



CSSGB Six Sigma Green Belt Exam Preparation Course



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Introduction:

CSSGB Six Sigma Green Belt exam preparation is a 1-week course for quality engineering staff, process improvement staff, operations supervisors and data analysts, ending with a Green Belt Exam Readiness Scorecard and DMAIC Tool Reference Sheet. Many organisations train staff in improvement tools, yet project teams still choose the wrong measure, misread variation or lose gains once a project closes, because tool selection across the DMAIC phases is uneven. Nominees already take part in improvement or problem-solving work and practise on case data and timed questions from several sectors. CoreConcept Training Center delivers this CSSGB Six Sigma Green Belt course.

Course Objectives:

- Explain the six sections of the CSSGB Body of Knowledge and how Six Sigma links to organisational goals and KPIs
- Define an improvement opportunity using a project charter, SIPOC, voice of the customer and CTQ requirements
- Measure process performance with a data collection plan, measurement system analysis and process capability indices
- Analyse causes of variation using hypothesis tests, correlation, regression and root cause tools
- Select and control improvements using lean tools, statistical process control and a control plan
- Compile a Green Belt Exam Readiness Scorecard and DMAIC Tool Reference Sheet from timed practice results

Target Audience:

- Quality engineering staff responsible for inspection data, defect analysis and process capability studies
 - Process improvement staff who support or run Green Belt level improvement projects
 - Operations supervisors responsible for line performance, waste reduction and standard work
 - Project team members who collect data and test solutions within DMAIC projects
 - Data analysts who prepare performance reports and statistical summaries for operations
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Course Outline:

Day 1: Six Sigma and the Organisation

- CSSGB Body of Knowledge Sections and Exam Weighting Overview
- Six Sigma Roles Belts Sponsors and Process Owners
- SMART Goals KPIs and Organisational Performance Alignment
- Lean Concepts Takt Time Just-in-Time and Gemba
- Value Stream and Spaghetti Diagram Waste Identification

Day 2: Define and Measure Phase Tools

- Project Charter Scope Business Case and Toll-Gate Reviews
- Voice of the Customer Kano Model and CTQ Trees
- SIPOC Work Breakdown Structure and RACI Matrix Construction
- Data Collection Plan Data Types and Sampling Choices
- Measurement System Analysis Using Gage R&R Studies

Day 3: Measure and Analyze Phase Statistics

- Descriptive Statistics and Probability Distribution Selection Basics
- Process Capability Indices Cp Cpk Pp and Ppk
- Hypothesis Testing for Means Proportions and Variances
- Correlation and Simple Linear Regression Interpretation
- Root Cause Tools Fishbone Five Whys and FMEA

Day 4: Improve and Control Phase Methods

- Design of Experiments Factorial Basics for Green Belts
- Lean Improvement Tools SMED Kaizen and Pull Systems
- Statistical Process Control Chart Selection and Rules
- Control Plan Standard Work Andon and Jidoka Safeguards
- Total Productive Maintenance and Predictive Maintenance Practices

Day 5: Case Study Practice and Exam Readiness

- Case Study Defining and Measuring a Service Delay
 - Case Study Analysing Defect Data from Manufacturing
 - Timed Practice Question Set Across Six BoK Sections
 - Wrong Answer Review and Formula Recall Drills
 - Green Belt Exam Readiness Scorecard and Reference Sheet Completion
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Skills You Will Gain:

- Project Charter Drafting
- Customer Requirement Translation
- Gage R&R Interpretation
- Process Capability Assessment
- Statistical Hypothesis Testing
- Control Chart Selection
- Waste Identification
- Exam Time Management

Why Attend This Course:

- Hand a Green Belt Exam Readiness Scorecard and DMAIC Tool Reference Sheet to the line manager or improvement lead to agree study support
- Choose the right statistical test, chart or capability index for a given data set and question
- Prevent wasted project effort caused by unreliable measurement, misread variation or gains lost after handover
- Share DMAIC tool selection logic and SPC rules with project team members and shift supervisors

Conclusion:

Back at work, the participant reviews the Green Belt Exam Readiness Scorecard with the line manager or improvement lead, who uses it to allocate study time and assign the participant to improvement work that exercises the weakest sections. Project teams can use the DMAIC Tool Reference Sheet when choosing measures, tests and charts. After the first improvement project or practice exam that follows, the manager and participant should review section scores and tool choices and revise the scorecard.

Frequently Asked Questions FAQ:

What should participants know before a CSSGB Six Sigma Green Belt exam preparation course?

Participants should have taken part in improvement or problem-solving work and be comfortable with basic algebra and spreadsheets. Reading the current CSSGB Body of Knowledge and bringing a set of process data from their own area helps them link the statistics to real work.

How does a CSSGB Six Sigma Green Belt exam preparation course differ from a Lean Six Sigma Black Belt course?

A Black Belt course prepares people to lead complex projects with advanced statistics and to coach other belts. This course reviews the Green Belt Body of Knowledge section by section, focuses on tool selection and interpretation, and builds exam readiness through timed practice.

Which sections does the CSSGB Six Sigma Green Belt Body of Knowledge cover?

The CSSGB Body of Knowledge has six sections: an overview of Six Sigma and the organisation, followed by the Define, Measure, Analyze, Improve and Control phases. The Define and Measure phases carry the largest share of exam questions.

What do participants take back from a CSSGB Six Sigma Green Belt exam preparation course?

Participants take back a Green Belt Exam Readiness Scorecard showing results per section, a DMAIC Tool Reference Sheet linking each phase to its tools and formulas, worked case study data and a reviewed set of timed practice questions.