HEROTEC
NETWORK PROFESSIONAL TRAINING

Lean Six Sigma Yellow Belt

Related Certificate	Lean Six Sigma
Audience	• Process Development Engineers • Operating System Specialists • Business Process Analysts • Data Scientists • Project Engineers
Duration	24 hours

Introduction

- The Certified Lean Six Sigma Yellow Belt is a professional who is well versed in the foundational elements of the Lean Six Sigma Methodology, who leads limited improvement projects and / or serves as a team member as a part of more complex improvement projects lead by a Certified Green Belt or Certified Black Belt, typically in a part-time role.
- In This Lean Six Sigma Yellow Belt Certification Training course you will Learn all of the elementary aspects of the Lean Six Sigma Method including competence in the subject matters contained within the phases of Define, Measure, and Control (DMC) as defined by the Lean Six Sigma Yellow Belt Body of Knowledge™.
- A Lean Six Sigma Yellow Belt understands how to implement, perform, interpret and apply Lean Six Sigma in a skilled yet limited and / or supportive context.

Course Outline.

Lean:

- Lean history
- Waste & spaghetti chart
- Lean Culture
- Lean house
- Lean Principles
- Specify Value
- Identify the value stream
- Flow
- Pull
- Perfection
- Mura & muri
- Kaizen

Six sigma:

- Why is six sigma
- Six sigma history
- What is six sigma
- Six sigma levels
- Six sigma methodology
- Roles & responsibilities
- Case study

Define Phase:

- **Define Problem**
- Who is the customer?
- VOC (Voice of customer)
- CTQ (Critical to quality)
- Workshop 1 (Process map)
- Workshop 2 (process requirements)
- Workshop 3 (Process Improvement)18
- Select project problem.
- **Select Process**
- process map.
- Workshop
- Define Project metrics
- DPU
- FTY
- RTY

- COPQ, 18
- **Identify stakeholders**
- Quality Tool >> SIPOC
- Workshop
- Power Interest Matrix
- Workshop
- **Project charter**
- Workshop

Measure Phase:

- **Process Discovery (Define all Possible Xs)**
- Affinity Diagram
- Workshop
- Fishbone Analysis
- Workshop
- Process Mapping (LEVEL 2)
- Value stream mapping
- Workshop 30
- **Select Vital few (Xs)**
- X-Y Matrix.
- Failure mode and effect analysis (FMEA)
- Workshop
- Pareto
- **Six sigma Statistic (How your processes speak to you?)**
- Statistical Notation
- Data types
- Normal Distribution
- None-Normal Distribution34
- **Prepare data Collection plan**
- Workshop
- **Validating measurement system (MSA).**
- Introduction
- Sources of Variation
- Accuracy VS Precision
- Accuracy Errors
- Precision Errors
- Measurement errors
- MSA Minitab Methods 37
- **Execute data collection plan.**
- **Measure process capability & sigma level.**
- Process Capability
- Process Behavior
- Problem Solving Options
- Measure process capability & sigma level.
- Capability Analysis
- Short term VS Long term study
- Process long term shifting
- Capability Formula
- Capability Steps
- Attribute Capability Steps
- Z Score
- Attribute Capability Example

Improve:

- Brainstorming to create solutions.
- 5S
- Visual management VM
- Kanban System
- Poka Yoke

Control:

- Control the process
- Standardization of process
- RACI Matrix
- Control plan
- Project summary
- Project benefits

For more details click here

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