

## Workshop on

# “Waukesha Gas Engine Operation and Maintenance”

5-Days On-line Program

## About Us

We are the training providers and deals in Technical, HSEQ, Management and Soft Skills Training.

We have highly knowledgeable and experienced local & foreign subject matter experts. Our team is highly focused and provides the best support as per your requirements and needs.

We provide a platform from where you can add value in you teams. We are highly fascinated on the development of your Technical and Management Teams.

We can provide on-site and classroom training.

## About Trainer

Mr. Tammy Karibo is a Reliability Engineer for a Reciprocating Engine and Compressor Packager in the Middle East. He holds a Bachelors and Master’s Degree in Mechanical Engineering from the Gubkin Russian State University of Oil and Gas.

He is an Innio Waukesha Certified Gas Engine Technician. He has over 10 years’ Experience in Reciprocating Gas Engines Including Waukesha And Caterpillar. He is also a Certified Reciprocating Machinery Analyst.

He has Performed various Maintenance And Condition Monitoring tasks at the following locations: Bahrain, Egypt, Kazakhstan, Oman, Russia, Tunisia and Nigeria.

He is also a Certified Maintenance and Reliability Professional. He is a member of the Society of Petroleum engineers (SPE) and American Society of Quality (ASQ).

As trainer, he has taught Training courses including; Vibration Analysis, Laser Alignment, Maintenance of Caterpillar 3500 Series, Maintenance and Reliability for Gas Engines and Compressors.

## Training Content:

### WAUKESHA GAS ENGINE MODELS AND FEATURES

Waukesha Engine families  
Various Engine Models  
Power Rating Charts  
Obsolete and New Products

### COOLING SYSTEMS

New Engine Coolant System Startup  
Cooling System Maintenance  
Cooling system Troubleshooting

### MOUNTING AND ALIGNMENT

Torsional and Linear Vibration  
Crankcase Deflection  
Crankshaft Deflection  
Installation and VeriFication

### COMBUSTION

Detonation, Pre-ignition and Early Combustion  
Causes of Detonation And Pre-ignition  
How to Eliminate Detonation And Pre-ignition

### EXHAUST GAS ANALYSIS

Importance of Exhaust Gas Analysis in Setting up your Engine  
Proper method of Performing EGA  
Discuss various types of Equipment and their Application

### LUBRICATION SYSTEM

Oil Composition  
Oil Analysis  
Servicing the Lube Oil System

### ENGINE BREATHING SYSTEM

Determine the Proper Time to Change Air Cleaners  
Proper Installation of the Exhaust System  
Troubleshoot High Exhaust Back Pressure  
Catalytic Converters and How They Work

### IGNITION SYSTEM

Function and Role of Ignition Systems  
Evolution of Waukesha Systems  
Ignition System Troubleshooting

The  
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Industrial Training & Consulting

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