Yellow Belt in Lean Six Sigma - Online Course

Certification
On successful completion of this program, Participants will be certified as Lean Six Sigma Yellow Belts. Certification is awarded by Florida Atlantic University, USA, by achieving the following:

- Complete the online training course, including all exercises and assignments during the course.
- Complete a 50-question online exam at the end of the course with a grade of 70% or higher in the exam.

The Certificate will be sent by post to the successful Participant, it includes the Participants name and course title. Successful Participants also earn 14 PDU's.

Overview
The course is available to Participants for a 2 month period, during this time you have full access to the course content. You can study at your own pace and on your own schedule as long as you fulfill the workload that is assigned weekly. Your online instructor is available for guidance, discussions and to give you feedback on your course work throughout the duration of the course (online support). The course is delivered using The Blackboard Academic Suite. Blackboard software has become the most popular and proven online learning solution in the world.

Overall Course Goals

- Provide an overview of Lean Six Sigma concepts and the Define-Measure-Analyse-Improve-Control (DMAIC) process.
- Learn to apply basic process improvement methods within each step of the DMAIC framework.
- Learn new approach to solving problems and improving product and service delivery.
- Show how Lean Six Sigma is applied in the real world.
- Prepare you to be an effective team member on a Lean Six Sigma project.
- Assess your level of learning through exercises and practical application.
- Help you decide if you want to pursue the Lean Six Sigma Green Belt and Black Belt certification.
- Help you achieve your personal, job and career goals.

Learning Objectives
At the end of this course, you will be able to:

- Understand Lean Six Sigma and its application.
- Understand the benefits and impact of Lean Six Sigma.
- Follow the five-step Define-Measure-Analyse-Improve-Control problem solving process.
- Describe process inputs and process outputs in terms of Y = f(X).
- Articulate process performance in the language of Lean Six Sigma.
- Explain the roles and responsibilities of Executives, Champions, Master Black Belts, Black Belts, Green Belts and Yellow Belts.
- Identify additional project stakeholders for Lean Six Sigma projects.
- Draw a Supplier-Input-Process-Output-Customer (SIPOC) diagram and a process map.
- Identify Critical-to-Quality Characteristics (CTQ's).

- Provide examples of CTQ's for products and services you are familiar with.
- Assess the Voice of the Customer and discover quality needs.
- Compile CTQ's and their measures.
- Classify data as continuous or discrete.
- Understand the issues involved in Measurement Systems Analysis.
- Collect accurate and useful data while avoiding common data collection problems.
- Visually display data and interpret the results using a histogram and a Pareto chart.
- Prepare a cause-and-effect diagram and perform root cause analysis.
- Distinguish between value-added and non-value-added steps in a process, and give examples of different types of non-value-added steps.
- Create and interpret a scatter diagram.
- Conduct a brainstorming session.
- Use multi-voting and/or the nominal group technique to establish priorities or narrow down options.
- Prepare an affinity diagram.
- Perform a Failure Modes and Effects Analysis.
- Select an improvement solution from the available alternatives.
- Document the process with standardized work instructions and procedures.
- Close the project.

Who should attend?
This course is intended for all employees and individuals wanting to gain a firm understanding in Lean Six Sigma methodologies, and how these can be used to identify and implement process improvements in their everyday working environments.

Gains for Individual:
- Career advancement
- Personal growth
- Increased self-esteem and confidence
- Increased level of job performance
- Improved marketability

Gains for Companies:
- Growth and advancement
- Create an improvement environment with proven tools
- Increase level of performance through your most important asset, your employees
- Achieve organisational excellence in business process improvement
- Excellent Return on Investment (ROI)

Prerequisites
None

Textbook
The textbook for this course is entitled *What Is Six Sigma* by Pande and Holpp and is sent by post to the Participants postal address on receipt of payment.

Software and Computer Requirements
None