



Quality and Six Sigma Green Belt Training Outline

We offer a course in Quality Management and Six Sigma Sigma. The contents covered in the course is aligned with the American Society for Quality (ASQ) Body of Knowledge for Six Sigma Green Belt Training. It covers the required information to enable delegates to sit the Six Sigma Green Belt Exam to gain accreditation from the ASQ.

The course is delivered through a combination of e-learning (using Minitab Quality Trainer) and all-day training sessions facilitated by an accredited Six Sigma Black Belt. We are happy to tailor the course content to focus on specific areas should this be required. Please get in touch through the contact page on our website to enquire costs and availability - www.solue.co.uk

	Quality Training	Introduction to Six Sigma
Session 1	Descriptive Statistics, Graphical Analysis and Statistical Inference (Ch 1 & 2)	Introduction to Six Sigma as a philosophy, performance metric and methodology. $Y=f(x)$, Six sigma history, roles and guidelines for project selection.
Session 2	Hypothesis Testing, Confidence Intervals and Control Charts (Ch 3 & 4).	The Define Phase: The Project Charter, defining project deliverables (CTC; CTS; CTQ), Voice of the Customer, OEE, high level process map - SIPOC, project planning, work breakdown structure, project governance, stakeholder identification and stakeholder management.
Session 3	Process Capability, Analysis of Variance (ANOVA) (Ch 5 & 6).	Managing teams and change: Team stages and dynamics, principles and tools for change management.
Session 4	Correlation and Regression, Measurement System Analysis (Ch 7 & 8).	Measure and Analyse Phases: $Y=f(x)$, data collection planning (Kipling's Checklist), process mapping, the Pareto principle, sampling, data collection tools, MSA, sources of variation: cause and effect / fishbone diagrams, data collection plan to determine key contributors.
Session 5	Design of Experiments (practical session). (Ch 9).	Improve and Control Phase: generating, evaluating and selecting solutions, FMEA, PDCA cycle, mistake proofing techniques (poka yoka), visual management, control planning, Statistical Process Control (SPC), sustaining improvements.
Session 6	-	The 5 principles of Lean: value, the value stream, flow, pull, and perfection.
Sessions as needed	Project coaching	
	Project presentations	
	Six Sigma Green Belt Exam preparation	