

Green Belt Capstone Project

This project builds on the work done in the Yellow Belt project. If you completed the Yellow Belt Specialization and its capstone project, you can add the new, **bolded** items in this project to your existing Yellow Belt project. If you **did not** complete the Yellow Belt Specialization capstone project, you will need to complete this entire assignment.

There are two supporting documents:

Project Charter

Team Charter

To complete this capstone, you will develop a plan for a six sigma project of your choosing. This should be a department or process level project.

- Define
 - Create a charter for a your project including:
 - Problem statement: should be concise, clear and measurable.
 - Business Case: Answer at least one question explaining why it is important.
 - Goal Statement: Overall goal of the project (SMART)
 - Improvement goals: At least two specific measures of success
 - Process description
 - Project scope: describe the specific boundaries of the project.
 - Who are the key stakeholders?
 - Who will the team members be? (at least 4)
 - Create a timeline
 - Create a charter for your project team
 - Develop a set of expectations (with your team's participation if possible).
- Measure
 - Create a data collection plan, Including both process and VOC data
 - What will you measure
 - What is the data type
 - **Execute the data collection plan**
- Analyze
 - Create a Process Map
 - Write null and alternative hypotheses for each of the measures you proposed (before and after improvement).
 - **Analyze your data using appropriate statistical methods and other process analysis tools.**
- Improve
 - **Identify possible improvements**
 - **Select One improvement**
- Control
 - **Develop a control plan based on the improvement you selected.**

These documents should be compiled into a single PDF file in the following order:

- Project Charter
- Team Charter
- Data Collection plan

- Process Map
- Hypotheses
- **Documentation of statistical analysis**
- **Documentation of other process analysis**
- **Document how you selected one improvement**
- **Control Plan**
- A short reflection on the lessons learned from the Green Belt training, and the capstone.

The combined document must be submitted as a PDF file type and submitted for peer review.