negotiable

### WORKSHOP FEE:

**N300, 000 per participant, VAT –N22, 500**

Note: this covers Workshop Fee, Tea/coffee break, Lunch, course materials and certificate of attendance.

Payment should be made into our Accounts:

Account Name: Human Capital Associates Global Consult Ltd.

Union Bank of Nig. PLC: Account No: 0097961537

First Bank of Nig. PLC: Account No: 2033683960

Keystone Bank Ltd.: Account No: 1007150325

**For Booking / Enquiry, Call: 234-8051365946, 234-7087578814  
24/7 Lines: 234-8068933608, 234-8029170491, 234-8145745664,  
& 234-9112830607**

## Training Methodology

Lectures, discussions, exercises, case studies, audio-visual aids will be used to reinforce these teaching/learning methods.