

Virtual Online - Lean Six Sigma Black Belt



In a nutshell

A Personal Learning Account is a new initiative from the Welsh Government. It is a free and flexible way to learn. The initiative will offer people the chance to access free, part-time courses that offer flexible and convenient learning around their existing lifestyle.

The Lean Six Sigma Black Belt course was developed for individuals looking to be trained to an advance level in Lean Six Sigma methodologies. This course will equip you with the skills and knowledge needed to successfully lead complex improvement projects in all areas of a business.

This course is for...

...anyone over 19, living in Wales, in employment and earning less than £26,000 a year.

...anyone who already holds Green / Yellow Belt qualifications.

...anyone who is currently working in more senior job positions such as Team Leader, Project Manager or Quality Assurance Engineer roles.



COURSE INFORMATION LEAFLET

Course content

The course includes:

Lean Fundamentals
Six Sigma Fundamentals
Voice of the Customer (VoC)
SIPOC
Introduction to Value and Value Stream Mapping
Identifying Waste
Introduction to Flow and Pull
Root Cause Analysis
Exam Practice Quiz

DMAIC methodology
Introduction to Six Sigma Statistics
Measurement System Analysis
Introduction to Statistical Process Control (SPC)
Exam Practice Quiz

Introduction to Minitab
Pareto Charts and 80/20 rule
Kano Analysis
Pugh and other X-Y Matrices
Six Sigma Statistics
Measurement System Analysis

Process Capability
Inferential Statistics
Correlation and Regression Analysis
Intro to Hypothesis Testing
Design of Experiments
Mock exam practice

Review of mock exam and exam preparation

The Role of a Black Belt
Advanced use of DMAIC
Risk Analysis for Black Belts
Change Management
Hypothesis Testing Non-Normal Data

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COURSE INFORMATION LEAFLET

Advanced Regression Analysis

Advanced Design of Experiments

Fractional Factorial Experiments

Response Surface Methods and Method of Steepest Ascent / Descent

Prep Black Belt exam #2 (equivalent to Green Belt)

Review of mock exam

Final exam preparation

There will be a Lean Six Sigma (Black Belt) Exam.

Entry Requirements

Candidates must have trained for their Lean Six Sigma Green Belt Qualification before enrolling on this course.

Additional information

This course is for three months.

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