

COURSE OVERVIEW LE0145 Laboratory Information Management System (LIMS)

o CEUs

30 PDHs)

Course Title

Laboratory Information Management System (LIMS)

Course Reference

LE0145

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Date/Venue



Session(s)	Date	Venue
1	June 22-26, 2025	Olivine Meeting Room, Fairmont Nile City, Cairo, Egypt
2	August 10-14, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
3	November 02-06, 2025	Meeting Plus 9, City Centre Rotana, Doha Qatar
4	January 11-15, 2026	Safir Meeting Room, Divan Istanbul, Turkey
5	February 01-05, 2026	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Description







BAC

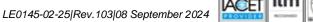
This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

The LIMS is an evolving concept, with new features and functionality being added often. As laboratory demands change and technological progress continues, the functions of a LIMS will likely also change. Despite these changes, a LIMS tends to have a base set of functionality that defines it. That functionality can roughly be divided into five laboratory processing phases, with numerous software functions falling under each.

This course is designed to provide participants with a detailed and an up-to date overview of laboratory information management system (LIMS). It covers the laboratory work flow and sample flow chart; the smart lab, lab automation and lab informatics; and the LIMS including its basic concept, evolution and trends.

Further, the course will discuss the various types and benefits of LIMS application, ELN, LES, SDMS and LIS; the LIMS environment, architecture and features; the proper selection of LIMS; the LIMS preparation, implementation and validation; and building LIMS efficiently.

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Course Objectives

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

- Apply and gain basic knowledge on Laboratory Information Management System (LIMS)
- Illustrate laboratory work flow and sample flow chart
- Discuss smart lab, lab automation and lab informatics
- Define LIMS including its basic concept, evolution and trends
- Identify the various types and benefits of LIMS application, ELN, LES, SDMS and LIS
- Describe LIMS environment, architecture and features
- Demonstrate and apply proper selection of LIMS
- Prepare, implement and validate LIMS in a professional manner
- Review various case studies pertaining to Southern Research Institute as well as build LIMS efficiently

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 conveniently saved in a **Tablet PC**.

Who Should Attend

This course provides an overview of all significant aspects and considerations of laboratory information management system (LIMS) for laboratory managers and staff who are involved in maintaining and using the laboratory information management system (LIMS).

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, Stateof-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.

Accommodation

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



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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

Certificates are accredited by the following international accreditation organizations:

• BAC 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.

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.

Course Fee

Cairo	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.
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.
Doha	US\$ 6,000 per Delegate. This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Istanbul	US\$ 6,000 per Delegate + VAT . This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.



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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. Dimitry Rovas, CEng, MSc, PMI-PMP, is a Senior Engineer & Analytical & Laboratory Consultant with extensive industrial experience in Oil, Gas, Power and Utilities industries. His expertise includes Chemical Sampling & Dosing & Lab Tests, Practical Problem Solving in Chemical Analysis, Advanced Chemical Sampling Techniques, Chemical Laboratory Operations, Process Analyzers & Analytical Chemistry, Planning/Budget of Lab Consumables, Modern Analytical Laboratory, Laboratory Quality Management, Laboratory Internal Audit, Laboratory Waste Disposal, Glass Reinforced Epoxy (GRE), Glass Reinforced Pipes

(GRP), Glass Reinforced Vent (GRV), Mechanical Pipe Fittings, Flange Joint Assembly, Adhesive Bond Lamination, Butt Jointing, Joint & Spool Production, Isometric Drawings, Flange Assembly Method, Fabrication & Jointing, Jointing & Spool Fabrication, Pipe Cuttings, Flange Bolt Tightening Sequence, Hydro Testing, Pump Technology, Pump Selection & Installation. Centrifugal Pumps & Troubleshooting, Reciprocating & Centrifugal Compressors, Compressor Control & Protection, Gas & Steam Turbines, Turbine Operations, Gas Turbine Technology, Valves, Bearings & Lubrication, Advanced Machinery Dynamics, Rubber Compounding, Elastomers, Thermoplastic, Industrial Rubber Products, Rubber Manufacturing Systems, Heat Transfer, Vulcanization Methods, Process Plant Shutdown & Turnaround, Maintenance Optimization & Best Practices, Maintenance Auditing & Benchmarking, Reliability Management, Rotating Equipment, Energy Conservation, Energy Loss Management in Electricity Distribution Systems, Energy Saving, Thermal Power Plant Management, Thermal Power Plant Operation & Maintenance, Heat Transfer, Machine Design, Fluid Mechanics, Heating & Cooling Systems, Heat Insulation Systems, Heat Exchanger & Cooling Towers, Mechanical Erection, Heavy Rotating Equipment, Material Unloading & Storage, Commissioning & Start-Up. Further, he is also well-versed in MS project & AutoCAD, EPC Power Plant, Power Generation, Combined Cycle Powerplant, Leadership & Mentoring, Project Management, Strategic Planning/Analysis, Construction Management, Team Formation, Relationship Building, Communication, Reporting and Six Sigma. He is currently the Project Manager wherein he is managing, directing and controlling all activities and functions associated with the domestic heating/cooling facilities projects.

During his life career, Mr. Rovas has gained his practical and field experience through his various significant positions and dedication as the EPC Project Manager, Maintenance Manager, Mechanical Engineer, Field Engineer, Preventive Maintenance Engineer, Lead Rotating Equipment Commissioning Engineer, Construction Commissioning Engineer, Offshore Lead Maintenance Engineer, Researcher, Instructor/Trainer, Telecom Consultant and Consultant from various companies such as the Mytilineos Aluminium Group, Podaras Engineering Studies, Metka and Diadikasia, S.A., Hellenic Petroleum Oil Refinery and COSMOTE.

Mr. Rovas is a **Chartered Engineer** of the **Technical Chamber** of **Greece**. Further, he has a **Master's** degree in **Mechanical Engineering** and **Energy Production & Management** from the **National Technical University of Athens**. Moreover, he is a **Certified Instructor/Trainer**, a **Certified Maintenance and Reliability Professional (CMRP)** from the Society of Maintenance & Reliability Professionals (SMRP), a **Certified Project Management Professional (PMP)**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and a **Certified Six Sigma Black Belt**. He is an active member of Project Management Institute (**PMI**), Technical Chamber of Greece and Body of Certified Energy Auditors and has further delivered numerous trainings, seminars, courses, workshops and conferences internationally.



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<u>Course Program</u> 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

Day		
0730 - 0800	Registration & Coffee	
0800 - 0815	Welcome & Introduction	
0815 - 0830	Initial Discussion & Brain Storming	
0830 - 0930	Laboratory Work Flow & Sample Flow Chart	
0930 - 0945	Break	
0945 - 1115	Smart Lab; Lab Automation & Lab Informatics	
1115 – 1230	What is a LIMS? The Basic Concept	
	LIMS Evolution & Trends	
1230 - 1245	Break	
1245 – 1420	Different Types of LIMS Application	
	<i>Benefits of LIMS</i> \bullet <i>ELN</i> \bullet <i>LES</i> \bullet <i>SDMS</i> \bullet <i>LIS</i>	
1420 - 1430	Recap	
1430	Lunch & End of Day One	

Dav 2

0730 – 0930	LIMS Environment
0930 - 0945	Break
0945 - 1115	LIMS Architecture
1115 – 1230	LIMS Feature
1230 - 1245	Break
1245 - 1420	LIMS Feature (cont'd)
1420 – 1430	Recap
1430	Lunch & End of Day Two

Dav 3

LIMS Feature (cont'd)	
Break	
Practical Sessions	
LIMS Demo	
Selection of Proper LIMS	
Break	
Selection of Proper LIMS (cont'd)	
Recap	
Lunch & End of Day Three	

Dav 4

Day 4	
0730 - 0930	How to Prepare for LIMS?
0930 - 0945	Break
0945 – 1115	How to Prepare for LIMS? (cont'd)
1115 – 1230	LIMS Implementation & Validation
1230 - 1245	Break
1245 - 1420	Case Study
1245 - 1420	Southern Research Institute
1420 - 1430	Recap
1430	Lunch & End of Day Four



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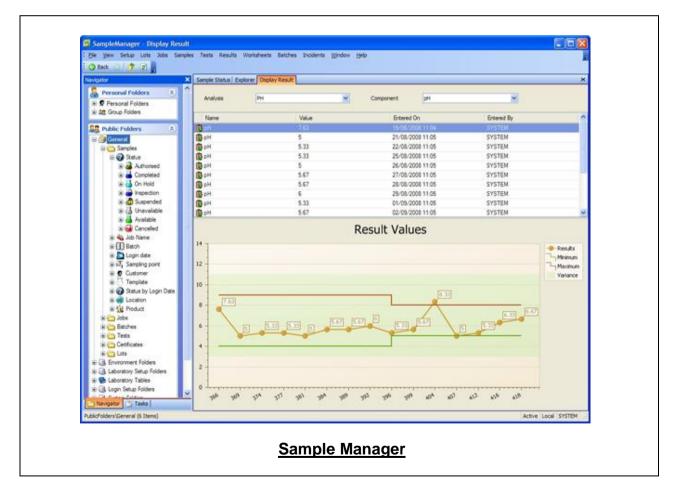


Day 5

0730 - 0930	Questions & Answers, Discussion
0930 - 0945	Break
0945 - 1215	Practical Sessions Building LIMS
1215 – 1230	Break
1230 - 1315	Practical Sessions (cont'd) Building LIMS (cont'd)
1315 - 1345	Practical Sessions (cont'd) Building LIMS (cont'd)
1345 - 1400	Course Conclusion
1400 - 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Simulator (Hands-on Practical Sessions)

Practical session will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the simulator "Sample Manager".



Course Coordinator

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



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