LEAN SIX SIGMA TRAINING

Lean Six Sigma Green Belt

Format:

- Pre-Req: completion of Lean Thinker and Lean Problem Solver
- Green Belt Program (8 weeks + Project)
  - Flipped Classroom Model: 12 hours of online content (1-2 hours per week) + 8 hours of group reflection sessions (1 hour per week)
  - 80% or above score on Green Belt exam
  - Completion of process-level DMAIC project

Audience:

- Advanced front line team members

Description:

The Lean Six Sigma Green Belt program is an investment program for team members who have a desire to help solve problems within their work teams and functional areas.

Lean Six Sigma Black Belt

Format:

- Pre-Req: completion of Green Belt
- Black Belt Program (2 weeks + Project)
  - Instructor-Led Virtual: 2 weeks (4 hours/day)
  - 80% or above score on Black Belt exam
  - Completion of value-stream level DMAIC project (6 – 12 months)

Audience:

- Continuous Improvement and Transformation Leaders

Description:

The Lean Six Sigma Black Belt program is an investment program for leaders who have a desire to lead strategic business improvements using change management, advanced analytical skills, and project management

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LEAN SIX SIGMA BLACK BELT COURSE

Format:

- Blended: On-Site or virtual Workshop + Individual Coaching

Duration:

- 11-23 weeks overall from course start to project completion
- Two Weeks | Workshop + Kaizen Project

Languages:

- English

Certification:

- Prerequisites:
  - Read: "People: Building, Managing & Sustaining Lean Organizations"
  - Complete: LSS Green Belt Certification
- Submit Process Improvement Project
- Available for print or download. Digital Credly badges can be added to social media profiles and/or email signatures

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LEAN SIX SIGMA BLACK BELT COURSE AGENDA

Black Belt Week 1	
DAY 1 - Monday	
Module	**MIN**
Welcome and Review of Black Belt Agenda and Expectations	60
Leading Change - The Problem Solving Culture	60
Break	15
Project Elevator Speech	30
Project Failure Modes and Effects Analysis (Green Belt Project Reflection)	60
End of Session PDCA	15
DAY 2 - Tuesday	
Module	**MIN**
Review of Day 1 and Completion of FMEA	45
Review of DMAIC and the Define Phase	30
Uncovering Opportunities - Introduction to Value Stream Mapping	60
Break	15
Value Stream Mapping Practice	75
End of Session PDCA	15
DAY 3 - Wednesday	
Module	**MIN**
Review of Day 2	15
Current State Mapping - Value Stream Mapping Planning	90
Break	15
Project Selection - Identifying Critical Variables and Prioritizing	60
Define the Project - Review of Project Charter Inputs	45
End of Session PDCA	15
DAY 4 - Thursday	
Module	**MIN**
Review of Day 3	30
Stakeholder Analysis and Communication Plan	90
Break	15
Review of the Measure Phase	15
Understand and Measure the Process	30
Baseline Process Capability and Potential - DPMO	15
Baseline Process Capability and Potential - Cp and CpK	30
End of Session PDCA	15
DAY 5 - Friday	
Module	**MIN**
Review of Day 4	30
Measure Process Behavior - Control Charts	90
Break	15
Measure Defects - Pareto Analysis Review	30
Coaching Process Mapping, Fishbone, 5 Why	60
End of Session PDCA	15

Black Belt Week 2	
DAY 1 - Monday	
Module	**Start**
Welcome and Review of Black Belt Project Progress (Risks and Concerns)	60
Hypothesis Testing Overview - Developing Null and Alternate Hypothesis Statements	20
Data Collection Planning	45
Break	15
Measurement System Analysis	90
End of Session PDCA	10
DAY 2 - Tuesday	
Module	**Start**
Review of Day 1	10
Hypothesis Testing - Confidence Intervals, Rejection Regions, and p-values	90
Break	15
Data Sampling	45
Review of Minitab and Types of Hypothesis Tests	10
t-tests: 1-Sample, Paired, and 2-Sample	60
End of Session PDCA	10
DAY 3 - Wednesday	
Module	**Start**
Review of Day 2	35
Analysis of Variance (ANOVA)	60
Contingency Tables (chi-square test)	45
Break	15
Simple Linear Regression	45
Hypothesis Testing for Non-Normal Data	30
End of Session PDCA	10
DAY 4 - Thursday	
Module	**Start**
Review of Day 3	15
Review of Improve and Control Phase Checklist	10
Design of Experiments for Testing Potential Solutions	90
Break	15
Lean Principles for Stability and Flow	100
End of Session PDCA	10
DAY 5 - Friday	
Module	**Start**
Review of Day 4	15
Management Systems and The 6 Control Methods - The Control Plan	90
Break	15
Project Working Session - Identify Next Steps and Coaching Schedule	90
End of Workshop Review and Next Steps	30

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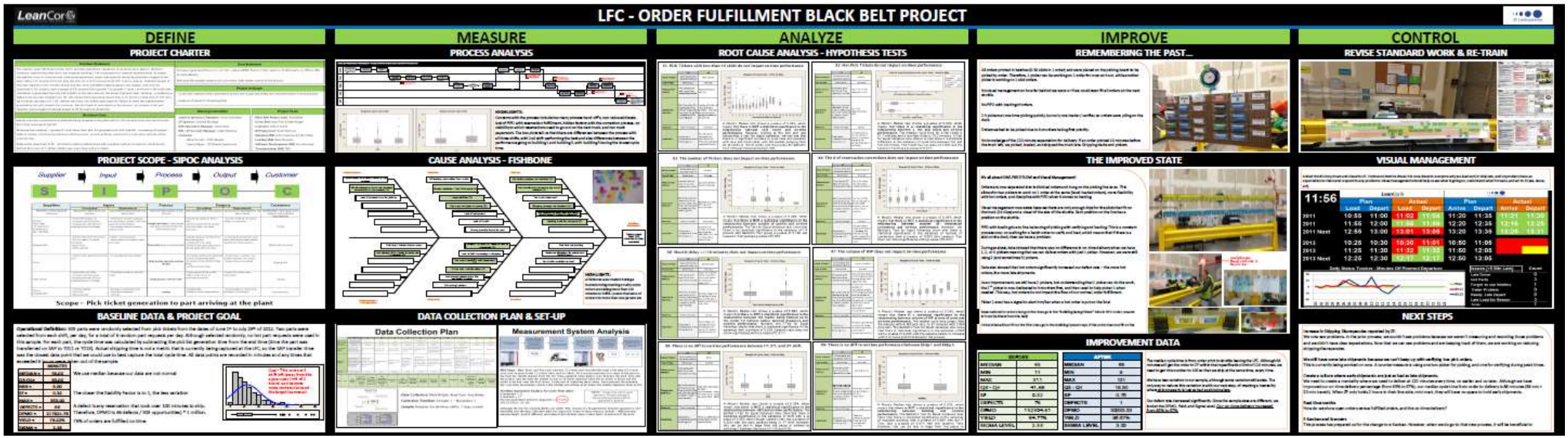
FINISHED BLACK BELT PROJECT EXAMPLE

STORYBOARD TEMPLATE AND TOOLS PROVIDED TO STUDENTS



Students will use this storyboard to complete and present their project and change management story.

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