

**Design for Six Sigma Top-Up
For Green Belts and Black Belts
Training Programme Outline**

Summary: A programme suitable for Six Sigma Green and Black Belts designed to increase skills in the robust development of new products, services or processes. The curriculum compliments Capella's Green and Black Belt programmes. The standard format allows delegates to apply their learning to live projects and to take advantage of our coaching support enabling bottom-line business benefits to be delivered and a first project to be completed within the timeframe of the programme.

Aimed at: Anyone who wants to develop new products, services or processes

Prior qualifications/experience: Six Sigma Green Belt training or equivalent is essential

Duration: 4 days plus 0.5 day follow-up

Objectives: By the end of the programme, participants will be able to:

- Recognise and apply Design For Six Sigma methodologies to appropriate projects
- Select and apply Design for Six Sigma tools, interpret results and draw robust conclusions
- Confidently develop new products, services and processes

Content:

<p><u>Day 1 – Identify</u> DFSS Methodologies Opportunity Statements Voice of Customer and Kano Financial analysis Project Risk Assessment QFD/House of Quality Data Collection Design Scorecards DFMEA</p> <p><u>Day 2 - Design</u> Key Function Mapping Graphical Analysis Hypothesis testing Regression analysis TRIZ Pugh Selection matrix</p>	<p><u>Day 3 - Optimise</u> DOE Taguchi RSM</p> <p><u>Day 4 Validate</u> Tolerance Analysis Reliability Analysis Maintainability Error Proofing Control tools Case study activity</p>
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Leadership and Personal Development, Strategic Management, Lean Six Sigma & Quality Tools