COURSE OVERVIEW SS0038

ASQ Approved Lean Six Sigma Green Belt Training

(One Week Awareness)

Course Title

ASQ Approved Lean Six Sigma Green Belt *(One Week Awareness)*

Course Date/Venue

October 12-16, 2025/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE

Course Reference

SS0038

Course Duration/Credits

Five days/3.5 CEUs/35 PDHs

Course Introduction

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 lean six sigma green belt. It covers the foundation of lean and six sigma; the drivers, metrics, projects and theory of constraints; the customer data, project planning tools and project documentation; the basic lean six sigma metrics, team dynamics and performance; the overview of measure and minitab; the process mapping and cause and effect analysis; the FMEA, probability and statistics, measurement systems analysis, data collection and summary.

During this interactive course, participants will learn the process capability, phase overview, hypothesis testing and ANOVA; the regression, chi-square, graphical analysis and lean analysis tools; the phase transition, lean improvement tools and experiments; the DoE golf experiments; the implementation and validation of solution; and the control phase, standard work, control charting, control plans and control phase transition.

Course Objectives

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

- Apply and gain an in-depth knowledge on lean six sigma green belt
- Discuss the foundation of lean and six sigma, drivers, metrics, projects and theory of constraints
- Identify customer data, project planning tools and project documentation
- Explain the basic lean six sigma metrics, team dynamics and performance
- Discuss the overview of measure, minitab, process mapping and cause and effect analysis
- Recognize the FMEA, probability and statistics, measurement systems analysis, data collection and summary
- Describe process capability, phase overview, hypothesis testing and ANOVA
- Identify regression, chi-square, graphical analysis and lean analysis tools
- Analyze phase transition, lean improvement tools and design of experiments
- Carryout DoE golf experiment, implementation and validation solution and control phase
- Illustrate standard work, control charting, control plans and control phase transition

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 intended for those who are from diverse organizational functions-operations, quality, logistics, finance, production, engineering and other staff functions. Participants are normally process owners or leaders and are well versed in technical aspects of their jobs and have worked on project teams.

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 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:

- 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 **3.5 CEUs** (Continuing Education Units) or **35 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.

Accommodation

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

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. Tarek Awad, PhD, MSc, BSc, is a **Senior Management Consultant** with proven experience in **Oil**, **Gas**, **Refinery** & **Petrochemical** industries. He is well-experienced in **Six Sigma Analysis**, **Six Sigma Technology Tool Landscape**, **Lean Six Sigma**, **DMAIC**, **Statistical Process Control**, **Measurement System Analysis**, **Business Analysis**, **Corporate Strategies**, **Budget Preparations & Follow-Up**, **Capital & Resources Planning & Management**, **Planning Claims Management**, **Quality Assurance & Control**, **Total Quality Management**, **Project Management**, **Quality Management System**, **Analytical Problem-Solving & Decision Making** and **Communication & Leadership Skills**. Further, he is well-versed in **Natural Gas** and **LNG**, **Analytical Laboratory Management** and Accreditation, **Gas Chromatography** (**GC**), Laboratory Quality Management, Lab Management Systems, Product and Chemical Analysis, QA/QC, Corrosion & Analytical Management Activities/Techniques, Health & Safety and Laboratory Operations. He is a **Certified Data Analyst**, **Lean Six Sigma Black Belt** (**LSSBB**), and **Certified Lead Auditor** in accordance with ISO 9001, ISO14001, OHSAS 18001 and **ISO 17025**.

Dr. Tarek gained his expertise through his long-term dedication as a **Senior Laboratory Analyst**, **Internal Lead Auditor & Technical & Continual Improvement Manager** in **SEGAS LNG**. He was in-charge of plant optimization, Quality, Environmental & OHSAS Standards. Prior to this, he was a **Project Team Leader**, an **Advisor** for a reputable oil, gas and LNG company in the Middle East and was the **Senior Corrosion & QC Chemist** of **WEPCO** wherein his duties involved quality control, corrosion control and chemical optimization for oilfield. He has built-up a formidable reputation with his professionalism and practical problem solving abilities and has performed significant contribution to his fields.

Dr. Tarek has **PhD** in **Analytical Chemistry**, a **Post Graduate Diploma** and **Master** degree in **Material Science** (**Corrosion**) and a **Bachelor** degree in **Chemistry**. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**), a **Certified CLSSBB Lean Six Sigma**, a **Certified ISO Auditor/Lead Auditor** (**QMS**), a **Certified IEMA Auditor** (**EMS**) and an active member of International Register of Certificated Auditors (I**RCA**), American Center Library, Egyptian Accreditation Council (**EGAC**), Technical Assistance Center (**TAC**), Egyptian Corrosion Society, Egyptian Arab Society of Material Science, Egyptian Syndicate of Scientific Profession and Egyptian Petroleum Association. He has further published various scientific papers, technical journals as well as delivered numerous trainings, courses, seminars and workshops worldwide.

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, 12th of October 2025

0700 – 0730	*Registration & Coffee*
0730 – 0745	*Welcome & Introduction*
0745 – 0800	***PRE-TEST***
0800 – 0915	***Overview & Foundation of Lean & Six Sigma***
0915 – 0930	*Break*
1030 - 1045	***Drivers & Metrics***
1045 - 1100	***Projects***
1100 – 1115	*Break*
1115 - 1215	***Theory of Constraints***
1215 - 1245	***Customer Data***
1245 – 1315	*Prayer Break/Lunch*
1315 - 1400	***Project Planning Tools***
1400 - 1450	***Project Documentation***
1450 – 1500	***Recap***
1500	*End of Day One*

Day 2: Monday, 13th of October 2025

0700 – 0800	***Basic Lean Six Sigma Metrics***
0800 – 0915	***Team Dynamics & Performance***
0915 – 0930	*Break*
0930 - 1030	***Overview of Measure***
1030 – 1115	***Introduction to Minitab***
1115 – 1130	*Break*
1130 - 1215	***Process Mapping***
1215 - 1245	***Cause & Effect Analysis***
1245 – 1315	*Prayer Break/Lunch*
1315 - 1450	***FMEA***
1450 – 1500	***Recap***
1500	*End of Day Two*

Day 3: Tuesday, 14th of October 2025

0700 – 0800	***Probability & Statistics***
0800 – 0915	***Measurement Systems Analysis***
0915 – 0930	*Break*
0930 - 1030	***Data Collection & Summary***
1030 – 1115	***Process Capability***
1115 – 1130	*Break*
1130 - 1215	***Analyze Phase Overview***
1215 - 1245	***Hypothesis Testing***
1245 – 1315	*Prayer Break/Lunch*
1315 - 1450	***ANOVA***
1450 – 1500	***Recap***
1500	*End of Day Three*

Day 4:	***Wednesday, 15th of October 2025***
0700 – 0800	***Regression***
0800 – 0915	***Chi-square***
0915 – 0930	*Break*
0930 - 1030	***Graphical Analysis***
1030 – 1115	***Lean Analysis Tools***
1115 – 1130	*Break*
1130 - 1215	***Analyze Phase Transition***
1215 - 1245	***Improve Overview***
1245 – 1315	*Prayer Break/Lunch*
1315 - 1400	***Lean Improvement Tools***
1400 - 1450	***Introduction to Design of Experiments***
1450 – 1500	***Recap***
1500	*End of Day Three*

Day 5:	***Thursday, 16th of October 2025***
0700 – 0800	***DoE Golf Experiment***
0800 – 0915	***Implementation & Validation Solution***
0915 – 0930	*Break*
0930 - 1030	***Control Phase Overview***
1030 – 1115	***Standard Work***
1115 – 1130	*Break*
1130 - 1215	***Control Charting***
1215 - 1245	***Control Plans***
1245 – 1315	*Prayer Break/Lunch*
1315 – 1330	***Control Phase Transition***
1330 – 1345	***Course Conclusion***
1345 - 1445	***POST-TEST***
1445 – 1500	*Presentation of Course Certificates*
1500	*End of Course*

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

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