



Crystal Lean Solutions

Training
Academy

ASQ Lean Six Sigma Green Belt



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DURATION:	9 Days
ACCREDITATION:	American Society for Quality (ASQ)
COURSE CODE:	1021

AIM:

The aim of this programme is to provide you with the knowledge and skills to lead and execute business improvement projects. This is achieved through the understanding and utilisation of the American Society of Quality (ASQ) Green Belt Body of Knowledge (BOK). These tools focus on improving key business metrics including customer service, compliance, cost, delivery, and supply.

OBJECTIVES:

At the end of the course, learners will be able to:

- ✿ Understand the DMAIC improvement methodology and Six Sigma tools
- ✿ Apply the Six Sigma DMAIC methodology to business improvement projects
- ✿ Collect and analyse data using the appropriate Six Sigma tools
- ✿ Apply Lean methodology to a waste reduction project
- ✿ Understand team dynamics when delivering a project
- ✿ Complete the Green Belt ASQ examination

THIS PROGRAMME IS FOR:

This programme is suitable to roles that are involved in continuous improvement of process and are comfortable with analysing data. This includes, but not limited to:
Engineers – Quality, Manufacturing, Mechanical, Maintenance
Technicians - Quality, Manufacturing, Mechanical, Maintenance
Managers– interested in learning more about Six Sigma and how to apply in your organisation.

PROGRAMME CONTENT:

Day 1-3 Introduction, Define & Measure Phase

- ✿ Introduction to DMAIC
- ✿ Project Charter
- ✿ Process and Value Stream Mapping
- ✿ Management of Team Dynamics
- ✿ Project Management
- ✿ Data Collection and Analysis Methods
- ✿ Introduction to Minitab/JMP
- ✿ Practice ASQ multiple choice questions

Day 4-6 Measure and Analyse Phase

- ✿ Profitability
- ✿ Measure System Analysis
- ✿ Process Capability, C_p , C_{pk} , P_p , P_{pk}
- ✿ Hypothesis Testing
- ✿ Practice tools using Minitab
- ✿ SMED and Visual Management
- ✿ Practice ASQ multiple choice questions

Day 7-9 Improve and Control Phase

- ✿ 5S and Error proofing
- ✿ 1 way ANOVA
- ✿ Regression Analysis
- ✿ Introduction to design of experiments
- ✿ Quality function deployment
- ✿ Practice ASQ multiple choice questions

ASSESSMENT:	See certification requirements below
GRADING:	See certification requirements below
PROGRAMME DELIVERY:	9 days classroom-based
TOTAL DURATION OF THE PROGRAMME INCLUDES:	Classroom duration: 9 days Self-directed learning: 80 hours (for examination preparation)
CERTIFICATION CRITERIA:	ASQ describe the cost of ASQ certification and certification criteria at the following location. ASQ Lean Six Sigma Green Belt
CERTIFICATION BODY:	American Society for Quality (ASQ)
RECOGNITION OF PRIOR LEARNING (RPL):	Not Applicable
PRE-REQUISITE:	None for Training. 3 Years experience in areas of the book of knowledge for ASQ certification.

OTHER COURSES OF INTEREST FROM THE CLS TRAINING ACADEMY:



- ☀ Professional Diploma in Leadership
- ☀ Effective Presentation Skills
- ☀ Team Dynamics
- ☀ Change Management
- ☀ Human Error Problem Solving
- ☀ Professional Certificate in Project Management