

Six Sigma Green Belt - CSSGB

Overview

The Six Sigma Green Belt operates in support or under the supervision of a Six Sigma Black Belt, analyzes and solves quality problems, and is involved in quality improvement projects. A Green Belt has at least three years of work experience and wants to demonstrate his or her knowledge of Six Sigma tools and processes.

Minimum Expectations for a Certified Six Sigma Green Belt:

- Operates in support of or under the supervision of a project sponsor or Six Sigma Black Belt.
- Analyzes and solves quality problems.
- Involved in quality or continuous improvement projects.
- Has at least three years of work experience in one or more areas of the Six Sigma Green Belt Body of Knowledge. Work experience must be in a full-time, paid role. Paid intern, co-op or any other course work cannot be applied toward the work experience requirement. Educational waivers are not granted.
- Has ability to demonstrate their knowledge of Six Sigma tools and processes.

Examination:

Each certification candidate is required to pass a written examination that consists of multiple-choice questions that measure comprehension of the Body of Knowledge. The Six Sigma Green Belt examination is a four-hour, 100-question exam. It is offered in the English language only.

Required Experience:

Six Sigma Green Belts are employees who spend some of their time on process improvement teams. They analyze and solve quality problems, and are involved with Six Sigma, lean, or other quality improvement projects. The Six Sigma Green Belt certification requires three years of work experience in one or more areas of the Six Sigma Green Belt Body of Knowledge. Work experience must be in a full-time, paid role. Paid intern, co-op, or any other course work cannot be applied toward the work experience requirement. Educational waivers are not granted.



Outline:

I Overview: Six Sigma and the Organization:

- a) Six Sigma and Organizational Goals.
- b) Lean Principles in the Organization.
- c) Design for Six Sigma (DfSS) Methodologies

II Define Phase

- a) Project Identification.
- b) Voice of the Customer (VoC).
- c) Project Management Basics.
- d) Management and Planning Tools.
- e) Business Results for Projects
- f) Team Dynamics and Performance.

III. Measure Phase:

- a) Process Analysis and Documentation.
- b) Probability and Statistics.
- c) Statistical Distributions.
- d) Collecting and Summarizing Data.
- e) Measurement System Analysis (MSA).
- f) Process and Performance Capability.

IV. Analyze Phase:

- a) Exploratory Data Analysis.
- b) Hypothesis Testing.

V. Improve Phase:

- a) Design of Experiments (DoE).
- b) Root Cause Analysis.
- c) Lean Tools.

VI. Control Phase:

- a) Statistical Process Control (SPC).
- b) Control Plan.
- c) Lean Tools for Process Control.

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