

QT&T provides you with a thorough knowledge of Six Sigma philosophies and principles, including supporting systems and tools. A certified Black Belt exhibits team leadership, understands team dynamics, and assigns his/her team members roles and responsibilities. They have a complete understanding of the DMAIC model in accordance with Six Sigma principles, have a basic knowledge of lean enterprise concepts, and they can identify non-value-added elements and activities.

QT&T Six Sigma Black Belt Training is ideal for engineers, business unit manager, program managers, students, or anyone looking to get the most out of their career. Here are just some of the things you will learn in your black belt training:

- Six Sigma philosophy of process improvement
- Customer centered business
- Lean manufacturing
- Advanced statistics
- Coaching successful project teams
- Group/organizational assessment

👉 Black Belt Program Highlights

- Gives the participants a comprehensive knowledge of Six Sigma Methodology and the DMAIC process
- Enables participants to understand the role of a Black belt as a key change agent in their organizations
- Gives the participants a comprehensive understanding of Six Sigma applications by exposing them to examples from cross functions and cross industry
- Gives participants an understanding to Define, Scope and Work on Six Sigma Projects
- Gives participants an understanding to characterize a complex problem
- Enables participants to understand linkage between business priorities and Six Sigma
- Post training support for the projects through mails and web interactions

👉 Black Belt Curriculum

- Basics of Quality & Process
- Focus Areas of Six Sigma
- Introduction & Meaning of Six Sigma
- Evolution of Six Sigma- Hidden Factories
- Six Sigma in Industry
- Benefits of Six Sigma
- Types of Waste- Hidden Factories
- Role of a Black Belt



Define	Measure	Analyze	Improve	Control
Identification of Customer Pain Areas	Importance of Measurements	Concept of Root Cause	Improvement Action Planning	Developing a Control Plan
Voice of the Customer (VoC)	Operational Definition	Process Capability Analysis	Control Impact Matrix	Types of Control Plans- Audits, Dashboards
Ways of Capturing VoC	CTQ Drill Down Tree	Fish Bone Diagram and Pareto Analysis	Solution Design Matrix	Control Charts for Attribute Data
Quality Function Deployment (QFD)	Data Collection Plan	Detailed Process Mapping- Value Stream Mapping	Mistake Proofing	Control Charts for Continuous Data
Project Charter	Data Stratification and Segmentation	FMEA	Brainstorming	Process Audit Overview- How to Audit a Process on an ongoing basis
CAP Tools- ARMI, GRPI, Stakeholder Analysis	Data Types- Discrete and Continuous	Concept of P-Value	Benchmarking - Internal & External	Process Audit Checklist
	Mean, Median and Mode	Analyzing continuous data	Measurement System Analysis for Xs	
	Sampling Strategies	Concept of Normality and Stability	Updating Fish Bone, FMEA	
	Introduction to Process Mapping	Statistical tools and techniques- Analysis of Variance (ANOVA), Chi Square test, T-tests, Box Plots, Histograms etc.		
	Concept of Yield	Analyzing Non-Normal Data		
	Measurement System Analysis- Discrete Data	Correlation & Regression Analysis		
	Measurement System Analysis- Continuous data using Minitab			

👉 **Other Topics**
Project Closure

QT&T Consulting (Asia) Pte Ltd

Empowering People through Quality initiatives

To know more about Six Sigma
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