

COURSE OVERVIEW LE0315-1D **Refresher Water Sampling**

Course Title

Refresher Water Sampling

Course Date/Venue

October 30, 2026/TBA Meeting Room,
InterContinental Abu Dhabi, Abu Dhabi, UAE

Course Reference

LE0315-1D

Course Duration/Credits

One day/0.6 CEUs/06 PDHs



Course Description

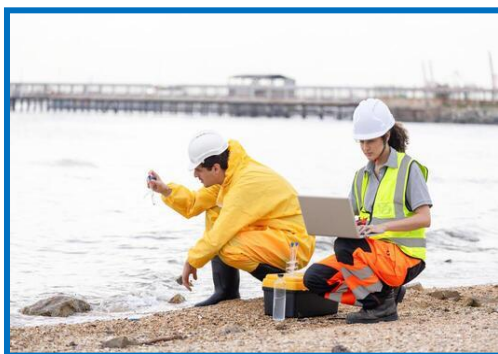


This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Water Sampling. It covers the importance of water sampling in water quality monitoring and compliance; the physical, chemical and microbiological water quality parameters; the sampling plans, sampling locations and representative sampling requirements; the selection of appropriate sampling bottles, containers and sampling equipment; preparing, inspecting, cleaning and calibrating sampling equipment; and the pre-sampling checklists, sample identification and documentation requirements.



During this interactive course, participants will learn the sampling techniques, sampling procedures and prevention of cross-contamination, sample handling errors and sampling inconsistencies; the sample preservation methods for chemical and microbiological analysis; the proper sample labelling, chain of custody and traceability procedures; the quality assurance and quality control (QA/QC) requirements in water sampling, occupational health & safety precautions, personal protective equipment (PPE) and hazard identification; the practical demonstration of correct water sampling procedures and equipment handling; and the identification and correction of common sampling mistakes, contamination risks and non-conformities.



Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain a fundamental knowledge on water sampling
- Discuss the importance of water sampling in water quality monitoring and compliance including physical, chemical and microbiological water quality parameters
- Review sampling plans, sampling locations and representative sampling requirements and select appropriate sampling bottles, containers and sampling equipment
- Prepare, inspect, clean and calibrate sampling equipment and identify pre-sampling checklists, sample identification and documentation requirements
- Carryout proper sampling techniques, sampling procedures and prevention of cross-contamination, sample handling errors and sampling inconsistencies
- Review sample preservation methods for chemical and microbiological analysis and apply proper sample labelling, chain of custody and traceability procedures
- Apply quality assurance and quality control (QA/QC) requirements in water sampling, occupational health & safety precautions, personal protective equipment (PPE) and hazard identification
- Employ practical demonstration of correct water sampling procedures and equipment handling
- Identify and correct common sampling mistakes, contamination risks and non-conformities

Exclusive Smart Training Kit - H-STK®



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

Who Should Attend

This course provides an overview of all significant aspects and considerations of water sampling for environmental scientists and environmental engineers, water and wastewater treatment engineers, water treatment plant operators and supervisors, HSE officers involved in water sampling activities, water sampling technicians & field sampling personnel.

Accommodation

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

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

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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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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.

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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 **0.6 CEUs** (Continuing Education Units) or **06 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.

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. Yousef Al-Mashni, PhD, MSc, BSc, is an **International Expert in Analytical Laboratory & Waste Water Treatment** with over **30 years** of extensive experience. He is an **authority in Water and Waste Water Treatment, Water Quality Management, Hydraulic Network System, Water Pipeline System, Water Distribution System, Industrial Water Management, Industrial Water Management, Water Analysis & Reporting, Water Sampling & Testing, Water Analyzer, Helmith Ova & Salmonella in Waste Water, Sludge, Microbiological Aspects & Analysis of Wastewater, Laboratory Equipment, Laboratory Quality Management Systems (ISO 17025 and ISO 15189), Lab Safety & Health, Good Laboratory Practice (GLP) and Safety Procedure in Laboratories**. His wide expertise also covers, **Medical Laboratory Auditing, ISO 15489, Infection Control, Internal Quality Control for Microbiologists, Analytical Techniques, Biochemical, Hematological, Parasitological, Biochemical, Microbiological & Serological Analysis of Clinical Specimens, Microbiology of Wetlands, Microbiological Indoor Air Quality, Entrococcus, Pseudomonas & Aeromonas, Sulfate Reducing Bacteria, Fluorescence Microscopy, Planktology of Ambient Environment, Oral, Medical & Diagnostic Microbiology and Oral & Dental Hygiene**. He is currently the **Deputy Principal & Chief Technical Instructor of UNRWA** wherein he is responsible in developing and managing operations at the college/centre including building workshops and laboratories capacity, curriculum development and introducing new courses.

During his long career life, Dr. Yousef worked for many international companies handling key positions such as **ICDL Centre Manager, Deputy Principal, Chief Technical Instructor, Acting Principal, Laboratory Supervisor, Technical Instructor, Technical & Vocational Instructor, Senior Medical Laboratory Technician and Medical Laboratory Technician**.

Dr. Yousef has a **PhD degree in Natural Health Sciences** from the **University of Florida (USA)**, **Master degree in Clinical Microbiology** and **Bachelor degree with Honours in Microbiology**. Further, he has **Diploma in Vocational Education (UNRWA & UNESCO)** and received several **certifications** like **ICDL** and **Training of Trainers (TOT)** in **Cambridge University (England)**. He is an active **member of Jordan Medical Laboratories Society, Technical Accreditation Committee of Medical Laboratories (Jordan Institution & Metrology)** and the **Technical Accreditation Committee for Granting ISO 15189 Certificate**. Furthermore, he has also published numerous technical papers and books including **Medical & Diagnostic Microbiology, Practical Competencies in Medical Laboratory Technology, Safety in Medical Laboratory Science** and **Quality Control in Medical Laboratory Science** just to name a few.

Training Methodology

Our courses employ an interactive, learner-centred methodology that integrates theoretical knowledge with practical application. The training is delivered through a suitable combination of some or all of the following methods, selected according to the course content and learning objectives:

- Instructor-led presentations and facilitated discussions
- Practical workshops and participant presentations
- Hands-on exercises and real-world case studies
- Equipment demonstrations and technical drawings
- Hardware- and software-based simulations
- Gamification & Role Play in soft-skills courses only
- Virtual Reality (VR) and Augmented Reality (AR)
- Instructional videos and other relevant training resources

This blended approach encourages active participation, strengthens practical skills and supports the effective application of acquired knowledge in the workplace.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Course Fee

US\$ 1,750 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

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: Friday, 30th of October 2026

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0900	Review of Water Sampling Fundamentals & Principles Importance of Water Sampling in Water Quality Monitoring & Compliance • Review of Water Sampling Objectives, Sampling Types & Sampling Frequencies • Overview of Physical, Chemical & Microbiological Water Quality Parameters • Common Sampling Errors, Sources of Contamination & Lessons Learned
0900 – 0930	Water Sampling Planning, Preparation & Equipment Review of Sampling Plans, Sampling Locations & Representative Sampling Requirements • Selection of Appropriate Sampling Bottles, Containers & Sampling Equipment • Preparation, Inspection, Cleaning & Calibration of Sampling Equipment • Pre-Sampling Checklists, Sample Identification & Documentation Requirements
0930 – 0945	Break



0945 – 1100	Refresher on Water Sampling Techniques & Best Practices Proper Sampling Techniques for Potable Water, Raw Water & Treated Water • Grab Sampling, Composite Sampling & Representative Sample Collection • Sampling Procedures from Pipelines, Storage Tanks, Distribution Networks & Reservoirs • Prevention of Cross-Contamination, Sample Handling Errors & Sampling Inconsistencies
1100 – 1200	Sample Preservation, Handling, Storage & Transportation Review of Sample Preservation Methods for Chemical & Microbiological Analysis • Sample Container Selection, Preservation Requirements & Holding Times • Proper Sample Labelling, Chain of Custody & Traceability Procedures • Sample Storage, Temperature Control, Transportation & Laboratory Handover Requirements
1200 – 1215	Break
1215 – 1300	Water Sampling Quality Assurance, Quality Control & Safety Review of Quality Assurance & Quality Control (QA/QC) Requirements in Water Sampling • Field Quality Control Samples, Blanks, Duplicates & Sampling Accuracy Verification • Occupational Health & Safety Precautions, Personal Protective Equipment (PPE) & Hazard Identification • Compliance with Applicable Water Quality Standards, Standard Operating Procedures (SOPs) & ISO/IEC 17025 Principles
1300 - 1345	Practical Water Sampling Refresher & Troubleshooting Practical Demonstration of Correct Water Sampling Procedures & Equipment Handling • Identification & Correction of Common Sampling Mistakes, Contamination Risks & Non-Conformities • Review of Real-World Water Sampling Scenarios, Troubleshooting Exercises & Corrective Actions
1345 – 1400	Course Conclusion Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course
1400 – 1415	POST-TEST
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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