LEAN SIX SIGMA CERTIFICATION TRAINING CAMP

# IASSC Green Belt

## Certified Lean Six Sigma Green Belt (ICGB™)

thinQtank® LEARNING



### OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Course-specific thinQtank® Learning publications to make the learning fun and engaging
- Extended hours of training, including scenario-based exercises
- **We do not teach the test.** We always deliver valuable, practical experience
- All reading material and study guides sent to you when you register
- Every course taught by certified instructors with real-world experience
- Retake any or all portions of the course for 24 months, in person or live online

### TRAINING CAMP FORMAT

**thinQtank® Learning** delivers this course as a **five-day instructor-led training camp**, one DMAIC phase per day, with hands-on statistical exercises throughout and exam preparation on the final afternoon. The balance of lecture and exercises is set to suit the group and the delivery method.

### PREREQUISITES

- No formal prerequisites
- Comfort with basic math and spreadsheets is strongly recommended
- A Yellow Belt is helpful but not required

### TARGET AUDIENCE

- Process owners, analysts and engineers who lead improvement projects
- Quality, operations and manufacturing professionals
- Project managers who want data-driven tools
- IT and service managers improving processes and service levels
- Service members, veterans and military spouses using AF COOL, Army Credentialing Assistance, MyCAA or VET TEC 2.0

### EXAM

**IASSC Certified Lean Six Sigma Green Belt (ICGB™)**

| | |
|---|---|
| **Questions** | 100 multiple choice / true-false |
| **Duration** | 180 minutes |
| **Passing score** | 70% |
| **Format** | Closed book; formula reference provided on screen |
| **Delivery** | PeopleCert online proctored exam |
| **Renewal** | Every three years |

Questions are spread about evenly across Define, Measure, Analyze, Improve and Control.

### COURSE OVERVIEW

**thinQtank® Learning** is offering a unique five-day training camp comprised of five days of instructor-led learning that gives students the knowledge and skills needed to lead Lean Six Sigma improvement projects — the full DMAIC method from defining the problem with data, through measurement, analysis and hypothesis testing, to regression, statistical process control and control plans.

Green Belts lead improvement projects inside their own area and support larger Black Belt projects. The camp covers the complete IASSC Green Belt Body of Knowledge with hands-on statistical exercises every day, so students leave able to run a project and defend their conclusions with data.

**This course prepares students to take the IASSC Certified Lean Six Sigma Green Belt (ICGB™) exam.**

### WHAT YOU WILL BE ABLE TO DO

- Pass the IASSC ICGB™ exam on the first attempt
- Lead a DMAIC improvement project in your own area
- Measure a process and test whether your measurement system can be trusted
- Use hypothesis tests and regression to prove what drives a result
- Put controls in place so improvements stick

### COURSE OBJECTIVES

Primary course objectives:

- Select and scope projects with the Y = f(X) approach and the voice of the customer
- Calculate DPU, DPMO, first-time yield and rolled throughput yield
- Map processes with SIPOC, value stream maps and FMEA
- Run measurement system analysis and process capability studies
- Analyze patterns of variation, sampling and the central limit theorem
- Apply hypothesis tests to normal and non-normal data
- Use correlation and simple and multiple regression
- Build control charts and control plans
- Apply 5S, kanban and mistake proofing to sustain results

### EXCLUSIVE LEARNING PACKAGE

- ICGB™ reading plan and review guide
- ICGB™ practice exams
- Statistical exercise workbook and data sets
- Course video recordings for review
- Six months mentoring access to our instructors after completing the course

### DELIVERY METHODS

- Instructor-led training
- Immersive live-online training
- On-site and custom delivery

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## ICGB™ EXAM AT A GLANCE

| 100 | 180 | 70% | 5 |
|---|---|---|---|
| Questions | Minutes | Passing score | DMAIC phases, about 20 questions each |

## COURSE MODULES

### 01 Define

- Project selection and Y = f(X)
- Voice of the customer and cost of poor quality
- Pareto, DPU, DPMO, FTY and RTY; the seven wastes and 5S

### 02 Measure

- SIPOC, value stream maps and FMEA
- Descriptive statistics and normality
- Measurement system analysis and process capability

### 03 Analyze

- Patterns of variation
- Sampling and the central limit theorem
- Hypothesis testing for normal and non-normal data

### 04 Improve and Control

- Correlation, simple and multiple regression
- Lean controls: 5S, kanban and mistake proofing
- Control charts and control plans

### A Appendices

- Appendix A: Booking and taking the IASSC exam
- Appendix B: Formula and table reference
- Appendix C: Glossary of Lean Six Sigma terms

## PUBLIC CLASS SCHEDULE

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|---|---|---|---|---|---|
| **Jan 04 – Jan 08, 2027** | Sterling, VA | **May 03 – May 07, 2027** | Sterling, VA | **Sep 13 – Sep 17, 2027** | Sterling, VA |
| **Jan 25 – Jan 29, 2027** | Atlanta, GA | **May 24 – May 28, 2027** | Atlanta, GA | **Oct 04 – Oct 08, 2027** | Atlanta, GA |
| **Feb 22 – Feb 26, 2027** | Burbank, CA | **Jun 21 – Jun 25, 2027** | Burbank, CA | **Oct 25 – Oct 29, 2027** | Burbank, CA |
| **Mar 08 – Mar 12, 2027** | Sterling, VA | **Jul 12 – Jul 16, 2027** | Sterling, VA | **Nov 15 – Nov 19, 2027** | Sterling, VA |
| **Mar 29 – Apr 02, 2027** | Atlanta, GA | **Aug 02 – Aug 06, 2027** | Atlanta, GA | **Dec 06 – Dec 10, 2027** | Atlanta, GA |
| **Apr 19 – Apr 23, 2027** | Burbank, CA | **Aug 23 – Aug 27, 2027** | Burbank, CA | | |

Every public class is also available live online. Private on-site classes can be scheduled for any week; call 855-TO-THINQ.

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