

Data Analytics for Lean Six Sigma

COURSE OVERVIEW

Focusing on the integration of statistical analysis, data visualization, and problem-solving techniques, this course helps participants identify trends, measure process performance, and uncover root causes of inefficiencies. In addition, the course equips professionals with the knowledge and tools needed to apply data-driven decision-making within Lean Six Sigma projects. Participants will become familiar with data analytics tools to support DMAIC (Define, Measure, Analyze, Improve, Control) methodologies and drive continuous improvement.

WHO SHOULD ATTEND?

This course is ideal for Lean Six Sigma practitioners, quality managers, process improvement specialists, business analysts, and operations professionals involved in performance improvement initiatives. It also benefits team leaders and decision-makers who want to enhance their ability to interpret data and drive measurable results. Anyone looking to strengthen their data analysis skills to support Lean Six Sigma projects whether at the Yellow, Green, or Black Belt level, will find this course highly valuable.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the role of data analytics in Lean Six Sigma and continuous improvement projects.
- Apply statistical tools and techniques to support each phase of the DMAIC methodology.
- Collect, organize, and interpret data to identify trends, patterns, and root causes of process issues.
- Use data visualization tools to present findings clearly and effectively to stakeholders.
- Perform hypothesis testing and regression analysis to support data-driven decisions.
- Measure process capability and identify areas for improvement using key performance indicators.
- Leverage software tools (e.g., Excel, Minitab, or Python) for analyzing processed data.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Integrating data analytics with Lean Six Sigma methodologies
- Identifying trends and measuring process performance
- Root cause analysis using statistical techniques
- Data-driven decision-making in DMAIC projects
- Using data visualization and analytics tools for continuous improvement

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded