Six Sigma: Green Belt
with Dr. Richard Chua

Training Roadmap for *Six Sigma: Green Belt*

Videos	Courses		
	Six Sigma Foundations	*Learning Minitab*	*Six Sigma Green Belt*
Introduction to Six Sigma			
• What is Six Sigma?	X		
• An overview of DMAIC	X		
• Key roles of executive and champions	X		
• Levels of expertise	X		
• Six Sigma and the organization			X
Key Concepts in Six Sigma			
• Critical to quality metrics	X		
• Variation and the normal curve	X		
• Defects per million opportunities	X		
• Learn Sigma levels	X		
Selection of Six Sigma Projects			
• Identify potential projects	X		
• Project identification			X
• Select the Six Sigma team	X		

Define Phase			
• Steps in the Define phase	X		
• Problem and goal statements	X		
• Complete the project charter	X		
• How to use SIPOC diagrams	X		
• Collecting VOC (voice of the customer)			X
• Project management basics			X
Measure Phase			
• Steps in the Measure phase	X		
• How to map the current process	X		
• Types of process maps			X
• Plan for data collection	X		
• Sampling in data collection			X
• Types of data and graphs	X		
• Minitab overview		X	
• Display graphs and charts		X	
• Describe data with statistics		X	
• Descriptive statistics			X
• Graphical displays of data			X
• Measurement system analysis (MSA)	X		
• Validating the measurement system (MSA)			X
• Process capability and Sigma level	X		
• Process performance measures			X

Analyze Phase			
● Steps in the Analyze phase	X		
● How to use the cause-effect diagram	X		
● Introduction to hypothesis testing	X		
● How to analyze graphs and charts	X		
● How to analyze process maps	X		
● Hypothesis testing basics			X
● Data collection in the Analyze phase	X		
● Inferences on continuous data		X	
● Tests for means			X
● Tests for variances			X
● Inferences on categorical data		X	
● Tests for proportions			X
● Test of independence			X
● Correlation and linear regression			X
Improve Phase			
● Steps in the Improve phase	X		
● Introduction to design of experiments (DOE)			X
● Introduction to design for Six Sigma			X
● Generate, evaluate, and select solutions	X		
● Selection matrices			X
● Reduce the risk of failure through FMEA	X		

● How to use FMEA			X
● Mistake proofing	X		
● Pilot test and implement	X		
Control Phase			
● Steps in the Control phase	X		
● How to use SPC charts	X		
● SPC charts			X
● SPC charts of variables			X
● SPC charts for attributes			X
● The control plan	X		
● How to develop control plans			X
● Save and share your work using Minitab		X	