Lean Six Sigma Belt Comparison Summary

Fri, 11/01/2013 - 12:37 — Chris

Have you ever wondered about the skill differences between a Lean Six Sigma (LSS) White Belt, Green Belt, Black Belt, and Master Black Belt? We have.

Applying classic internet research, I searched for information that would provide a competency comparison between each LSS belt type. Nothing readily presented itself using a web search, so I tried the American Society for Quality (ASQ - www.asq.org [1]) site to see if someone at ASQ had laid out the Body of Knowledge (BoK) by belt.   I couldn't find anything there either.

Our Analysis

Using the ASQ BoK as a guideline, we laid each competency area for each belt side by side. We also added additional detail specifically in the Theory of Constraints and Personal Excellence areas, where ASQ was lacking specifics.

	Level of Competency (Belts)				
	White	Yellow	Green	Black	Master Black
Enterprise Deployment					
Planning	Remember			Understand	Apply
Leadership	Remember	Remember	Understand	Apply	Evaluate
Process Management & Measurement		Remember	Understand	Apply	Apply
Change Management	Remember		Understand	Apply	Apply
Organizational Training					
Planning	Understand				Evaluate
Development	Remember				Evaluate
Effectiveness					Evaluate
Team Management					
Formation	Remember		Understand	Apply	Evaluate
Facilitation			Understand	Apply	Evaluate
Management	Remember		Understand	Apply	Evaluate
Empowerment	Remember		Understand	Apply	Evaluate
Define					
Voice of the Customer		Remember	Understand	Apply	Evaluate
Program Management				Understand	Apply
Project Management		Remember	Apply	Understand	Evaluate
Measure					
Process Characteristics	Remember	Remember	Evaluate	Evaluate	Evaluate
Data Collection		Remember	Apply	Evaluate	Evaluate
Measurement System	Remember		Understand	Apply	Evaluate
Probability & Statistics			Apply	Evaluate	Evaluate
System Capability			Evaluate	Evaluate	Evaluate
Analyze					
Measuring & Modeling			Understand	Apply	Evaluate
Hypothesis Testing			Apply	Evaluate	Evaluate
Root Cause Analysis			Understand	Evaluate	Evaluate
Waste Analysis	Remember	Remember	Apply	Evaluate	Evaluate
Risk Identification			Apply	Evaluate	Evaluate
Improve					
Design of Experiments			Understand	Evaluate	Evaluate
Lean Approaches	Remember	Remember	Apply	Evaluate	Evaluate
Theory of Constraints	Remember	Remember	Understand	Apply	Evaluate
Implementation	Remember		Apply	Evaluate	Evaluate
Control					
Control Design			Understand	Apply	Evaluate
Statistical Process Control			Apply	Evaluate	Evaluate
Visual Management		Remember	Apply	Evaluate	Evaluate
Control Plans			Apply	Evaluate	Evaluate
Sustainment			Understand	Apply	Evaluate
Design for Six Sigma					
Design Methods		Remember	Understand	Apply	Evaluate

Legend: ○ Remember   ◔ Understand   ◒ Apply   ◕ Analyze   ● Evaluate

[2]

We laid out nine competency areas, most of which are consistent with ASQ's nomenclature. WIthin each

area, we describe the level of competency required for each belt for the summarized skills within each skill area (34 skill areas total). The matrix provides an overview of the analysis - click on the image to get a larger version.

Underneath the summary, we've prepared a detailed analysis that further breaks down into one hundred sixty seven (167) competencies. Most of which are referenced in each ASQ Belt BoK. We used Bloom's Taxonomy to describe the level of cognition for each skill within each belt. Please feel free to explore the detailed [analysis] [3].

Our Programs

Ceptara provides training at each belt level and has built the programs based on the level of competency required to meet and exceed the ASQ's expectations. Within each program, we build the student's skills through instruction and exercises. We then provide a test preparation class so that the participant can pass the respective ASQ Certification exam. We conclude with a Capstone class, which provides structured mentoring designed to facilitate the student's application of their newly acquired skill while working on their own project.

If you'd like to learn more - please [contact] [4] us for a quick assessment of your training needs.

- [Quality Excellence](#) [5]

Source URL: http://ceptara.com/blog/lean_six_sigma_belt_comparison

Links:
[1] http://www.asq.org
[2] http://ceptara.com/sites/default/files/images/LSS%20BoK%20Comparison%20Summary%20v3.png
[3] http://ceptara.com/paper/LSS_belt_comparison_analysis
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