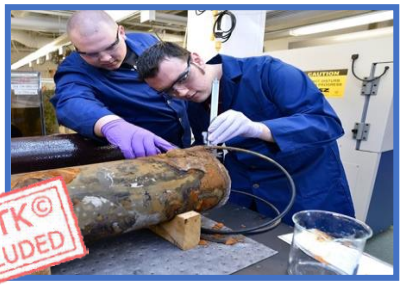
COURSE OVERVIEW FE0630
Material Certification Management

Course Title
Material Certification Management

Course Reference
FE0630

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs



Course Date/Venue

Session(s)	Date	Venue
1	August 12-16, 2024	Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
2	November 10-14, 2024	Al Aziziya Hall, The Proud Hotel Al Khobar, Al Khobar, KSA

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 knowledge in material processing, heat treatment, material selection, metallurgy, material defects and material corrosion mechanisms; the material requisition as per standard requirements; the material management cycle; the materials in accordance with the international codes; & standards; the acceptance/rejection criteria during the inspection process; and the material certificates availability as per purchase order for materials received and complete "Certificates Receipt Reports" as per verification results ensuring that items with serial numbers, heat numbers, and traceability are arranged.

During this interactive course, participants will learn that the materials certification documents are properly scanned and, along with required information, entered into warehouse "Material Certificates Database" by provision of spot checks; the user departments on resolving material inspection and certification issues and complete "Certificates Issue Reports" as per user department requests for materials; the "Transfer To Disposal" forms for user consideration; and ensuring that all rejected materials are segregated and kept in quarantine or disposal area in conjunction with Warehouse Supervisor.

Course Objectives

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

- Apply systematic techniques in material certification management
- Identify the physical, chemical and mechanical properties of different types of materials including metals (ferrous & non-ferrous), plastics and composite materials
- Demonstrate knowledge in material processing, heat treatment, material selection, metallurgy, material defects and material corrosion mechanisms
- Prepare material requisition as per standard requirements and discuss the material management cycle
- Inspect materials in accordance with the international codes & standards and distinguish the acceptance/rejection criteria during the inspection process
- Verify material certificates availability as per purchase order for materials received and complete "Certificates Receipt Reports" as per verification results ensuring that items with serial numbers, heat numbers, and traceability are arranged
- Ensure that the materials certification documents are properly scanned and, along with required information, entered into warehouse "Material Certificates Database" by provision of spot checks
- Communicate with user departments on resolving material inspection and certification issues and complete "Certificates Issue Reports" as per user department requests for materials
- Complete "Transfer To Disposal" forms for user consideration and ensure that all rejected materials are segregated and kept in quarantine or disposal area in conjunction with Warehouse Supervisor

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, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of material certification management for senior certificate management engineers, certificate management engineers, certificate management technicians, inspection engineers and material control engineers and management.

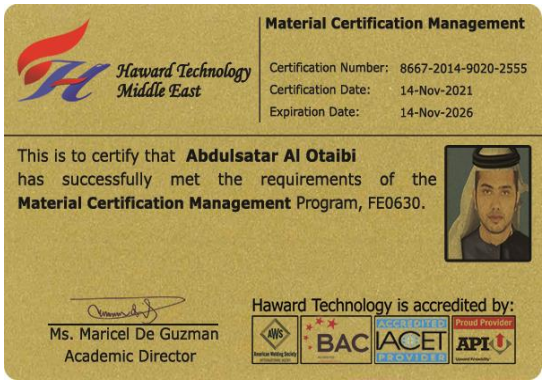
Course Certificate(s)

Internationally recognized Wall Competency Certificates and Plastic Wallet Card Certificates 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:-



(1) 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-21

HTME No. 8667-2014-9020-2555

Participant Name: Abdulsatar Al Otaibi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
FE0630	Material Certification Management	November 10-14, 2021	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 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:

Dr. Tony Dimitry, PhD, MSc, BSc, is a **Senior Corrosion & Metallurgical Engineer** with over **30 years** of industrial experience. His expertise covers **Corrosion** Prevention, **Cathodic Protection** Systems, **Corrosion Control**, **Corrosion Inhibition**, **Corrosion** Management in Process Operations, **Corrosion** Engineering, **Metallurgical** Failure Analysis & Prevention, **Fabrication & Repair**, **Corrosion** & Prevention of Failures, **Material** Selection, **Welding** Technology, **Welding Defects** Analysis, **Brazing/Soldering**, **Steel Manufacturing**, **Facility Integrity**, **Ladle Furnace Treatment**, **Ferro-Alloys Production**, **Tank Farm & Tank Terminal Safety**, Integrity Management, Fitness-for-Service (**FFS**), Process Plant Equipment, **Pressure Vessels**, **Piping & Storage Facilities**, Piping **Vibration** Analysis & Practical Engineering Solutions, Remaining Life Assessment & Repair of **Pressure Equipment & Piping**, **Pipeline** Operations & Maintenance, Gas Transportation Piping Code, **Maintenance** Management, **Reliability** Management, **Rotating Equipment**, **Static Equipment**, **Failure Analysis**, **FMEA** and **Preventive & Predictive** Maintenance. Currently, he is in charge of the **metallurgical failure analysis** and the usage of fracture mechanics for determining crack propagation in impellers of turbines.

During his career life, Dr. Dimitry held a significant positions such as the **Operations Engineers**, **Technical Trainer**, **HSE Contracts Engineer**, **Boilers Section Engineer**, **Senior Engineer**, **Trainee Mechanical Engineer**, **Engineer**, **Turbines Section Head**, **Professor**, **Lecturer/Instructor** and **Teaching Assistant** from various multinational companies like **Chloride Silent Power Ltd.**, **Technical University of Crete**, **National Nuclear Corporation**, **UMIST Aliveri Power Station** and **HFO Fired Power Station**.

Dr. Dimitry has a **PhD**, **Master's** and **Bachelor's** degrees in **Mechanical Engineering** from the **Victory University of Manchester** and the **University of Newcastle**, **UK** respectively. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and an associate member of the American Society of Mechanical Engineers (**ASME**) and Institution of Mechanical Engineers (**IMechE**). He has further delivered various trainings, seminars, courses, workshops and conferences internationally.

Accommodation

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

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 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

0730 - 0800	*Registration & Coffee*
0800 - 0815	*Welcome & Introduction*
0815 - 0830	***PRE-TEST***
0830 - 0930	***Physical Properties of Material***
0930 –0945	*Break*
0945 – 1030	***Chemical Properties of Materials***
1030 – 1130	***Mechanical Properties of Material***
1130 - 1230	***Material Classification***
1230 - 1245	*Break*
1245 – 1420	***Ferrous Metal***
1420 - 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0900	***Non-Ferrous Metals***
0900 - 0930	***Plastic & Composite Material***
0930 - 0945	*Break*
0945 - 1200	***Material Processing & Heat Treatment***
1200 - 1230	***Material Selection***
1230 - 1245	*Break*
1245 - 1345	***Metallurgy Overview***
1345 - 1420	***Material Inherent Defects***
1420 - 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0900	***Material Defects During Fabrication***
0900 - 0930	***Material Defects Due to Service***
0930 - 0945	*Break*

0945 - 1200	***Corrosion Mechanism***
1200 - 1230	***Making Material Requisition as per Standard & Code Requirements***
1230 - 1245	*Break*
1245 - 1345	***Material Management Cycle***
1345 - 1420	***Material Inspection as per Codes & Standards***
1420 - 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Acceptance/Rejection Criteria as per Material Code***
0830 – 0900	***Material Test Certificate Review***
0900 - 0930	***Material Loading***
0930 - 0945	*Break*
1045 – 1130	***Material Receiving Report***
1130 - 1230	***Material Certificate Verification***
1230 - 1245	*Break*
1245 - 1420	***Certificate Receipt Report***
1420 - 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0830	***Material Certificates Database***
0830 – 0900	***Resolving Material Inspection & Certification Issues***
0900 - 0930	***Certificate Issue Report***
0930 - 0945	*Break*
1045 - 1230	***Transfer to Disposal Forms***
1230 - 1230	***Material Rejection & Segregation Procedures***
1230 - 1245	*Break*
1245 - 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