

# PROCESS IMPROVEMENT

S P E C I A L I S T

Become a  
**Problem Solver**  
in a Fast-Paced  
Career



**New Horizons**<sup>®</sup>  
*Learn What Earns*



## Process Improvement Specialist – Six Sigma Green Belt

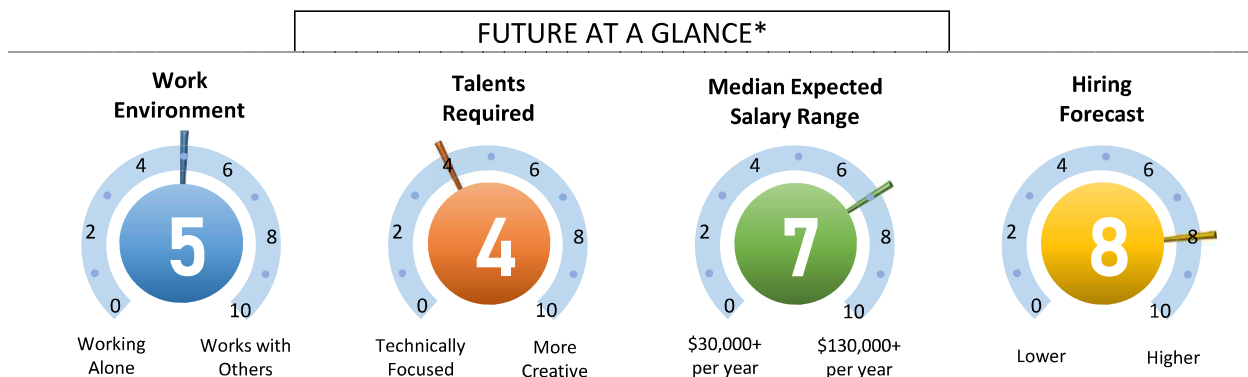
Start a career in operational improvement and quality control by taking the LEAN – Six Sigma Green Belt training course. LEAN – Six Sigma is an internationally recognized process for companies worldwide to improve their business operations. The process helps reduce waste, improve profits, and increase customer satisfaction. The story is in the statistics, so if you enjoy numbers and problem solving, this job is a perfect fit. In this course, you'll learn the concepts, vocabulary and tools needed to participate in a Six Sigma Project. The course is aligned with the ASQ BOK (Body of Knowledge) and it's accredited by the Council for Six Sigma Certifications. This training will result in an industry-recognized certificate.

**What will you do with it?** As a LEAN – Six Sigma Green Belt, you would partner with a more senior LEAN – Six Sigma Black Belt on a project or process improvement assignment. With the goal of stakeholder satisfaction, you'll analyze and measure the company's activities to enhance the process and accomplish the desired goal. Daily, you'll analyze market or customer data and develop process improvement procedures. With this basic training and on the job experience you'll be on the path for a career in operational improvement and leadership.

### Personal Skills Needed

- Critical Thinking
- Reading Comprehension
- Active Listening
- Speaking
- Deductive Reasoning
- Written Comprehension

### Does this job fit you?



\* According to the U.S. Department of Labor. A proud partner of the [americanjobcenternetwork](http://americanjobcenternetwork.com).

Your New Understanding and Skills Include:

- Basics of ASQ BOK (Body of Knowledge)
- Six Sigma concepts and vocabulary
- Six Sigma project flow and planning tools

Other Career Paths Available But Not Limited To:

- Business Intelligence Analyst
- Director of Market Intelligence
- Process Improvement Specialist
- Director of Enterprise Strategy
- Commercial Intelligence Manager
- Quality Control Analyst

Program Includes:

- 32 hours of live Lean Six Sigma Green Belt Certification Training (with free re-take option)
- Preparatory Materials for the Certification Exams (1)
- Practice Exams for the Certification Exams (1)
- Certification Exams: *Lean Six Sigma Green Belt*
- Over 30 professional published works covering areas such as:

FMEA	Lean Principles	Team Dynamics
Project Identification	Voice of the Customer	Sampling and Collection
Stakeholder Impact	Root Cause Analysis	Statistical Process Control

Successful Completion of this Program Includes:

- Learning the skills needed to become Certified Lean Six Sigma Green Belt
- Earning the Lean Six Sigma Green Belt Certification Designation
- Learning a multitude of interpersonal, professional, and process improvement skills to help you become successful in your new career!
- (Program includes access for 1 year to over 1,900 published works in Business Development to assist you even after you are employed in your new career.)

Program Format: Online (in person) and self-study

Time: 4 Weeks

Cost: \$4,690



Classes and materials provided by New Horizons of Wisconsin, the state's largest technology and business skills training organization. All classes are certified and/or authorized by the developer.

This program is approved by the Wisconsin Department of Workforce Development and is listed on the Eligible Training Provider List (ETPL) Portal.



### A Short Background

Six Sigma was developed by Bill Smith in 1986. Then an engineer at Motorola aimed to help improve the company's devices which didn't meet the quality standards at the time. He based the approach on statistical and quality control methods taught by Walter Shewhart, Ronald Fisher, and Edwards Deming.



### Benefits of Six Sigma Certification for Individuals



Lean Six Sigma professionals are in high demand due to their ability to use problem-solving techniques to reach business solutions and assuring quality control throughout the process.

The Lean Six Sigma Green Belt certification is ideal for system managers, engineers, supervisors, analysts and managers, auditors, and any individual wishing to improve quality and process within an organization.

Certified Six Sigma Green Belt (CSSGB) certification establishes professionals' skills on data-driven approach and methodology for eliminating defects in any process across industries. Six Sigma certification demonstrates one's ability to achieve operational excellence and process improvement to potential employers.





# Lean Six Sigma *Live* Training

## **1 - LEAN SIX SIGMA INTRODUCTION**

- Introduction to Lean Six Sigma
- Overview Lean Six Sigma Principles & Terminology
- Roles and Responsibilities in a Lean Six Sigma Organization
- Value Stream Maps
- 5S
- 7 Wastes
- Project Selection

## **2 - DEFINE PHASE**

- Voice of Customer
- Project Charter
- Process Mapping (high level and detailed mapping)

## **3 - MEASURE PHASE**

- Selecting Measures:  $Y=f(x)$
- Data Collection Planning
- Baseline Data Collection
- Basic Statistics

## **4 - ANALYZE PHASE**

- Process Analysis (Non-Value Add vs. Value Add)
- Graphical Analysis
- Determining Root Cause

## **5 - IMPROVE PHASE**

- Lean Solution Concepts: Standard Work, Batch Size Reduction, Work Cells, Kanban, Pull Systems and Kaizen Events
- Brainstorming Solutions to Address Root Cause
- Solution Selection, Pilot and Implementation
- Improvement Data Capture

## **6 - CONTROL PHASE**

- Monitoring, Revision and Response Plans
- Mistake Proofing and Visual Management
- Replication

## **7 - GREEN BELT PRACTICE TEST**

Online Learning



Learning Anytime

This portion of your job skills program focuses on helping your personal improvement, which will help you succeed in the future. Below you will find the detailed listing of dozens of hours of professionally created and delivered content that will provide you with the additional skills that you will need to succeed at your new career! This is your On-Line Anytime (OLA) library, and you will have access to these titles, and thousands more, for a full year!

Asset Type	Title	Code	Estimated Duration (mins)
Courses	Applying Value Stream Mapping in Lean Business	<a href="#">oper 46 a04 bs enus</a>	26
Courses	Basic Probability and Statistical Distributions in Six Sigma	<a href="#">oper 26 a02 bs enus</a>	102
Courses	Basics of Hypothesis Testing and Tests for Means in Six Sigma	<a href="#">oper 41 a02 bs enus</a>	120
Courses	Basics of Six Sigma Project Management	<a href="#">oper 25 a03 bs enus</a>	113
Courses	Capturing the Attention of Senior Executives	<a href="#">comm 49 a01 bs enus</a>	31
Courses	Common DFSS Methodologies, Design for X, and Robust Designs	<a href="#">oper 44 a01 bs enus</a>	120
Courses	Creating and Using Control Charts in Six Sigma	<a href="#">oper 29 a02 bs enus</a>	133
Courses	Cycle Time Reduction and Kaizen in Six Sigma	<a href="#">oper 28 a03 bs enus</a>	79
Courses	Data Classification, Sampling, and Collection in Six Sigma	<a href="#">oper 26 a03 bs enus</a>	96
Courses	Data Types, Sampling, Collection, and Measurement in Six Sigma	<a href="#">oper 40 a02 bs enus</a>	140
Courses	Design for Six Sigma and FMEA	<a href="#">oper 24 a03 bs enus</a>	102
Courses	Design of Experiments in Six Sigma	<a href="#">oper 28 a01 bs enus</a>	86
Courses	Designing, Conducting, and Analyzing Experiments in Six Sigma	<a href="#">oper 42 a02 bs enus</a>	120
Courses	Determining Process Performance and Capability in Six Sigma	<a href="#">oper 40 a06 bs enus</a>	119
Courses	Determining Requirements by Listening to the Voice of the Customer in Six Sigma	<a href="#">oper 39 a01 bs enus</a>	121
Courses	FMEA and Other Nonstatistical Analysis Methods in Six Sigma	<a href="#">oper 41 a05 bs enus</a>	120
Courses	Fundamentals of Lean and Six Sigma and their Applications	<a href="#">oper 36 a01 bs enus</a>	119
Courses	Hypothesis Tests for Variances and Proportions in Six Sigma	<a href="#">oper 27 a03 bs enus</a>	113
Courses	Impact on Stakeholders and Benchmarking for Six Sigma	<a href="#">oper 37 a01 bs enus</a>	89
Courses	Introduction to Hypothesis Testing and Tests for Means in Six Sigma	<a href="#">oper 27 a02 bs enus</a>	116
Courses	Inventory Management: Aligning Inventory with Production and Demand	<a href="#">oper 45 a04 bs enus</a>	30
Courses	Lean and Six Sigma	<a href="#">oper 11 a01 bs enus</a>	120
Courses	Lean Improvement Methods and Implementation Planning in Six Sigma	<a href="#">oper 42 a03 bs enus</a>	116
Courses	Lean Principles and Six Sigma Projects	<a href="#">oper 24 a02 bs enus</a>	131
Courses	Lean Tools and FMEA in Six Sigma	<a href="#">oper 33 a01 bs enus</a>	68
Courses	Lean Tools for Process Control in Six Sigma	<a href="#">oper 29 a03 bs enus</a>	70
Courses	Measurement System Analysis in Six Sigma	<a href="#">oper 26 a05 bs enus</a>	89
Courses	Measuring and Modeling Relationships between Variables in Six Sigma	<a href="#">oper 41 a01 bs enus</a>	90
Courses	Multi-vari Studies, Correlation, and Linear Regression in Six Sigma	<a href="#">oper 27 a01 bs enus</a>	88
Courses	Multivariate Tools and Nonparametric Tests in Six Sigma	<a href="#">oper 41 a04 bs enus</a>	105
Courses	Operations Management Functions and Strategies	<a href="#">oper 45 a01 bs enus</a>	31
Courses	Optimizing Operations Using Demand Forecasting and Capacity Management	<a href="#">oper 45 a05 bs enus</a>	31
Courses	Performance Metrics for Six Sigma	<a href="#">oper 25 a05 bs enus</a>	79
Courses	Probability and Probability Distributions in Six Sigma	<a href="#">oper 40 a05 bs enus</a>	120
Courses	Process and Performance Capability Measurement in Six Sigma	<a href="#">oper 26 a06 bs enus</a>	90
Courses	Process Documentation and Analysis in Six Sigma	<a href="#">oper 26 a01 bs enus</a>	53
Courses	Process Flow Metrics and Analysis Tools for Six Sigma	<a href="#">oper 40 a01 bs enus</a>	105
Courses	Root Cause Analysis and Waste Elimination in Six Sigma	<a href="#">oper 28 a02 bs enus</a>	93
Courses	Six Sigma and Lean Foundations and Principles	<a href="#">oper 30 a01 bs enus</a>	100
Courses	Six Sigma and Organizational Goals	<a href="#">oper 24 a01 bs enus</a>	113
Courses	Six Sigma Business Case, Project Charter, and Tools	<a href="#">oper 39 a02 bs enus</a>	130
Courses	Six Sigma Management and Planning Tools	<a href="#">oper 25 a04 bs enus</a>	102
Courses	Six Sigma Measurement Systems and Metrology	<a href="#">oper 40 a03 bs enus</a>	120
Courses	Six Sigma Project Identification	<a href="#">oper 25 a01 bs enus</a>	96
Courses	Six Sigma Project Selection, Roles, and Responsibilities	<a href="#">oper 36 a02 bs enus</a>	110
Courses	Six Sigma Project Team Dynamics and Performance	<a href="#">oper 25 a06 bs enus</a>	94
Courses	Six Sigma Strategic Planning and Deployment	<a href="#">oper 36 a03 bs enus</a>	150
Courses	Six Sigma Team Basics, Roles, and Responsibilities	<a href="#">oper 30 a02 bs enus</a>	84
Courses	Six Sigma Team Dynamics and Training	<a href="#">oper 38 a03 bs enus</a>	125
Courses	Six Sigma Team Dynamics, Roles, and Success Factors	<a href="#">oper 38 a01 bs enus</a>	117
Courses	Six Sigma Team Facilitation and Leadership	<a href="#">oper 38 a02 bs enus</a>	125
Courses	Statistical Process Control (SPC) and Control Charts in Six Sigma	<a href="#">oper 43 a01 bs enus</a>	120
Courses	Statistical Process Control and Control Plans in Six Sigma	<a href="#">oper 29 a01 bs enus</a>	110
Courses	Statistics and Graphical Presentation in Six Sigma	<a href="#">oper 26 a04 bs enus</a>	60
Courses	Strategic Product and Service Management	<a href="#">oper 45 a02 bs enus</a>	27
Courses	Supply Chain Management Basics: Cutting Costs and Optimizing Delivery	<a href="#">oper 45 a03 bs enus</a>	28
Courses	Sustaining Six Sigma Improvements	<a href="#">oper 43 a03 bs enus</a>	137
Courses	Tests for Variances and Proportions, ANOVA, and Goodness-of-fit in Six Sigma	<a href="#">oper 41 a03 bs enus</a>	120
Courses	Understanding DOE and Planning Experiments in Six Sigma	<a href="#">oper 42 a01 bs enus</a>	118
Courses	Using Basic Statistics and Graphical Methods in Six Sigma	<a href="#">oper 40 a04 bs enus</a>	121
Courses	Using Business and Financial Measures in Six Sigma	<a href="#">oper 37 a02 bs enus</a>	120
Courses	Using Lean Control Tools and Maintaining Controls in Six Sigma	<a href="#">oper 43 a02 bs enus</a>	121
Courses	Using Lean to Improve Flow and Pull	<a href="#">oper 46 a02 bs enus</a>	22
Courses	Using Lean to Perfect Organizational Processes	<a href="#">oper 46 a01 bs enus</a>	23
Courses	Using Lean to Reduce Waste and Streamline Value Flow	<a href="#">oper 46 a03 bs enus</a>	22
Courses	Voice of the Customer in Six Sigma	<a href="#">oper 25 a02 bs enus</a>	127
Courses	Mentoring Six Sigma KnowledgeCenter	<a href="#">mntsixsigmac</a>	0
Courses	TestPrep Six Sigma Green Belt (SSGB)	<a href="#">oper ssgb a02 tp enus</a>	240

**Your New Career Starts Today!**

