Six Sigma: Green Belt

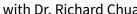




Training Roadmap for Six Sigma: Green Belt

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

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

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

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