Introduction to Lean Six Sigma

Course Content and Outline

SUMMARY

MoreSteam University offers the Introduction to Six Sigma online course as a high quality and high flexibility alternative to traditional training programs. All course material is available online, so sessions may be started and stopped at any point - content is delivered on-demand according to the demands of your schedule.

This course provides an overview of Six Sigma concepts and language and an introduction to the Define-Measure-Analyze-Improve-Control process improvement cycle. The Six Sigma Overview course is comprised of one session with interactive practice modules and an online quiz.

LEARNING OBJECTIVES

The overall learning objective of this course is to provide a first step toward successful implementation of Lean Six Sigma methods by developing familiarity with the basic concepts and language of Lean Six Sigma.

After completing this course, you should be able to do the following:

- Communicate using Lean Six Sigma concepts.
- Relate Lean Six Sigma concepts to the overall business mission and objectives.
- Accept the need to improve organizational performance to meet the requirements of the marketplace.
- Use the concept of a Sigma Level to evaluate the capability of a process or organization.
- Think about your organization as a collection of processes, with inputs that determine the output.
- Recognize the five step D-M-A-I-C model used to improve processes.
- Recognize the organizational factors that are necessary groundwork for a successful Lean Six Sigma program.
- Understand how Lean Methods and Six Sigma are integrated into a single process improvement initiative to achieve higher quality and greater process speed.

COURSE STRUCTURE AND REQUIREMENTS

MoreSteam courses provide content-on-demand to offer the highest degree of student flexibility. You can set your own schedule and progress at your own speed, terminating and re-entering sessions whenever you wish.

All course sessions use a mix of multimedia to present material, including text, synchronized audio slide shows, diagrams, charts, audio lectures, and simulations. Links to outside research resources

are provided to explore chosen subjects in greater detail. Course access is provided for **365 days** beginning at the time of enrollment.

As you work through the course you will be asked to demonstrate knowledge and understanding in four ways:

- Interactive **Practice Exercises** will be presented throughout each session so that you can try your new skills and get immediate feedback.
- **Supplemental Exercises** will be presented at the end of every session to practice new concepts. Supplemental Exercises are self-graded and may be shared in the Virtual Classroom Discussion area.
- **Quizzes** will be conducted at the end of every session. Quizzes are interactive and provide immediate feedback to close the learning loop.
- **Green Belt Project:** We strongly suggest that a meaningful project should accompany this coursework. The learning experience will be enhanced significantly if concepts and tools are practiced on a real-world project as the course is completed. Successful project work is also required for any certification process.

COURSE SEQUENCE

The course is presented in a logical sequence to follow the Six Sigma DMAIC improvement process. We believe that you will learn most efficiently by following the sequence presented. In particular, the first session presents an overview of Six Sigma, which will be helpful to put the remaining sessions in proper context.

However, the sessions are modular, and we encourage you to explore the material. You are free to move forward and backward throughout the course. You can skip ahead or go back and review material that you already covered. The course map feature allows you to move point to point, from anywhere to anywhere. The course map status column will tell you which pages you have visited.

CERTIFICATE OF COMPLETION

Upon completion of this course (review of all lessons and completion of quiz modules), MoreSteam will provide you with a certificate of training completion.

COURSE MATERIALS

Materials Provided by MoreSteam

- The course content includes a host of reference materials, video tutorials, practice data sets for engaging in statistical analysis, and an easily printed workbook for both note taking and additional exercises.

- This course includes one year of access to the web-based version of MoreSteam's EngineRoom®® data analysis and process improvement tool. Additional access time is available for purchase.

Materials Provided by Student/Company

- MoreSteam eLearning is provided entirely online, all you need to access and make use of the course content is an internet connection, a modern browser and spreadsheet software.
- The course content requires that any pop-up blockers be disabled.

SUPPORT

- Use the on-screen help features (e.g., glossary of terms and site search) for information.
- You can contact the course Instructor by emailing during regular business hours to request assistance.
- For general technical support, visit our support page under the "My Account" link.

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