Green Belt Module 1

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Objectives for Green Belt Module 1

DEFINE

- Understand that the Voices of the Customer, Process, People and Stakeholder generate projects and how projects are identified
- Understand the dynamics of teamworking and how to form a balanced team
- Understand the concepts, framework and roles within Six Sigma and Lean
- Understand the process at high level

Key Deliverable – Define:
A well-supported, well-defined, well-justified and bounded project.

MEASURE

- Understand the importance of variation and its reduction to achieve better quality performance
- Be able to measure the ‘as is’ process capability (Sigma value), against which improvements will be judged
- Gain a deeper understanding of the nature of data and how to collect it properly
- Understand the importance of sampling and how to quantify sample size
- Undertake measurement systems analyses (Gauge R&R) to ensure data integrity
- Formulate a data collection plan
- Undertake preliminary graphical analysis of data using Minitab

Key Deliverable – Measure:
Collected data.

PROJECTS

- Live projects reviewed

Green Belt Module 2

Day 1	Day 2	Day 3
Introductions	Initial Project Presentations	Gauge R&R
Introductions and Intro to Six Sigma DMAICT	Measure Overview Stakeholder Analysis	
Forming the Team		Graphical Analysis
Lunch	**Lunch**	**Lunch**
Project Charter	Variation and Normal Distribution	Process Capability
Map 'As Is' Process and Customer Requirements, Review	Data Collection	Measure Review and Next steps
Review of day 1	Review of day 2	Review of day 3

Objectives for Green Belt Module 2

PROCESS ANALYSIS

- Be able to analyse an existing process through process mapping, work flow measurement, cycle time and value-added versus non value-added activity
- Understand how to identify waste and various ways of dealing with it

DATA ANALYSE

- Understand how conclusions about populations can be extracted from samples
- Understand the nature of the risks in this context and how to mitigate them
- Understand how Minitab can be used to perform data analysis
- Be able to establish with certainty the relationship between process variables and the process output (the Xs and Ys)

Key Deliverable:

- Verified true root causes of variation in process performance.
- Focus on the key variables that need to be changed or removed to improve process capability.

PROJECTS

- Live projects progress reviewed

Green Belt Module 3

Day 1	Day 2	Day 3
Introductions	Initial Project Presentations	Gauge R&R
Introductions and Intro to Six Sigma DMAICT	Measure Overview Stakeholder Analysis	
Forming the Team		Graphical Analysis
Lunch	**Lunch**	**Lunch**
Project Charter	Variation and Normal Distribution	Process Capability
Map 'As Is' Process and Customer Requirements, Review	Data Collection	Measure Review and Next steps
Review of day 1	Review of day 2	Review of day 3

Objectives for Green Belt Module 3

IMPROVE

- Be able to apply tools and techniques to generate several potential solutions
- Ability to select the best solution from alternatives, including criteria of cost-benefit, ease of implementation and customer focus
- Understand the importance of promoting and piloting the solution to minimise risk and maximise buy-in to the change
- Understand how to apply various forms of Design of Experiments to obtain a quantitative model for the performance metric(s) and truly understand the inter-relationships between the root causes of variation
- Recognise the application of hypothesis testing to prove that a difference has been made to a process
- Appreciate how to quantify and manage risks in implementation
- Develop robustness in the new process

Key Deliverable:

Well justified, cost effective, bought-into solution, successfully implemented with improved Sigma level of performance and quantified benefits.

Agenda

10-Day Green Belt Course

CONTROL

- Understand the importance of process monitoring to ensure sustainability of solution
- Understand how to choose and use appropriate tool from various control charts to monitor process performance
- Appreciate the impact of behaviours, rewards and measures on process performance

Key Deliverable:
Process monitoring and feedback mechanisms managed by the process owner.

TRANSFER

- Understand the importance and financial benefit of transferring solutions and disseminating learning throughout the organisation to multiply benefits

Key Deliverable:
Lessons learned are captured and disseminated and benefits multiplied.

PROJECTS

- Live projects progress reviewed