Technical & Financial Proposal

Certified Lean Six Sigma Green Belt

Course Card:

Training Title	Certified Lean Six Sigma Green Belt
Training Location	Dammam- Saudi Arabia
Training Duration	5 days, 30 Hrs.
Training Date	03 – 07 / 08 / 2025
Training Language	Arabic Language
Training Percentage	Theoretical : 40% - Practical: 60%
Assessment Methodology	KVA = Post Assessment – Pre Assessment
Certificate	Certificate issued by **ALJHOOD**
Target Audience	– Engineers. – Quality professional. – production managers. – Front-line supervisors. – process owners and champions charged with the responsibility of improving quality.

Lean & Six Sigma

Six Sigma is a people? Driven process. The Six Sigma project performance level tends to match the level of persistence, expertise, and commitment of the individual members of the team. While reviewing the roles that contribute to the project, most of them think about the champion and Black Belts roles to deploy the project. However, to improve the performance of the projects, Green Belts will also play a critical role in the process improvement.

Green belts are skilled team players and their aim is to improve process quality. They help to bridge the gap between the Six Sigma theory and real-world application. Six Sigma Green Belt candidates play a vital role in improving the process, data inspection or Project Management. Green Belt training teaches candidates the basic tools used by a project team and how to apply DMAIC skills that relate to a Six Sigma project.

Course Overview:

Aljhood offers professional certification in Lean Six Sigma Green Belt, for those professionals in project management who want to prepare for the implementation of the Lean Six Sigma methodology, with the purpose that companies optimize their processes, taking advantage of resources and decreasing the variability of the processes to eliminate the waste that may exist in it.

Lean Six Sigma Green Belt, aims to teach project management professionals to lead or be part of a team with the ability to analyze and solve quality problems, to help companies optimize their processes, taking advantage of resources and reducing the variability of processes to eliminate the waste that may exist in it.

Training Techniques:

- Brain Storming.
- Groups Discussions.
- Scenario-Based Learning.
- Real-life cases from work environment.

Competencies:

- The ability to deliver business benefits effectively.
- The knowledge and skillset to enhance efficiency of processes and workflows.
- Competence, which is highly demanded in the industry (Analytical, Statistical, Facilitation, Project Management Skills etc.)
- deal preparation for a leadership role.

Course Objectives:

By the end of the interacting training, the trainee will be able to cover the following:

- Function as a 'tools application' member of a Six Sigma project team.
- Lead and execute process-level improvement projects.
- Collect process data and develop process maps.
- Develop statistical hypotheses using simple statistical tools.
- Design simple experiments and/or implementation plans that help validate improvement options.
- Apply problem solving and quantifiable tools to an improvement project brought to class on the first day.
- Eliminate waste and defects by applying Lean and Six Sigma.
- Learn how to execute the Six Sigma methodology.
- Work with process owners to ensure process gains are held.

Course Modules:

Module 1: Six sigma and Organizational Goals

- What is Six Sigma.
- Value of Six Sigma.
- Organizational drivers and metrics.
- Organizational goals and Six Sigma projects.

Module 2: Lean Principles in the organization

- Lean principles in the organization.
- Lean concepts and tools.
- Value-added and non-value-added activities.
- Theory of constraints.

Module 3: Design for Six Sigma (DFSS) in the organization

- Quality function deployment (QFD).
- Design and process failure mode and effects analysis (FMEA, DFMEA & PFMEA).
- Road maps for DFSS.
- Six Sigma – Define – I.

Module 4: Introduction to the Define Phase

- Process elements.
- Identify customers.
- Collect customer data.
- Analyze customer data.
- Translate customer requirements.

Module 5: Project Management Basics

- Project charter and problem statement.
- Project scope.
- Project metrics.
- Project planning tools.
- Project risk analysis.
- Project closure.

Module 6: Other Tools and Techniques

- Design of Experiments.
- Building Charts.
- Ten Questions Regarding Six Sigma.
- Course Wrap Up.

Module 7: Process Analysis and Documentation

- Process Modelling.
- Process Inputs and Outputs.
- Probability and Statistics.
- Drawing valid statistical conclusions.
- Central limit theorem and sampling distribution of the mean.
- Basic probability concepts.

Module 8: Collecting and Summarizing Data

- Types of data and measurement scales.

- Data collection method.
- Techniques for assuring data accuracy and integrity.
- Descriptive Statistics.
- Graphical methods.

Module 9: Lean Process Improvement

- Understanding Lean.
- The Toyota Production System.
- The Toyota Production System House.
- The Five Critical Improvement Concepts.
- Understanding Value with the Kano Model.
- Types of Waste.
- Creating a Lean Enterprise.
- Understanding Lean.
- The Plan, Do, Study, Act (PDSA) Cycle.
- Using the R-DMAIC-S Model.
- Lean Thinking Tools.
- Kaizen Events.
- Data Gathering and Mapping.

End of the proposal,