EINGICE

EINGICE 2025
PRE-CONFERENCE TRAINING
SHORT COURSE I

TO WHOM IT MAY CONCERN

TO: **OIL AND GAS INDUSTRY PROFESSIONALS;**

OIL AND GAS PRODUCING COMPANIES;

OIL AND GAS SERVICE COMPANIES;

OIL AND GAS OPERATORS;

OIL AND GAS CONTRACTORS

FROM: **EINGICE SECRETARIAT**

EINGICE

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A highly intensive 2-Day Professional Training Short Course on:

TECHNIQUES FOR TROUBLESHOOTING AND RECTIFYING PROBLEMS IN OIL AND GAS PRODUCTION AND PROCESSING SYSTEMS

Upskill and Reskill Yourself and Become a World-Class Professional in Troubleshooting and Rectifying Oil and Gas Production and Processing Systems

Scheduled Short Course Date

Classroom (In-Person) and Online (Virtual)

28 - 29 October, 2025

Conference Venue

Transcorp Hilton Abuja, Nigeria

Course Description

This vital and highly intensive 2-Day training course on ***Techniques for Troubleshooting and Rectifying Problems in Oil and Gas Production and Processing Systems*** will enable delegates to keep abreast of the latest techniques and strategies for troubleshooting and rectifying oil and gas production and processing systems leading to optimised performance in operations and maintenance processes. The course would emphasize a structured, step-by-step approach to problem-solving, using real-world case studies and exercises, high-fidelity and dynamic simulators, computer-based eLearning tutorials, and practical/hands-on activities. The course will also cover: (1) Troubleshooting and rectification fundamentals (e.g. root cause analysis, condition monitoring, and corrective maintenance procedures, etc); (2) Production and

processing operations practice including the use and relevance of key controlled and operating variables in normal operations, startup operations, shutdown operations, and safety systems. And a detailed discussion of controlled and operating variables including: reservoir composition, well feed rate, stage temperature, separator interface level and separator pressure, among others; (3) Demonstration of troubleshooting and rectification problems in upstream production and processing facilities and equipment including hydrate formation, foaming and foam formation prevention, corrosion, compressor fouling, poor amine absorber performance, emulsions, wax and asphaltenes issues, NGL extraction/recovery processes (gas plant), fractionation unit operations, three-phase and two-phase gas-liquid separators, amine gas sweetening units, and glycol and molecular sieve dehydration units. It is assumed that the delegates have a solid understanding of how typical oil and gas production and processing systems work.

Course Goals and What Delegates will Learn

Delegates will learn the core competencies required for successful, intermediate and expert-level troubleshooting and rectification processes. They will complete a number of in-training course exercises, which will: (1) deepen their problem-solving skills and help them gain a better understanding and appreciation of the core functional aspects of how an effective troubleshooting and rectifying operational process should work, as well as help them differentiate troubleshooting, optimization, and debottlenecking; (2) train them on how to recognize trouble when it is occurring and how to develop a methodical approach to troubleshooting and rectification; (3) train them on how to recognize how different components of a facility interact with each other, and the significance of these interactions; including how to gather, validate, and utilize the data needed for troubleshooting; (4) train them to know the criteria to be considered for identifying the best solution when several feasible solutions are available; as well as train them to know the typical causes of problems, and their solutions, for the main types of production and processing units and equipment used in the upstream and midstream oil and gas industry.

Training Delivery Approaches

The training will involve the use of multiple delivery approaches including: (1) Specialist Instructors from industry and academia who are experienced professionals and subject matter experts with deep and practical knowledge; (2) Case Studies that analyzes real-world scenarios to apply learned techniques; (3) High-Fidelity Dynamic Simulators for practicing troubleshooting and rectification techniques in a simulated environment; (4) Computer-Based e-Learning Tutorials and Hands-On Exercises to gain theoretical knowledge and practical experience through interactive sessions; (5) Software Utilization for analysis and reporting; and (6) Documentation of the troubleshooting and rectification activities.

Target Audience

- Plant Engineers and Process System Managers
- Section Engineers and Planners
- Maintenance and operations managers
- Process engineers
- Facilities Engineers
- Facilities engineering team leaders and supervisors
- Senior facilities operational personnel.
- Operations and Maintenance Personnel
- Engineering and Technical Managers and Supervisors from the oil and gas industry
- Maintenance Planners and Coordinators
- Operations and Manufacturing Managers and Supervisors

Organizational and Personal Impact

Organizational Impact on the performance of the production and processing systems will become evident within days after full attendance of the training course. This will be reflected in many aspects such as well-informed decision-making and optimized operational processes. The personal impact on the delegates will include improved situational awareness, empowerment, clarity, certainty, confidence, and a results driven focus.

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Daily Agenda and Course Content

Day One:

Troubleshooting and rectification problems and issues in upstream production and processing units, facilities and equipment I

- Troubleshooting and rectification fundamentals: root cause analysis; condition monitoring; corrective maintenance procedures; and predictive maintenance;
- Upstream production-specific and process-specific troubleshooting;
- Trouble quantification, and well performance analysis;
- Data gathering, validation, utilization, and reconciliation;
- Process control automation;
- Normal operations, startup operations and shutdown operations;
- Safety systems including shutdown hierarchy, detectors and voting system;
- Controlled and operating variables: reservoir composition; well feed rate; stage temperature; separator interface level; separator pressure; compressor temperature and pressure; amine concentration; amine solution circulation rate; glycol contactor temperature and pressure; glycol circulation rate; and glycol concentration.

Day Two:

Troubleshooting and rectification problems and issues in upstream production and processing units, facilities and equipment II

- Troubleshooting and rectification problems: hydrate formation; foaming and foam formation prevention; corrosion; compressor fouling; poor amine absorber performance; glycol system problems; and emulsions, wax and asphaltenes issues.
- NGL extraction/recovery processes (gas plant) and fractionation unit operations;
- Three-phase, and two-phase gas-liquid separators;
- Amine gas sweetening units;
- Glycol and molecular sieve dehydration units;
- Centrifugal pumps;

- Oil treating, desalting, stabilization, sweetening, oil storage and vapour recovery systems;
- Produced water treating and injection systems; and sand control;
- Reciprocating and centrifugal compressors; and shell and tube heat exchangers.

Certification

On successful completion of this Classroom and Online Training Course, a Certificate/E-Certificate endorsed by one of the largest energy workforce solution providers in the United States of America (USA), will be awarded to the delegates.

Additional international certification can be awarded subject to a successful certification examination and the payment of a small consulting and facilitation fee.

Course Participation Opportunities, Benefits and Perks

1. ***You will become a World-Class Industry Expert in Troubleshooting and Rectifying Oil and Gas Production and Processing Systems***

2. ***You will receive a certificate of achievement endorsed by one of the largest energy workforce solutions providers in the United States of America (USA)***

3. ***You will get a chance to gain additional international certification with help and support of training organizers.***

4. ***You will be granted free attendance to the 2-Day, top-tier natural gas industry conference – EINGICE 2025.***

5. ***You will be granted free accommodation for 4 nights in Abuja during the 2-Day professional training short course and during the 2-Day conference.***

6. ***You will be granted free three-course meal during lunch break for 4 days in Abuja during the 2-Day training and during the 2-Day conference.***

Training Short Course Fee

Classroom/In-Person: N650,000

Online/Virtual: N500,000

Registration and Payment Information

Register and pay for this training via the following link:

https://forms.gle/1qGuiCb6MhLuQ6K36

Forward evidence of payment to:

eingice-training@eingice.org

Additional Information

For additional information or clarification, send email to:

eingice-training@eingice.org