

COURSE OVERVIEW SS0387
ASQ Six Sigma Yellow Belt Certification
(ASQ-CSSYB Exam Preparation Training)

Course Title

ASQ Six Sigma Yellow Belt Certification -
(ASQ-CSSYB Exam Preparation Training)

Course Date/Venue

November 03-07, 2024/Executive Boardroom
 Meeting Room, Al Bandar Rotana - Creek,
 Dubai, UAE

Course Reference

SS0387

Course Duration

Five days/3.0 CEUs/30 PDHs

Course Description



80% of this course is practical sessions where participants will be engaged in a series of interactive small groups, class workshops and role-plays.

The Six Sigma Yellow Belt certification is aimed at those new to the world of Six Sigma who have a small role, interest, or need to develop foundational knowledge. Yellow belts can be entry level employees who seek to improve their world or executive champions who require an overview of Six Sigma and define, measure, analyze, improve and control model (DMAIC). The course adopts the approach of advancing the concept and potential of using Six Sigma tools and methodologies within an organization.

This course is designed to provide participants with a detailed and up-to-date overview of Six Sigma Yellow Belt. It covers the six sigma fundamentals, six sigma foundation and principles, lean foundations, six sigma roles and responsibilities, team basics and quality tools and six sigma metrics; the define phase, project identification and project management (PM) basics; the measure phase, basic statistics, data collection and measurement system analysis (MSA); the analyse phase, process analysis tools, root cause analysis, corrective action, preventive action, data analysis, correlation and regression and hypothesis testing; and the improve and control phases, improvement techniques and control tools and documentation.

Course Objectives

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

- Get prepared for the next CSSYB exam and have enough knowledge and skills to pass such exam in order to get the ASQ-CSSYB certification
- Discuss six sigma fundamentals covering six sigma foundation and principles, lean foundations, six sigma roles and responsibilities, team basics and quality tools & six sigma metrics
- Recognize define phase comprising of project identification and project management (PM) basics
- Carryout measure phase consisting of basic statistics, data collection and measurement system analysis (MSA)
- Illustrate analyse phase that include process analysis tools, root cause analysis, corrective action, preventive action, data analysis, correlation and regression and hypothesis testing
- Apply improve and control phases including improvement techniques and control tools and documentation

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 Lean Six Sigma Yellow Belt for those who are new to the world of Six Sigma who have a small role, interest, or need to develop foundational knowledge. Yellow belts can be entry level employees who seek to improve their world or executive champions who require an overview of Six Sigma and define, measure, analyze, improve and control model (DMAIC).

Exam Eligibility & Structure

Exam candidates shall have the following minimum pre-requisites: -

- The Certificate Six Sigma Yellow Belt has no experience or education requirements.

Course Fee

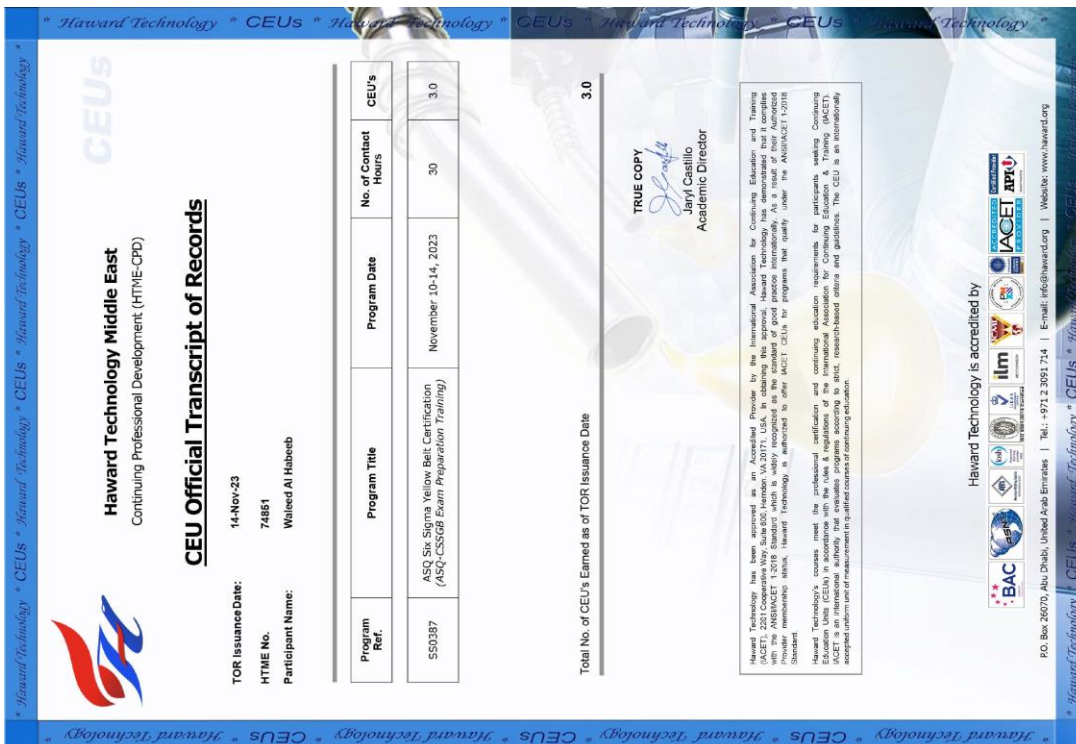
US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

ASQ-CSSYB Certificate(s)

ASQ-CSSYB certificates will be issued to participants who have successfully passed the ASQ-CSSYB examination.



- (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.



Certificate Accreditations


Certificates are accredited by the following international accreditation organizations: -

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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 **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.

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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**. 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.

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 with over 35 years of extensive experience. He is an authority in Introduction to Six Sigma, Six Sigma Foundations & Principles, Lean Foundations & Principles, Six Sigma Roles & Responsibilities, Team Basics, Quality Tools & Six Sigma Metrics, Microbiology Laboratory, Microbiology Quality Management, Microbiology QC Systems, Microbiological Analysis of Water & Wastewater, Molecular Biology Test Techniques (Advanced), Laboratory Equipment, Laboratory Quality Management Systems (ISO 17025 and ISO 15189), Basics of Water Quality, Liquid Scintillation Counting, Lab Safety & Health, Good Laboratory Practice (GLP) and Safety Procedure in Laboratories. His wide expertise also covers Water Analysis & Reporting, Water Sampling & Testing, Water Analyzer, Medical Laboratory Auditing, ISO 15489, Infection Control, Internal Quality Control for Microbiologists, Analytical Techniques, Biochemical, Hematological, Parasitological, Biochemical, Microbiological & Serological Analysis of Clinical Specimens, Helminth Ova & Salmonella in Waste Water & Sludge, Initiation to Water Networks Components, Microbiological Aspects & Analysis of Wastewater, Microbiology of Wetlands, Microbiological Indoor Air Quality, Entrococcus, Pseudomonas & Aeromonas, Sulfate Reducing Bacteria, Fluorescence Microscopy, Qualitative Analysis of Soil and Ground Water, Planktology of Ambient Environment, Oral, Medical & Diagnostic Microbiology and Oral & Dental Hygiene. Further, he is also well-versed in the areas of Food Hygiene and HACCP, Groundwater: Well Inventory, Monitoring & Conservation, Food Safety, Food Poisoning, First Aid & CPR and Fire Safety. 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's** degree in **Clinical Microbiology** and **Bachelor's** 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 a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**, a **Certified Instructor/Trainer** and 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

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: Sunday, 03rd of November 2024

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Six Sigma Fundamentals: Six Sigma Foundations & Principles Describe the Purpose of Six Sigma (Reducing Variation), Its Methodology (DMAIC), & Its Evolution from Quality • Describe the Value of Six Sigma to the Organization as a Whole (Understand)
0930 – 0945	Break
0945 – 1100	Six Sigma Fundamentals: Lean Foundations & Principles Describe the Purpose of Lean (Waste Elimination) & Its Methodologies (Just-In-Time, Poka-Yoke, Kanban, Value Stream Mapping) • Describe the Value of Lean to the Organization as a Whole (Understand)
1100 – 1200	Six Sigma Fundamentals: Six Sigma Roles & Responsibilities Define & Describe the Roles & Responsibilities of Six Sigma Team Members (i.e., Individual Team Members, Yellow Belt, Green Belt, Black Belt, Master Black Belt, Process Owner, Champion, Sponsor) (Understand)
1200 – 1215	Break
1215 – 1420	Six Sigma Fundamentals: Team Basics Types of Teams (Identify the Various Types of Teams that Operate within an Organization (i.e., Continuous Improvement, Self-Managed, & Cross-Functional) & Their Value) (Understand) • Stages of Development (Describe the Various Stages of Team Evolution: Forming, Storming, Norming, Performing, & Adjourning) (Understand) • Decision-Making Tools (Define & Apply Decision Making Tools such as Brainstorming, Multivoting, & Nominal Group Technique (NGT) (Apply) • Communication Methods (Explain How Teams Use Agendas, Meeting Minutes, & Project Status Reports, & How They Support Project Success) (Apply)
1420 – 1430	Recap 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: Monday, 04th of November 2024

0730 – 0930	Six Sigma Fundamentals: Quality Tools & Six Sigma Metrics Quality Tools (Select & Use these Tools Throughout the DMAIC Process: Pareto Charts, Cause & Effect Diagrams, Flowcharts, Run Charts, Check Sheets, Scatter Diagrams, & Histograms) (Apply) • Six Sigma Metrics (Select & Use these Metrics Throughout the DMAIC Process: Defects Per Unit (DPU), Defects Per Million Opportunities (DPMO), Rolled Throughput Yield (RTY), Cycle Time, & Cost of Poor Quality (COPQ) (Apply)
0930 – 0945	Break
0945 – 1100	Define Phase: Project Identification Voice of the Customer (Define the Voice of the Customer & Describe How Customer Needs are Translated into Quantifiable, Critical-To-Quality (CTQ) Characteristics) (Understand) • Project Selection (Describe How Projects are Identified & Selected as Suitable for a Six Sigma Project Using the DMAIC Methodology) (Understand) • Stakeholder Analysis (Identify End Users, Subject Matter Experts, Process Owners, & Other People or Factors that will be Affected by a Project, & Describe How Each of them can Influence the Project) (Understand) • Process Inputs & Outputs (Use SIPOC (Suppliers, Inputs, Process, Outputs, Customers) to Identify & Define Important Elements of a Process) (Apply) • Supply Chain Management (Understand Supply Chain Management & How it Relates to Project Management) (Apply)
1100 – 1200	Define Phase: Project Management (PM) Basics Project Charter (Describe the Purpose of a Charter & Its Components: Problem Statement, Project Scope, Baseline Data, & Project Goal) (Understand) • Communication Plan (Explain the Purpose & Benefits of a Communication Plan & How it can Impact the Success of the Project) (Understand) • Project Planning (Define Work Breakdown Structure (WBS) & Gantt Charts, & Describe How they are Used to Plan & Monitor Projects) (Understand) • Project Management Tools (Select & Use Various PM Tools: Activity Network Diagrams, Affinity Diagrams, Matrix Charts, Relations Charts, & Tree Diagrams) (Understand) • Phase Reviews (Explain How Tollgate or Phase Reviews are Used Throughout the DMAIC Lifecycle) (Understand)
1200 – 1215	Break
1215 - 1420	Measure Phase: Basic Statistics Define, Calculate, & Interpret Measures of Central Tendency (Mean, Median, Mode) & Understand Measures of Dispersion (Standard Deviation, Range, Variance) (Apply)
1420 – 1430	Recap 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: Tuesday, 05th of November 2024

0730 – 0930	<p>Measure Phase: Data Collection <i>Data Collection Plans (Describe the Critical Elements of a Data Collection Plan, Including an Operational Definition, Data Sources, the Method to be Used for Gathering Data, & How Frequently it will be Gathered • Describe Why Data Collection Plans are Important) (Understand) • Qualitative & Quantitative Data (Define & Distinguish Between these Types of Data) (Understand) • Data Collection Techniques (Use Various Data Collection Techniques, Including Surveys, Interviews, Check Sheets, & Checklists to Gather Data that Contributes to the Process Being Improved) (Apply)</i></p>
0930 – 0945	Break
0945 – 1200	<p>Measure Phase: Measurement System Analysis (MSA) <i>MSA Terms (Define Precision, Accuracy, Bias, Linearity, & Stability, & Describe How these Terms are Applied in the Measurement Phase) (Understand) • Gauge Repeatability & Reproducibility (GR&R) (Describe & Distinguish Between Repeatability & Reproducibility & Describe How & Why GR&R is Used in the Measurement Phase) (Understand)</i></p>
1200 – 1215	Break
1215 – 1330	<p>Analyse Phase: Process Analysis Tools <i>Lean Tools (Define How 5S & Value Analysis can be Used to Identify & Eliminate Waste) (Understand) • Failure Mode & Effect Analysis (FMEA) (Relate the Elements of Severity, Occurrence, & Detection, & Determine How they are Used to Calculate the Risk Priority Number • Demonstrate how FMEA can be Used to Identify Potential Failures in a Process) (Apply)</i></p>
1330 - 1420	<p>Analyse Phase: Root Cause Analysis <i>Describe How the 5 Whys, Process Mapping, 8D, Force-Field Analysis, & Matrix Charts can be Used to Identify the Root Causes of a Problem (Understand)</i></p>
1420 – 1430	<p>Recap <i>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</i></p>
1430	Lunch & End of Day Three

Day 4: Wednesday, 06th of November 2024

0730 – 0930	<p>Analyse Phase: Corrective Action <i>Explain & Apply Elements of the Corrective Action Process: Identify the Problem, Contain the Problem (Interim Action), Determine the Causes of the Problem & Propose Solutions to Eliminate it or Prevent its Recurrence (Permanent Action), Verify that the Solutions are Implemented, & Confirm Their Effectiveness (Validation) (Apply)</i></p>
0930 – 0945	Break
0945 – 1100	<p>Analyse Phase: Preventive Action <i>Explain & Apply Elements of a Preventive Action Process: Understand Various Process Analysis Techniques to Identify Potential Failures, Defects, or Process Deficiencies; Improve the Process (e.g., Understand Error- or Mistake-Proofing Devices or Methods, Initiate Procedural Changes), & Verify the Effectiveness of the Preventive Action (Apply)</i></p>

1100 – 1200	Analyse Phase: Data Analysis Basic Distribution Types (Define & Distinguish Between Normal & Binomial Distributions & Describe How their Shapes (Skewed & Bimodal) can Affect Data Interpretation) (Understand) • Common & Special Cause Variation (Describe & Distinguish Between these Types of Variation) (Understand)
1200 – 1215	Break
1215 – 1420	Analyse Phase: Correlation & Regression Correlation (Describe How Correlation is Used to Identify Relationships Between Variables) (Understand) • Regression (Describe How Regression Analysis is Used to Predict Outcomes) (Understand)
1420 – 1430	Recap 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: Thursday, 07th of November 2024

0730 – 0830	Analyse Phase: Hypothesis Testing Define & Distinguish Between Hypothesis Terms (i.e., Null & Alternative, Type I & Type II Error, P-Value & Power) (Understand)
0930 - 0945	Break
0945 - 1030	Improve & Control Phases: Improvement Techniques Kaizen & Kaizen Blitz (Define & Distinguish Between these Two Methods & Describe How they can be Used to Make Improvements to Any Process in an Organization) (Understand) • Plan-Do-Check-Act (PDCA) Cycle (Define & Distinguish Between the Steps in This Process Improvement Tool) (Understand) • Cost-Benefit Analysis (Explain the Importance of this Analysis & How it is Used in the Improve Phase) (Understand)
1030 - 1200	Improve & Control Phases: Control Tools & Documentation Control Plan (Describe the Importance of a Control Plan for Maintaining Improvements) (Understand) • Control Charts (Describe How X-R Charts are Used for Monitoring & Sustaining Improved Processes) (Understand)
1200 - 1215	Break
1215 - 1345	Improve & Control Phases: Control Tools & Documentation (cont'd) Document Control (Describe the Importance of Documenting Changes to a Process & Communicating those Changes to Stakeholders) (Understand) • Work Instructions & Standard Operating Procedures (SOPs) (Understand the Purpose & Use of Work Instructions & SOPs) (Understand)
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

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.

Practical Sessions

80% of this highly-interactive course is practical sessions. Theory learnt (20%) will be applied using various role-plays, case studies and practical sessions.



Course Coordinator

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