## COURSE OVERVIEW FE0990

# Equipment, Materials, Production and Services Certification Auditor in Oil & Gas Industry

**Course Title**

Equipment, Materials, Production and Services Certification Auditor in Oil and Gas Industry

**Course Date/Venue**

Session 1: August 11-15, 2024/Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey

Session 2: November 10-14, 2024/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

**Course Reference**

FE0990

**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 the Equipment, Materials, Production and Services Certification Auditor in Oil and Gas Industry. It covers the auditor's ethics, standards of conduct and personnel qualities; the audit program design and management, protocols, checklists and guides; the frequency of audits and selection of sites and quality assurance provisions; the auditor staffing and training and document management; the audit engagements covering pre-audit activities, on- site activities and post- audit activities; planning and conducting a site inspection and completing inspection reports; and developing recommendations and following-up and managing an effective inspection program.

During this interactive course, participants will learn the pre and post-inspection tasks, gathering information, recording observations accurately and developing and using checklists in continuous and formal inspections; handling employee reactions to the inspection process; analyzing data and setting priorities and observation techniques; the various standards and codes in process industry comprising of API, ASME, ASTM, ANSI, AWS, NBIC and ISO; and the proper inspection, auditing and certification methods for visual inspection destructive inspection and NDT certification.

## Course Objectives

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

- Apply and gain an in-depth knowledge on equipment, materials, production and services certification auditor in oil and gas industry
- Discuss the auditor's ethics, standards of conduct and personnel qualities
- Carryout audit program design and management, protocols, checklists and guides
- Identify the frequency of audits and selection of sites and quality assurance provisions
- Perform auditor staffing and training and document management
- Conduct the audit engagements covering pre-audit activities, on- site activities and post- audit activities
- Plan and conduct a site inspection, complete inspection reports, develop recommendations and follow-up and manage an effective inspection program
- Establish pre and post-inspection tasks, gather information, record observations accurately and develop and use checklists in continuous and formal inspections
- Handle employee reactions to the inspection process, analyze data and set priorities and apply observation techniques
- Review various standards and codes in process industry comprising of API, ASME, ASTM, ANSI, AWS, NBIC and ISO
- Employ proper inspection, auditing and certification methods for visual inspection, destructive inspection and NDT certification, documentations and verification
- Apply materials, equipment, production and services inspection, auditing and certification

## Who Should Attend

This course provides an overview of all significant aspects and considerations of equipment, materials, production and services certification auditing in oil and gas industry for quality assurance professionals, certification auditors, engineers and technicians, procurement and supply chain professionals, HSE (health, safety, and environment) personnel, project managers, regulatory compliance officers, quality control inspectors, operations and maintenance personnel, consultants and advisors.

## 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. 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)

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## CEU Official Transcript of Records

**TOR Issuance Date:** 14-Nov-19

**HTME No.** 8667-2014-9020-2555

**Participant Name:** Abdulsatar Al Otaibi

| Program Ref. | Program Title | Program Date | No. of Contact Hours | CEU's |
|---|---|---|---|---|
| FE0990 | Equipment, Materials, Production and Services Certification Auditor in Oil and Gas Industry | 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

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**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.

- 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 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. Geoff Kaschula** is a **Senior Inspection Engineer** with over **30 years** of extensive experience within the **oil**, **gas**, **petrochemical**, **process** and **power industries**. His fields of specialization cover the areas of **design**, **fabrication**, **construction**, **installation**, **commissioning**, **inspection** & **maintenance** of **process equipment** such as **boilers**, **pressure vessels**, **piping systems**, **structures** & **storage tanks**; **condition assessment** of rotating & auxiliary equipment like **compressors**, **steam turbines**, **pumps**, **heat exchangers** & **valves**; Risk Based Inspection (**RBI**), Fitness-For-Service (**FFS**); **welding** & **fabrication engineering**, **failure analysis**, flaw evaluation, remnant life determination, capacity reviews for process and power equipment, asset management and project management. He has also worked extensively with international industry standards such as **ASME**, **API**, **TEMA**, **BS/EN**, **ANSI** & **AWS** to name a few. Mr. Kaschula is currently the **Director** of **RBI-Asset Management**.

Mr. Kaschula has handled wide-ranging responsibilities and assumed various important positions over the past 30 years in his career. Prior to founding his own company, he was the **Quality Manager** of **Parsons Brinckerhoff**, a power company, where he handled **design verification** of equipment such as boilers, pressure equipment, heat exchangers & pumps in addition to the overall development of management systems in compliance with **international safety**, **quality** and **technical standards**. He also worked as the **Inspection Manager** of **Weltech** where he was in charge of all major **inspection activities** and **plant condition evaluation** of **petrochemical plants** and **power stations**. He also worked extensively as a **Project Manager** for the design, fabrication and manufacturing of pressure vessels, heat exchangers and piping in accordance with **ASME** III & VIII standards. He also served as **Technical Assessor**, **Inspection Engineer**, **Welding Engineer** and **QA/QC Engineer** for companies like Arnot & Hendrina Power Station, Projects Expedited, Airtech Davidson & the Department of Transport. As the current **Director** of **RBI-Asset Management**, he oversees the overall operations of the company in providing technical and advisory services in the field of infrastructure asset management, design review, verification, inspection and condition assessment of major refinery equipment such as pressure vessels, storage tanks and piping systems.

Mr. Kaschula is a qualified **Welding Engineer**. He is also a **certified API 510 Pressure Vessel Inspector**, **certified API 570 Piping Inspector**, **certified API 580 Risk Based Inspector**, a **Registered Inspector** & **Competent Person** for Boilers, Pressure Vessels & Pressure Equipment as well as a **Registered International Professional Welding Technologist** by the International Institute of Welding (**IIW**) and a **Certified Instructor/Trainer**.

## Course Fee

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| Istanbul | **US$ 6,000** per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day. |
| Dubai | **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. |

## 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***

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| *0730 – 0800* | *Registration & Coffee* |
| *0800 – 0815* | *Welcome & Introduction* |
| *0815 – 0830* | ***PRE-TEST*** |
| *0830 – 0930* | ***Auditor's Ethics, Standards of Conduct & Personnel Qualities***<br>*Conflict of Interest ● Independence ● Proficiency ● Material Facts and Disclosure ● Due Professional Care ● Confidentiality ● Attitude ● Teamwork ● Adaptability ● Determination ● Communications ● Leadership* |
| *0930 – 0945* | *Break* |
| *0945 – 1100* | ***Audit Program Design & Management***<br>*Audit Program Objectives and Scope ● Audit Program Organization ● Protocols, Checklists and Guides ● Frequency of Audits and Selection of Sites ● Quality Assurance Provisions ● Auditor Staffing and Training ● Document Management* |
| *1100 – 1215* | ***Conducting Audit Engagements: (1) Pre-Audit Activities***<br>*Establishment of Audit Scope and Objectives and their Communication to Interested Persons ● Assembly and Review of Available Information Pertinent to the Audit ● Preparation of the Audit Plan Directed at Efficient and Effective use of Resources to Achieve Audit Objectives* |
| *1215 – 1230* | *Break* |
| *1230 – 1420* | ***Conducting Audit Engagements: (1) Pre-Audit Activities (cont'd)***<br>*Contact with the Auditee to Exchange Information and Begin to lay the Groundwork for a Cordial and Productive Working Relationship ● Team Selection and Coordination to Assure that all Members are Capable and Prepared to Carry Out their Assigned Role ● Determination of Final Report Scope, Format and Distribution* |
| *1420 – 1430* | ***Recap***<br>*Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow* |
| *1430* | *Lunch & End of Day One* |

**Day 2**

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| 0730 – 0930 | ***Conducting Audit Engagements: (2) On-Site Activities***<br>*Opening Meeting ● Collecting Audit Evidence ● Development and Review of Findings ● Closing Meeting* |
| 0930 – 0945 | *Break* |
| 0945 – 1100 | ***Conducting Audit Engagements: (3) Post-Audit Activities***<br>*Reporting ● Documentation ● Corrective Action* |
| 1100 – 1215 | ***Site Inspection***<br>*Plan and Conduct a Site Inspection ● Complete Inspection Reports ● Develop Recommendations and Follow-Up ● Manage an Effective Inspection Program ● Establish Pre and Post-Inspection Tasks ● What to Inspect and where to Gather Information* |
| 1215 – 1230 | *Break* |
| 1230 – 1420 | ***Site Inspection (cont'd)***<br>*Recording Observations Accurately ● Developing and Using Checklists in Continuous and Formal Inspections ● Handling employee reactions to the inspection process ● Analyzing data and setting priorities ● Observation techniques* |
| 1420 – 1430 | ***Recap***<br>*Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow* |
| 1430 | *Lunch & End of Day Two* |

**Day 3**

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| 0730 – 0930 | ***Standards & Codes in Process Industry***<br>*API ● ASME ● ASTM ● ANSI ● AWS ● NBIC ● ISO* |
| 0930 – 0945 | *Break* |
| 0945 – 1100 | ***Inspection, Auditing & Certification Methods***<br>*Visual Inspection ● Destructive Inspection ● NDT* |
| 1100 – 1215 | ***Inspection, Auditing & Certification Methods (cont'd)***<br>*Certification ● Documentations ● Verification* |
| 1215 – 1230 | *Break* |
| 1230 – 1420 | ***Materials Inspection, Auditing & Certification***<br>*Overview of Ferrous Pipe and Pipeline Materials ● Carbon and Alloy Steels ● Practical Aspects of Metallurgical Properties* |
| 1420 – 1430 | ***Recap***<br>*Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow* |
| 1430 | *Lunch & End of Day Three* |

**Day 4**

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| 0730 – 0930 | ***Materials Inspection, Auditing & Certification (cont'd)***<br>*Chemistry and Material Test Reports ● Fabrication of Line Pipe and Forged Fittings* |
| 0930 – 0945 | *Break* |
| 0945 – 1100 | ***Materials Inspection, Auditing & Certification (cont'd)***<br>*Mechanical Properties: Strength and Toughness ● Ductile and Brittle Fracture* |

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| *1100 – 1215* | ***Materials Inspection, Auditing & Certification (cont'd)***<br>*API 5L and ASTM Material Specifications ● Markings on Pipe and Fittings* |
| *1215 – 1230* | *Break* |
| *1230 – 1420* | ***Equipment Inspection, Auditing & Certification***<br>*Pipes ● Fitting ● Valves ● Pressure Vessels ● Boilers ● Tanks ● Heat Exchangers* |
| *1420 – 1430* | ***Recap***<br>*Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow* |
| *1430* | *Lunch & End of Day Four* |

***Day 5***

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| *0730 – 0930* | ***Equipment Inspection, Auditing & Certification (cont'd)***<br>*Pumps ● Compressors ● Turbines ● Motors* |
| *0930 – 0945* | *Break* |
| *0945 – 1100* | ***Equipment Inspection, Auditing & Certification (cont'd)***<br>*VFD ● Gears ● Machinery vs. Stationery Equipment* |
| *1100 – 1215* | ***Production Inspection, Auditing & Certification***<br>*Inspection ● Auditing ● Certification* |
| *1215 – 1230* | *Break* |
| *1230 - 1345* | ***Services Inspection, Auditing & Certification***<br>*Inspection ● Auditing ● Certification* |
| *1345 – 1400* | ***Course Conclusion***<br>*Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course* |
| *1400 – 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

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