



EXECUTIVE EDUCATION SIX SIGMA GREEN BELT

OVERVIEW

UniSA's Six Sigma Green Belt program has been developed in alignment with the American Society for Quality (ASQ) standards and prepares participants to become certified as a Six Sigma Green Belt.

This program will develop Green Belts to provide value within the organisation's Six Sigma initiative in a variety of ways. Participants of this program will be prepared to serve on Black Belt project teams to help collect and analyse data, develop process maps, assist the Black Belt in certain levels of statistical analysis and develop experimental designs for projects. These activities serve to both support and accelerate project progress, which helps to maximise the organisation's return on its investment and adds capacity to deliver a greater number of breakthrough improvement projects throughout the company.

SNAPSHOT

Program Length.....10 Days
(2 x 5-day modules)

Who is this program suited to?

Improvement project facilitators, change managers and consultants and mid-level leaders.

Also available as a tailored program for organisations.

PROGRAM BENEFITS

Individual

- Become equipped with the skills and knowledge to boost organisational performance and bottom line profits through increased efficiency, productivity and competitiveness;
- Identify how to eliminate waste and defects by learning how to execute and apply the Lean and Six Sigma methodologies;
- Collect, analyse, and quantify data that enables process improvements;
- Achieve improvement project outcomes within your organisation;
- Identify how to collect process data and develop process maps. Learn from American Society for Quality certified Master Black Belts who are hands-on practitioners with extensive experience of Six Sigma application.

Organisational

- Six Sigma can lead to significant reduction in and often elimination of defective processes;
- Green Belts serve as the work team for Black Belt projects, collecting and analysing data, developing process maps and in carrying out design of analysis and experiments;
- Improvements translate directly to immediate and dramatic financial profitability;
- Support and accelerate progress in every project to help maximise the organisation's return on investment, adding capacity and a greater number of breakthrough improvement projects.

ASSESSMENT

There is no assessment; however, participants will have the knowledge required to attempt the American Society for Quality Certified Six Sigma Green Belt Exam. Upon successful completion of the program, participants will be awarded a Certificate of Completion.

ENROLMENT

Enrolments for the Six Sigma Green Belt program can be submitted via the online enrolment platform. To learn more or enrol in the program, please visit unisa.edu.au/six-sigma-green-belt

PROGRAM OUTLINE

The program is a blend of lecture-style sessions, application of theory, and individual and team-based exercises over the two blocks of five-days. You will be trained in the use of the Six Sigma methodologies to achieve breakthrough improvements in quality.

Week 1: **Lean principles and Six Sigma Theory**

- Understanding Six Sigma
- Six Sigma Fundamentals
- Selecting Projects
- Elements of Waste
- Process Discovery
- Six Sigma Statistics
- Measurement System Analysis
- Process Capability

Week 2: **Data Analysis, Experimental Design and Process Mapping**

- Inferential Statistics
- Intro to Hypothesis Testing
- Hypothesis Testing Normal Data
- Process Modelling Regression
- Designing Experiments
- Lean Controls
- Statistical Process Control - SPC
- Six Sigma Control Plans

EQUIPMENT

Participants are required to bring their own laptop. The current version of Minitab software will be installed on the first day of the program for a trial period of 30-days.

"A well-paced dive into Six Sigma tools and methodology; understanding not only the how but the why, supported by comprehensive learning materials and practical learning opportunities throughout. Applying statistical problem solving techniques to our embedded lean approach to improvements will add greater value to ensure sustainable and effective changes, ultimately bettering the Member experience we offer."

Yvette French, Manager: Business Improvement, RAA of SA Inc.

