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Sign up

Lean Six Sigma DMAIC Workshop

2 days (14 hours)

Presentation

The Six Sigma DMAIC Workshop is an immersive format that enables you to apply the DMAIC method to a concrete case of process optimization.

Our training will enable you to manage a problem-solving process by following the five DMAIC steps: Define, Measure, Analyze, Improve, Control.

You'll learn how to identify root causes, structure your analyses, draw up effective action plans and guarantee the sustainability of the improvements implemented.

You will be able to try out the approach on a simulated or customized case study, mobilize the key tools and build a complete improvement plan with professional deliverables.

The DMAIC Workshop enables you to structure continuous improvement initiatives in technological, DevOps or IT environments, and to involve teams in a fact-based, collaborative and results-oriented dynamic.

At the end of this course, you will be able to actively participate in a Six Sigma project, understand the logic of a complete DMAIC cycle, and contribute to the sustainable performance of your organization's processes.

Like all our training courses, this one is based on up-to-date Lean Six Sigma best practices.

Objectives

- Apply the DMAIC method to a concrete case study
- Identify the root causes of an operational problem
- Use the key tools of structured problem solving

- Draw up an improvement plan and a control plan
- Develop a collaborative and data-driven team spirit

Target audience

- Project managers
- Product Owners
- Technical teams

Prerequisites

- No knowledge of Six Sigma required

Introduction to the DMAIC approach

- Six Sigma fundamentals
- DMAIC objectives and structure
- Key project roles (sponsor, facilitator, project team)
- Identifying a high-impact business problem
- Choosing and framing an improvement project

Define phase: define the problem

- Define project scope, objectives and deliverables
- Analyze customer expectations (VoC / CTQ)
- Draw up a structured project charter
- Use the SIPOC tool to frame the process
- Identify stakeholders and critical factors
- Workshop: Drawing up a project charter + SIPOC mapping on a tech case

Measure phase: understanding the current situation

- Business process mapping (VSM, flowchart)
- Determine relevant measurement points
- Collect and validate performance data
- Use variability and quality indicators
- Visualize data using simple tools (Pareto, histogram)

Phase Analyze: identify root causes

- Construct an Ishikawa diagram
- Apply the 5 Whys method
- Test hypotheses using available data

- Identify critical causes (X) with an impact on results (Y)
- Prioritize factors to be corrected

Improve phase: deploy solutions

- Generate solutions with the project team
- Evaluate options with an Effort/Impact matrix
- Plan a test or pilot deployment
- Involve stakeholders in implementation
- Measure the effects of change
- Workshop: Building an improvement plan + presenting recommendations

Control phase: sustaining results

- Draw up a simple, operational control plan
- Define tolerance thresholds and monitoring indicators
- Create or update work standards
- Implement visual tools (control charts, checklists)
- Close a DMAIC project and capitalize on lessons learned

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new, advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire enabling us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.