

DMAIC Basics Course Outline

Lesson 1 | Introduction

- What is DMAIC and how does it compare to other problem-solving models?

Lesson 2 | Define

- Establish a project (problem-solving) team and get the team started up.
- Develop the Problem Statement.

Lesson 3 | Measure

- Set up measurement systems so that the appropriate data needed to determine the root cause of the problem can be collected.
- Assess measurement systems to make sure they are reliable.

Lesson 4 | Analyze

- Use a systematic approach to collect, display, and analyze data to identify the root cause(s).
- Verify that the cause(s) identified is truly the root cause.
- Identify a solution to attack the root cause and correct the problem.

Lesson 5 | Improve

- Execute the problem solution.
- Develop simple and complex action plans.
- Use Gantt Charts to plan the implementation and monitor progress.

Lesson 6 | Control

- Ensure the solution is robust and well entrenched so that problem does not come back.
- Provide training and start audit practices to complete transfer of the solution to the process owners.

Challenge

- An assessment of the learner's progress in this course.