



COURSE OVERVIEW PE0356 Certified Oil & Gas Pipeline Operator

Course Title

Certified Oil & Gas Pipeline Operator

Course Date/Venue

October 06-10, 2024/Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA

Course Reference

PE0356

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs



Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.



This course is designed to provide participants with a detailed and up-to-date overview of certified oil and gas pipeline operator. It covers the fundamentals of pipeline network operations and locate all collection and distribution networks; the network layout and philosophy; the various types of networks including LP rich gas network, HP rich gas network, condensate, HP lean gas/fuel, LP lean gas/fuel, HFO and gas oil network; the various types of valves, drip barrels and troubleshooting of valves; and the basics of network operations, manual network operation and control as well as guidelines for the definition of gas gathering lines.



During this interactive course, participants will learn the sludge catcher operations, pre/post start-up procedures, purge-in/purge-out procedures, gas utilization options and techniques; the pipelines and operational needs as well as the oil and gas fluid transport properties; the flaring and assess the need to flare, overprotection devices as well as different types and applications of flares; and operating, maintaining, monitoring, and controlling flare in a safely manner.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Get certified as a “*Certified Oil & Gas Pipeline Operator*”
- Discuss the fundamentals of pipeline network operations and locate all collection and distribution networks
- Recognize network layout and philosophy and identify the various types of networks including LP rich gas network, HP rich gas network, condensate, HP lean gas/fuel, LP lean gas/fuel, HFO and gas oil network
- Enumerate the various types of valves, drip barrels and troubleshooting of valves
- Carryout basics of network operations, manual network operation and control as well as guidelines for the definition of gas gathering lines
- Employ sludge catcher operations, pre/post start-up procedures, purge-in/purge-out procedures, gas utilization options and techniques
- Identify pipelines and operational needs as well as the oil and gas fluid transport properties
- Define flaring and assess the need to flare, overprotection devices as well as different types and applications of flares
- Operate, maintain, monitor, and control flare in a safely manner

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials course conveniently saved in a **Tablet PC**.

Who Should Attend

This course is intended for oil and gas field operations staff including SCADA and pipeline operations team.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Practical Workshops & Work Presentations

30% Hands-on Practical Exercises & Case Studies

20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

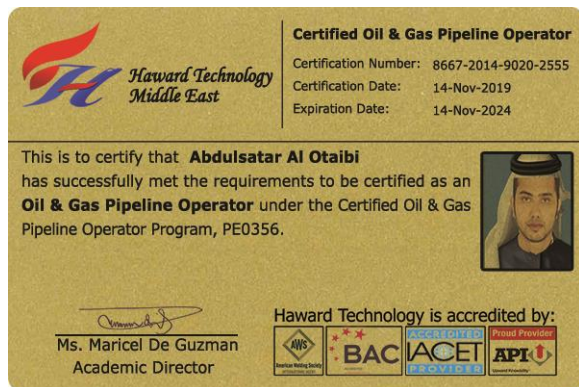
Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Successful candidate will be certified as a “*Certified Oil & Gas Pipeline Operator*”. Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-





- (2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course

Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEUs

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CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-19

HTME No.: 8667-2014-9020-2655

Participant Name: Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
PE0356	Certified Oil & Gas Pipeline Operator	November 10-14, 2019	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Maricel De Guzman
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2013 Standard.


Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Association for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology is accredited by

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | Fax: +971 2 3091 716 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations


Certificates are accredited by the following international accreditation organizations: -

- 
The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology’s courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units (CEUs)** in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant’s involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant’s CEU and PDH Transcript of Records upon request.

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British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

Course Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.



Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Karl Thanasis, PEng, MSc, MBA, BSc, is a **Senior Engineer** with over **30 years** of practical experience within the **Oil, Gas, Refinery** and **Petrochemical** industries. His wide expertise includes **Process Plant** Optimization Technology & Continuous Improvement, **Process Engineering Calculations**, **Process Plant** Start Up & Commissioning, Applied **Process Engineering** Elements, **Coke Cooler**, **Process Plant** Start-up & Commissioning, **Process Plant** Troubleshooting, **Operations Abnormalities & Plant Upset**, **Process Equipment** Applications & Troubleshooting, **Process Plant** Performance & Efficiency, **Gas Sweetening & Sulphur Recovery**, **Distillation-Column** Control & Troubleshooting, **Oil Movement & Troubleshooting**, **Process Plant** Operations & Control, **Process Equipment** Operation, **Fired Heaters & Air Coolers** Maintenance, **Heat Exchangers**, **Pumps & Compressors**, **Crude Desalter**, **Pressure Vessels & Valves**, **Steam Trapping & Control**, **Pumps & Valve** Maintenance & Troubleshooting, **Turbomachinery**, **Mechanical Alignment**, **Rotating Equipments**, **Diesel Generators**, **Lubrication** Technology, **Bearing**, **Predictive & Preventive** Maintenance, **Root Cause Analysis**, **Boilers**, **Oil Field** Operation, **Production** Operation, **Plant** Operation & Commissioning, **Crude Oil De Salting** Process, **Gas Conditioning**, **NGL Recovery & NGL Fractionation**, **Flare** System, **Storage Tanks**, **Oil Recovery** System and **Chemical Injection**.

Mr. Thanasis has acquired his thorough and practical experience as the **Project Manager**, **Plant Manager**, **Area Manager - Equipment Construction**, **Construction Superintendent**, **Project Engineer** and **Design Engineer**. His duties covered **Plant Preliminary Design**, **Plant Operation**, **Write-up of Capital Proposal**, **Investment Approval**, **Bid Evaluation**, **Technical Contract Write-up**, **Construction** and **Sub-contractor Follow up**, **Lab Analysis**, **Sludge Drying** and **Management of Sludge Odor** and **Removal**. He has worked in various companies worldwide in the **USA**, **Germany**, **England** and **Greece**.

Mr. Thanasis is a **Registered Professional Engineer** in the **USA** and **Greece** and has a **Master** and **Bachelor** degrees in **Mechanical Engineering** with **Honours** from the **Purdue University** and **SIU** in **USA** respectively as well as an **MBA** from the **University of Phoenix** in **USA**. Further, he is a **Certified Internal Verifier/Trainer/Assessor** by the **Institute of Leadership & Management (ILM)** and a **Certified Instructor/Trainer**.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Sunday, 06th October 2024

0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	Pipeline Network Fundamentals & Operation Network Layout and Philosophy
0930 - 0945	Break
0945 - 1100	Pipeline Network Fundamentals & Operation (cont'd) Types of Networks (LP Rich Gas Network, HP Rich Gas Network, Condensate, HP Lean Gas/Fuel, LP Lean Gas/Fuel)
1100 - 1230	Pipeline Network Fundamentals & Operation (cont'd) HFO (Heavy Fuel Oil) • Gas Oil Network
1230 - 1245	Break
1245 - 1420	Pipeline Network Fundamentals & Operation (cont'd) Types of Valves (MOV, GOV, AOV)
1420 - 1430	Recap
1430	Lunch & End of Day One

Day 2: Monday, 07th October 2024

0730 - 0930	Pipeline Network Fundamentals & Operation (cont'd) Types of Drip Barrels & Troubleshooting of Valves
0930 - 0945	Break
0945 - 1100	Pipeline Network Fundamentals & Operation (cont'd) Basics of Network Operations (Isolation, Purge, De-Pressurize & Pressurize)
1100 - 1215	Pipeline Network Fundamentals & Operation (cont'd) Manual Network Operation & Control
1215 - 1230	Break
1230 - 1420	Pipeline Network Fundamentals & Operation (cont'd) Guidelines for the Definition of Gas Gathering Lines
1420 - 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 08th October 2024

0730 - 0930	Pipeline Network Fundamentals & Operation (cont'd) Sludge Catcher Operations
0930 - 0945	Break
0945 - 1100	Pipeline Network Fundamentals & Operation (cont'd) Pre/Post-Startup Procedures
1100 - 1215	Pipeline Network Fundamentals & Operation (cont'd) Purge-In/Purge-Out Procedures
1215 - 1230	Break
1230 - 1420	Pipeline Network Fundamentals & Operation (cont'd) Gas Utilization Options & Techniques
1420 - 1430	Recap
1430	Lunch & End of Day Three



Day 4: Wednesday, 07th October 2024

0730 - 0930	Basic Understanding of Pipelines & Operational Needs
0930 - 0945	Break
0945 - 1100	Introduction to Oil & Gas Fluid Transport Properties
1100 - 1215	Flaring Definition and Need to Flare
1215 - 1230	Break
1230 - 1420	Flaring (cont'd) Overprotection Devices
1420 - 1430	Recap
1430	Lunch & End of Day Four

Day 5: Thursday, 08th October 2024

0730 - 0930	Flaring (cont'd) Different Types & Applications of Flares
0930 - 0945	Break
0945 - 1100	Flaring (cont'd) Flare Operation, Maintenance & Monitoring
1100 - 1200	Flaring (cont'd) Flare Safety
1200 - 1215	Break
1215 - 1300	Flaring (cont'd) Flaring Control
1300 - 1315	Course Conclusion
1315 - 1415	COMPETENCY EXAM
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org

