

COURSE OVERVIEW TM0790 Certified Reliability Engineer (CRE) American Society for Quality (ASQ)

Exam Preparation Training

Course Title

Certified Reliability Engineer (CRE): American Society for Quality (ASQ) - Exam Preparation Training

o CEUs

(30 PDHs)

AWAR

Course Reference TM0790

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Date/Venue



Sessions	Date	Venue
1	April 06-10, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
2	June 15-19, 2025	Slaysel 02 Meeting Room, Movenpick Hotel & Resort Al Bida'a Kuwait, City of Kuwait
3	August 11-15, 2025	Ajman Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
4	December 07-11, 2025	Al Khobar Meeting Room, Hilton Garden Inn, Al Khobar, KSA

Course Description



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

Reliability engineers are professionals who understand the principles of performance evaluation and prediction to improve product/systems safety, reliability, and maintainability. This course complies with the Body of Knowledge (BOK) specified for ASQ's Reliability Engineer certification, which includes reliability fundamentals covering leadership foundations and reliability foundations; the benefits of reliability engineering; supplier reliability assessments and performance the monitoring; the basic reliability terminology; the corrective and preventive action, root cause analysis. sigma six methodologies, systems engineering and integration.

During this interactive course, participants will learn the risk management identification, risk management analysis and risk management mitigation; the basic concepts and data management of probability and statistics for reliability; the reliability, planning, testing and modelling; and the lifecycle reliability covering reliability design techniques, parts and system development and maintainability



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Course Objectives

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

- Prepare for the next ASQ CRE exam and have enough knowledge and skills to pass such exam in order to be certified as a "*Certified Reliability Engineer (CRE)*" from an internationally recognized Accreditation Body (American Society for Quality ASQ)
- Discuss reliability fundamentals covering leadership foundations and reliability foundations
- Identify the benefits of reliability engineering and carryout supplier reliability assessments and performance monitoring
- Define the basic reliability terminology and perform corrective and preventive action, root cause analysis, six sigma methodologies, systems engineering and integration
- Employ risk management identification, risk management analysis and risk management mitigation
- Recognize the basic concepts and data management of probability and statistics for reliability
- Employ reliability, planning, testing and modelling
- Illustrate lifecycle reliability covering reliability design techniques, parts and system development and maintainability

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 is essential for those who desire to reinforce their skills, knowledge and capacity to understand the reliability of the organizational excellence body of knowledge in preparation for taking ASQ certified reliability manager examination. Further, the course is also beneficial for reliability managers, reliability engineers, maintenance managers, maintenance engineers, HSE managers, HSE engineers, safety engineers, quality engineers, quality auditors, process engineers, quality managers, instrumentation & control engineers and those who are primarily involved in implementing reliability, quality and compliance within their organizations.



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Exam Eligibility & Structure

- You must have eight years of on-the-job experience in one or more of the areas of the Certified Reliability Engineer Body of Knowledge
- A minimum of three years of this experience must be in a decision-making position. "Decision making" is defined as the authority to define, execute, or control projects/processes and to be responsible for the outcome. This may or may not include management or supervisory positions
- If you are now or were previously certified by ASQ as:-
 - Quality Engineer
 - Quality Auditor
 - Software Quality Engineer
 - Software Quality Professional or,
 - Manager of Quality/Organizational Excellence, experience used to qualify for certification in these fields applies to certification as a Reliability Engineer
- Candidate who have completed a degree from a college, university, or technical school with accreditation accepted by ASQ, part of the eight-year experience requirement will be waived, as follows (only one of these waivers may be claimed):-
 - Diploma from a technical or trade school-one year will be waived
 - Associate's degree-two years waived
 - Bachelor's degree-four years waived
 - Master's or doctorate-five years waived

Degrees or diplomas from educational institutions outside the United States must be equivalent to degrees from U.S. educational institutions

Training Methodology

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



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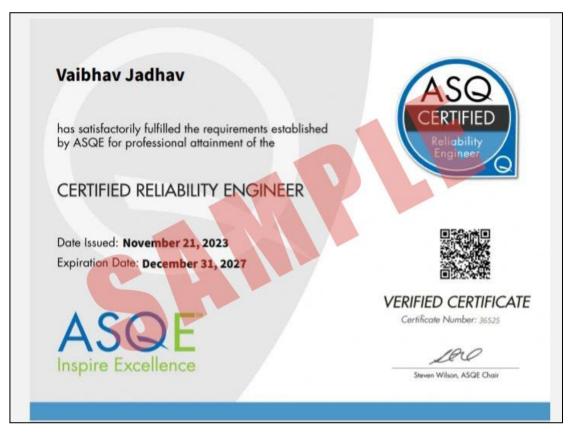




ASQ-CRE Certificate(s)

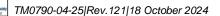
BAC

(1) ASQ-CRE certificates will be issued to participants who have successfully passed the ASQ-CRE examination.



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

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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: -

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.

• * **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.

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 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, SMRP-CMRP is a Senior Mechanical & Maintenance Engineer with extensive industrial experience in Oil, Gas, Power and Utilities industries. His expertise includes Pipeline System Design, Construction, Maintenance and Repair, Facilities & Pipeline Integrity Assessment, Pipeline Welding Practices, Internal Corrosion of Pipelines, Pipeline Integrity Management & Risk Assessment, Thermal Insulation, Insulation Standards & Regulations, Insulation Materials & Selection, Piping System Insulation, Insulation Installation Techniques, Insulation Inspection & Quality Control, Insulation Thickness Calculation, Insulation & Corrosion Protection, Heat Exchanger & Boiler Insulation, Tanks & Vessels Insulation, Pipeline & Piping Insulation, Insulation

Testing & Quality Assurance, Insulation Maintenance & Repair, Insulation Retrofitting, Impulse Tube Installation & Inspection, Parker Compression Fittings, Pipes & Fittings, PSV Inspection, Boiler Operation, Maintenance & Inspection, Root Cause Failure Analysis, Tank Design & Engineering, Tank Shell, Tanks & Tank Farms, Vacuum Tanks, Gas Turbine Operating & Maintenance, Diesel Engine, Engine Cycles, Governors & Maintenance, Crankshafts & Maintenance, Lubrication System Troubleshooting & Maintenance, Engines/Drivers, Motor Failure Analysis & Testing, Motor Predictive Maintenance, Engine Construction & Maintenance, HP Fuel Pumps & Maintenance, Fired Equipment Maintenance, Combustion Techniques, Process Heaters, 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, CAESAR, Pipe Stress Analysis, Pipe Cuttings, Flange Bolt Tightening Sequence, Hydro Testing, Pump Technology, Fundamentals of Pumps, Pump Selection & Installation, Centrifugal Pumps & Troubleshooting, Reciprocating & Centrifugal Compressors, Screw Compressor, Compressor Control & Protection, Gas & Steam Turbines, Turbine Operations, Gas Turbine Technology, Valves, Process Control Valves, Bearings & Lubrication, Advanced Machinery Dynamics, Rubber Compounding, Elastomers, Thermoplastic, Industrial Rubber Products, Rubber Manufacturing Systems, Heat Transfer, Vulcanization Methods, Process Plant Shutdown & Turnaround, Professional Maintenance Planner, Advanced Maintenance Management, Maintenance Optimization & Best Practices, Maintenance Auditing & Benchmarking, Material Cataloguing, 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, Field Engineer, Thermal Insulation Engineer, Mechanical Engineer, Preventive Maintenance Engineer, Senior Thermal Insulation Technician, Researcher, Instructor/Trainer, Telecom Consultant and Consultant from various companies such as the Podaras Engineering Studies, Metka and Diadikasia, S.A., Hellenic Petroleum Oil Refinery and COSMOTE.

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

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AWS



Training Fee

Dubai	US\$ 5,750 per Delegate + VAT . This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Al Khobar	US\$ 5,750 per Delegate + VAT . This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Abu Dhabi	US\$ 5,750 per Delegate + VAT . This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Kuwait	US\$ 5,750 per Delegate + VAT . This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee

US\$ 715 per Delegate + VAT.

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 Reliability Fundamentals: Leadership Foundation Benefits of Reliability Engineering • Interrelationship of Safety, Quality & Reliability • Reliability Engineer Leadership Responsibilities • Reliability in Engineering • Ethics in Reliability Engineer Foundation of Reliability in Engineering • Ethics in Reliability Engineer regimeer + Context of Reliability + Regimeer Reliability Engineer Reliability Engineer Reliability in Engineering • Ethics in Reliability Engineering • Supplier Reliability + Assessments • Performance Monitoring 0930 - 0945 Break 0945 - 1100 Reliability Fundamentals: Reliability Foundations Basic Reliability Terminology • Drivers of Reliability Requirements & Targets • Corrective & Preventive Action • Root Cause Analysis • Product Lifecycle Engineering Stages 1100 - 1230 Reliability Fundamentals: Reliability Foundations (cont'd) Economics of Product Maintainability & Availability • Cost of Poor Reliability • Quality Triangle • Six Sigma Methodologies • Systems Engineering & Integration 1230 - 1245 Break 1245 - 1400 Risk Management Identification Risk Management Techniques • Types of Risk 1400 - 1410 Recap 1410 - 1430 Lunch & End of Day One	Day 1	
0815 - 0830 PRE-TEST 0830 - 0930 Reliability Fundamentals: Leadership Foundation Benefits of Reliability Engineering • Interrelationship of Safety, Quality & Reliability • Reliability Engineer Leadership Responsibilities • Reliability Engineer Role & Responsibilities in the Product Lifecycle • Function of Reliability in Engineering • Ethics in Reliability Engineering • Supplier Reliability Assessments • Performance Monitoring 0930 - 0945 Break 0945 - 1100 Reliability Fundamentals: Reliability Foundations Basic Reliability Terminology • Drivers of Reliability Requirements & Targets • Corrective & Preventive Action • Root Cause Analysis • Product Lifecycle Engineering Stages 1100 - 1230 Reliability Fundamentals: Reliability Foundations (cont'd) Economics of Product Maintainability & Availability • Cost of Poor Reliability • Quality Triangle • Six Sigma Methodologies • Systems Engineering & Integration 1230 - 1245 Break 1245 - 1400 Risk Management Identification Risk Management Techniques • Types of Risk 1400 - 1410 Recap 1410 - 1430 Quiz	0730 - 0800	Registration & Coffee
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1245 - 1400 Risk Management Techniques • Types of Risk 1400 - 1410 Recap 1410 - 1430 Quiz	1230 – 1245	Break
1410 – 1430 Quiz	1245 - 1400	0
	1400 - 1410	Recap
1430 Lunch & End of Day One	1410 - 1430	Quiz
	1430	Lunch & End of Day One



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Day 2

0730 - 0830	Review of Day 1
0830 - 0930	Risk Management AnalysisFault Tree Analysis (FTA) • Failure Modes & Effects Analysis (FMEA)• Common Mode Failure Analysis • Hazard Analysis • Risk Matrix• System Safety
0930 - 0945	Break
0945 - 1100	Risk Management Mitigation Strategies to Minimize Risk • Product Improvement • End of Life Considerations
1100 - 1230	Probability & Statistics for Reliability: Basic Concepts Basic Statistics • Basic Probability Concepts • Probability Distributions • Probability Functions
1230 - 1245	Break
1245 - 1400	Probability & Statistics for Reliability: Basic Concepts (cont'd) Sampling Plans for Statistics & Reliability Testing • Statistical Process Control (SPC) & Process Capability Studies (C_p , C_{pk}) • Confidence & Tolerance Intervals
1400 - 1410	Recap
1410 – 1430	Quiz
1430	Lunch & End of Day Two

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Day 3	
0730 - 0830	Review of Day 2
0020 0020	Probability & Statistics for Reliability: Data Management
0830 - 0930	Sources & Uses of Reliability Data • Types of Data • Data Collection Methods
0930 - 0945	Break
	Probability & Statistics for Reliability: Data Management (cont'd)
0945 – 1100	Data Summary & Reporting • Failure Analysis Methods • Failure Reporting,
	Analysis & Corrective Action System (FRACAS)
	Reliability Planning
1100 – 1230	Reliability Test Strategies • Environmental & Conditions of Use Factors •
	Failure Consequences • Failure Criteria • Test Environment
1230 – 1245	Break
	Reliability Testing
1245 – 1400	Testing • Accelerated Life Tests • Stress Screening •
	<i>Qualification/Demonstration Testing</i> • <i>Degradation</i> • <i>Software Testing</i>
1400 - 1410	Recap
1410 - 1430	Quiz
1430	Lunch & End of Day Three

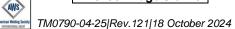
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Day 4		
0730 - 0830	Review of Day 3	
0830 - 0930	Reliability Modeling Reliability Block Diagrams & Models • Physics of Failure (Pof) & Failure	
0030 - 0330	Mechanisms • Failure Models	
0930 - 0945	Break	
0945 – 1100	Reliability Modeling (cont'd) Reliability Prediction Methods • Design Prototyping	
1100 - 1230	<i>Lifecycle Reliability: Reliability Design Techniques</i> Design Evaluation Techniques (Validation & Verification) • Stress-Strength Analysis • Design of Experiments (DOE) • Reliability Optimization	

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1230 - 1245	Break
1245 - 1400	Lifecycle Reliability: Reliability Design Techniques (cont'd)
	Human Factors \bullet Design for X (DFX) \bullet Design for Reliability (DfR)
1400 - 1410	Recap
1410 - 1430	Quiz
1430	Lunch & End of Day Four

Day 5

Review of Day 4
Lifecycle Reliability: Parts & Systems Development
Materials & Components Selection Techniques
Break
Lifecycle Reliability: Parts & Systems Development (cont'd)
Parts Standardization & System Simplification
Lifecycle Reliability: Maintainability
Maintenance Strategies • Preventive Maintenance (PM) Analysis
Break
Lifecycle Reliability: Maintainability (cont'd)
Corrective Maintenance Analysis
Course Conclusion
POST-TEST
Presentation of Course Certificates
Lunch & End of Course

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK exam during the 30 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.



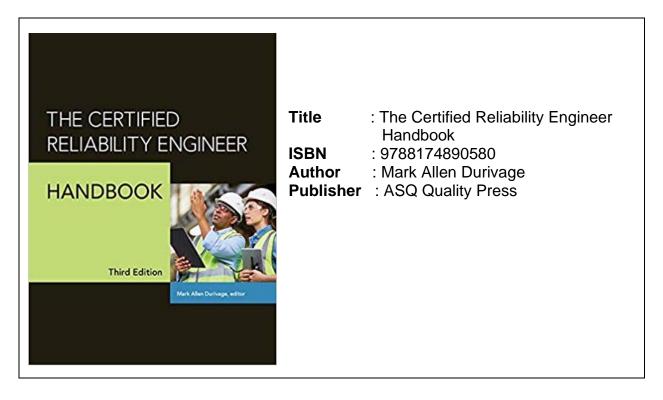
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Book(s)

As part of the course kit, the following e-book will be given to all participants:-



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



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