Lean Six Sigma Training Programs

Green Belt Training

Green Belt Program provides participants with essential Lean Six Sigma knowledge to lead improvement projects. Training includes all basic methods and tools for Lean Six Sigma Green Belt project management, problem solving, process analysis, process improvement and statistics.

Green Belt training consists of four modules spread over four months. Total training days in four months are 12. Green Belt candidates are required to participate the training with a true project from their business environment, success of which will be able to be measured also by the financial impact of the project. Between each week of trainings, progress of the projects will be reviewed by MATRIS MBB's and coaching feedback report is shared with Lean Six Sigma management.

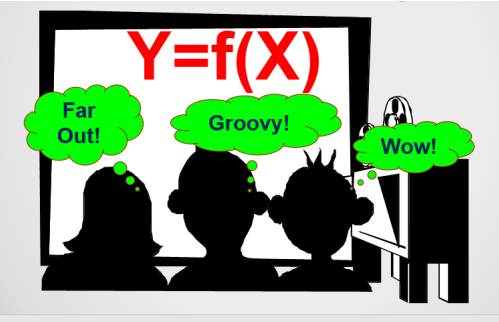
*Candidates who can demonstrate required skills during in-class practices, at intermediate exams at the end of each training module, at the final exam after the training and who can successfully complete first project deserves the "**Successful Green Belt Certificate**".*

Training Duration: *12 days*

Who Can Participate: *Employees who are experienced, respected, have leadership qualities, are dynamic and have been assigned a real project by their organization.*

Required Hardware: *Laptop*

Required Software: *Microsoft Office applications and Minitab 21*

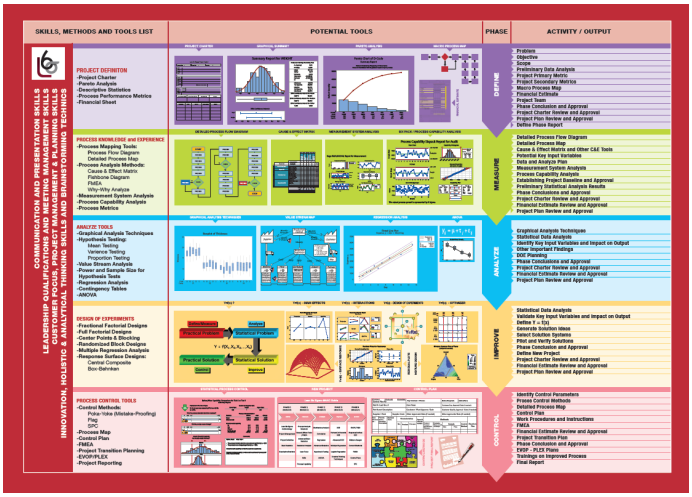


"Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write"

H. G. Wells

Module 1 (3 days):

- Basic Statistics
- Lean Six Sigma and DMAIC methodology
- Project Definition -Project Description Document
- Project Management
- Process Metrics – Voice of the Customer
- Process Flow Chart and Process Map
- Communication and Conflict Management
- Kaizen



Virtual Classroom and Exercises

Statistic Simulation

Project Prioritization Simulation

Process Capability Simulation

Cause-Effect Simulation

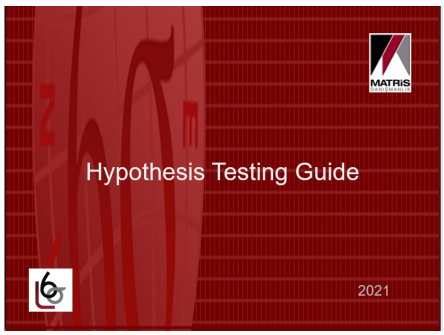
Process Analysis Exercise

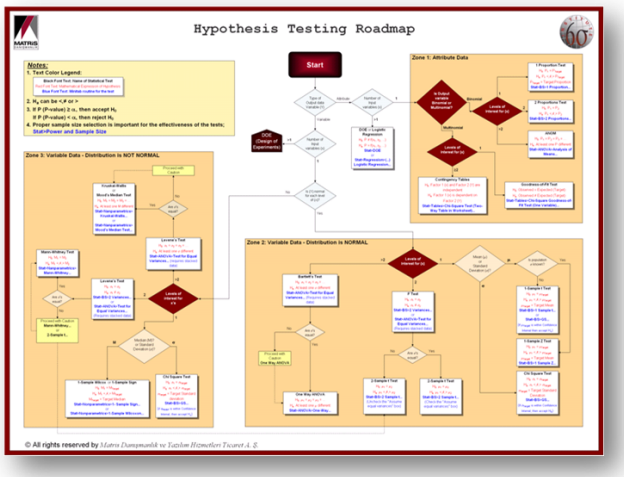
Module 2 (3 days):

- Advanced Basic Statistics
- Process Analysis – Lean Techniques
- Value Stream Analysis
- 5S & Visua
- Cause and Effect Tools
- Process Capability Analysis
- Graphic Analysis Techniques
- Process Capability / Performance Analysis

Module 3 (3 days):

- Measurement System Analysis (MSA)
- SMED
- Central Limit Theorem
- Confidence Intervals
- Introduction to Hypothesis Testing
- Hypothesis Testing:
    - **Means**
    - **Variances**
    - **Proportions**





Virtual Classroom and Exercises

MSA Simulation

CLT Simulation

Hypothesis Testing Case Studies

Sample Size Simulation

Control Plans Simulation

Regression Analysis Simulation

Module 4 (3 days):

- Sample Sizes for Hypothesis Tests
- Regression and Correlation
- Generating Solutions
- One-way ANOVA
- DOE—Introduction to Design of Experiments
- Control Plans & FMEA
- Statistical Process Control
- Project Closure