IASSC Accredited Lean Six Sigma Black belt Self-paced course with Examination

Description: This Black Belt training is designed to be 100% online and self-paced. It is structured in 5 sections that follow the DMAIC methodology (Define, Measure, Analyze, Improve, Control). Each section contains several content units that are professionally narrated and interactive eLearning modules. Each module is followed by a 10 question interactive quiz.

At the end of each DMAIC phase is a chapter test and at the conclusion of the entire course is a certification exam. You must view all eLearning modules, pass all quizzes, tests and the certification exam to achieve your Lean Six Sigma certification. The certification exam can be taken twice and must be passed with a score of 80% or better.

To efficiently navigate through the course you will need to become familiar with a few key navigational components. 5 key areas are listed below:

1. Lesson Controls: You must advance each slide manually for all lesson modules by clicking the play button or forward/back buttons.

2. Action Icons: Report errors, set bookmarks, advance to the next lesson etc.

3. Lesson View: Each time you click this button your view will change (default view, full screen view or index view)

4. Lesson Material: This is the entire course curriculum. You can expand or collapse the views for each phase to show or hide its lessons. Clicking any lesson will open it. You may follow the suggested sequence or jump around if you prefer. All lessons must be viewed, all quizzes must be passed and all tests must be passed to achieve certification. Lessons will take 5-15 seconds to load depending on your connection speed.

5. Progress Bar: The progress bar will show your percentage of units complete. Each lesson will "auto complete" by simply launching it. The quizzes and tests must be passed to receive completion credit. All passing grades are 80% or better. Below the progress bar there are two completion rules. Completion rule #1 is that you must see all units. Completion rule #2 is the you must pass all tests (including quizzes). When both completion rules are met you will have satisfied course completion requirements.

Contents:

Define Phase:
1.1 Six Sigma Overview
1.1.1 What is Six Sigma
1.1.2 Six Sigma History
1.1.3 Y = f(x) Approach
1.1.4 Six Sigma Methodology
1.1.5 Roles & Responsibilities
1.2 Fundamentals of Six Sigma
1.2.1 Defining a Process
1.2.2 VOC & CTQ's
1.2.3 QFD
1.2.4 Cost of Poor Quality
1.2.5 Pareto (80:20 rule)
1.3 Lean Six Sigma Projects
1.3.1 Six Sigma Metrics
1.3.2 Business Case & Charter
1.3.3 Project Team Selection
1.3.4 Project Risk Management
1.3.5 Project Planning
1.4 Lean Fundamentals
1.4.1 Lean & Six Sigma
1.4.2 History of Lean
1.4.3 The Seven Deadly Muda
1.4.4 Five-S (5S)

Measure Phase:
2.1 Process Definition
2.1.1 Cause & Effect Diagrams
2.1.2 Cause & Effects Matrix
2.1.3 Process Mapping
2.1.4 FMEA
2.1.5 Theory of Constraints
2.2 Six Sigma Statistics
2.2.1 Basic Statistics
2.2.2 Descriptive Statistics
2.2.3 Distributions & Normality
2.2.4 Graphical Analysis
2.3 MSA
2.3.1 Precision & Accuracy
2.3.2 Bias, Linearity & Stability
2.3.3 Gage R&R
2.3.4 Variable & Attribute MSA
2.4 Process Capability
2.4.1 Capability Analysis
2.4.2 Concept of Stability
2.4.3 Attribute Capability
2.4.3 Discrete Capability
2.4.4 Monitoring Techniques

Analyze Phase:
3.1 Patterns of Variation
3.1.1 Multi-Vari Analysis
3.1.2 Classes of Distributions
3.2 Inferential Statistics
3.2.1 Understanding Inference
3.2.2 Sampling
3.2.3 Sample Size
3.2.4 Central Limit Theorem
3.3 Hypothesis Testing
3.3.1 Hypothesis Testing Goals
3.3.2 Statistical Significance
3.3.3 Risk; Alpha & Beta
3.3.4 Types of Hypothesis Test
3.4 Hyp Tests: Normal Data
3.4.1 One and Two Sample t-tests
3.4.2 One Sample Variance
3.4.3 One Way ANOVA
3.5 Hyp Tests: Non-Normal
3.5.1 Mann-Whitney & Mood's Median
3.5.2 Kruskal-Wallis
3.5.3 Moons Median
3.5.4 Friedman
3.5.5 1 Sample Sign
3.5.6 1 Sample Wilcoxon
3.5.7 1 and 2 Proportion
3.5.8 Chi-Squared
3.5.9 Test of Equal Variances

Improve Phase:
4.1 Simple Linear Regression
4.1.1 Correlation
4.1.2 X-Y Diagram
4.1.3 Regression Equations
4.1.4 Residuals Analysis
4.2 Multiple Regression
4.2.1 Non-Linear Regression
4.2.2 Multiple Linear Regression
4.2.3 Confidence Intervals
4.2.4 Residuals Analysis
4.2.5 Box Cox Transformation
4.2.6 Stepwise Regression
4.2.7 Logistic Regression
4.3 Designed Experiments
4.3.1 Experiment Objectives
4.3.2 Experimental Methods
4.3.3 DOE Considerations
4.4 Full Factorial Experiments
4.4.1 2k Full Factorial Designs
4.4.2 Linear & Quadratic Models
4.4.3 Orthogonal Designs
4.4.4 Model & Center Points
4.5 Fractional Factorials
4.5.1 Designs
4.5.2 Confounding Effects
4.5.3 Experimental Resolution

Control Phase:

5.1 Lean Controls
5.1.1 Control Methods for 5S
5.1.2 Kanban
5.1.3 Poka-Yoke
5.2 SPC
5.2.1 Data Collection for SPC
5.2.2 I-MR Chart
5.2.3 Xbar-R Chart
5.2.4 U Chart
5.2.5 P Chart
5.2.6 NP Chart
5.2.7 X-S chart
5.2.8 CumSum Chart
5.2.9 EWMA Chart
5.2.10 Control Methods
5.2.11 Control Chart Anatomy
5.2.12 Variation & Sampling
5.2.13 Control Limits
5.3 Six Sigma Control Plans
5.3.1 Cost Benefit Analysis
5.3.2 Control Plan Elements
5.3.3 Response Plan

Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: IASSC Accredited Lean Six Sigma Black belt Self-paced course with Examination
Web Address: http://www.researchandmarkets.com/reports/3757836/
Office Code: SCH35R1J

Product Format
Please select the product format and quantity you require:

Quantity

Online Access
(Lifetime Access) - Single User: [ ] USD 580

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [Mr] [ ] [Mrs] [ ] [Dr] [ ] [Miss] [ ] [Ms] [ ] [Prof] [ ]
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World