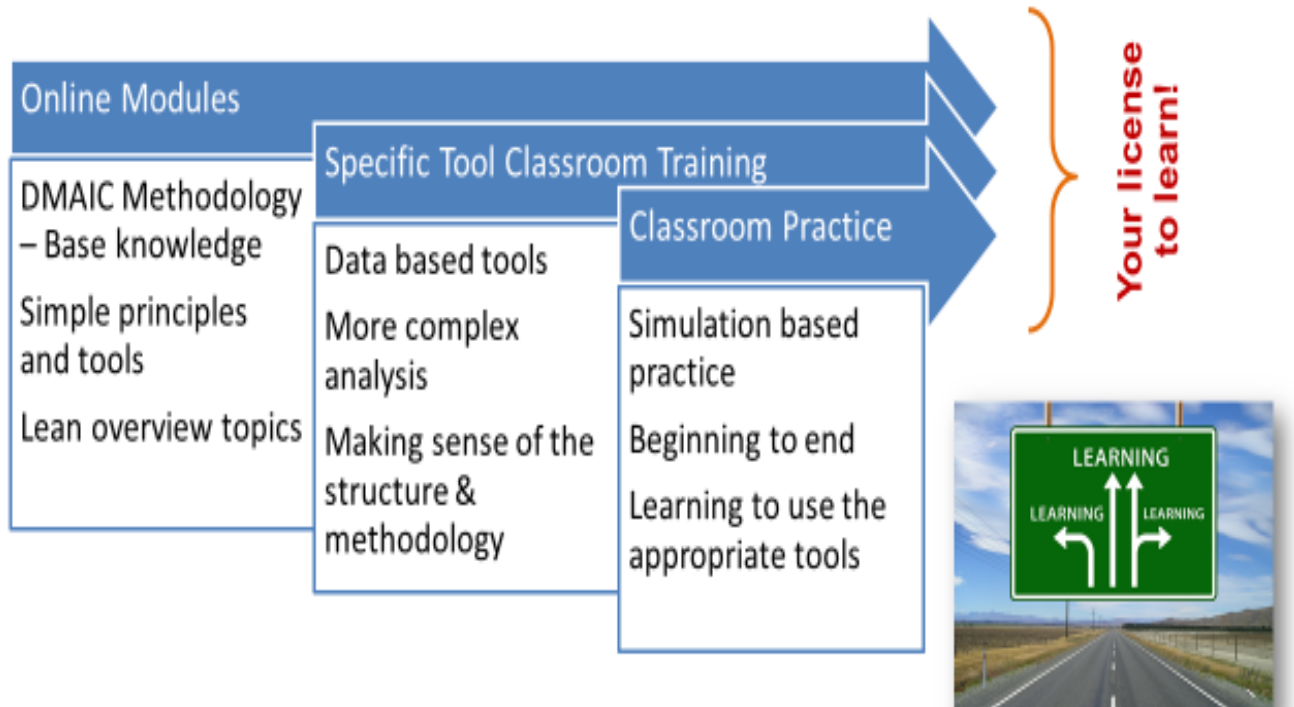## COURSE OUTLINE | USC Six Sigma Green Belt Certificate Program

The Six Sigma Green Belt program is an in-depth, interactive learning experience that combines online modules with online classroom learning. Our Six Sigma program is based on a case study approach so that participants apply training directly to a real-world example.

The program is structured in the following way:

- **Week 1**: 13-26 hours of mandatory self-paced online modules and 6-12 hours of optional modules to prepare for Week 2 of virtual classroom training

- **Week 2**: 10 hours of instructor-led online training class sessions scheduled Monday – Friday from 6:30 – 8:30 pm

- **Week 3**: 10-21 hours of self-paced online modules to prepare for Week 4 of virtual classroom training

- **Week 4**: 10 hours of instructor-led online training class sessions scheduled Monday – Friday from 6:30 – 8:30 pm

- The final examination determines whether or not students have mastered the topics necessary to receive their Six Sigma Green Belt certification.

Structure of this Course

Online Modules

- DMAIC Methodology – Base knowledge
- Simple principles and tools
- Lean overview topics

Specific Tool Classroom Training

- Data based tools
- More complex analysis
- Making sense of the structure & methodology

Classroom Practice

- Simulation based practice
- Beginning to end
- Learning to use the appropriate tools

Your license to learn!

LEARNING / LEARNING / LEARNING

- *For your convenience, this agenda is flexible. The instructor led modules may shift as necessary based on your class needs and focus.*
- *Self-paced modules are typically completed in about 10 to 15 hours per week, however, students times will vary based on skill level.*
- *Modules that are <u>underlined in bold</u> are required for all students. All other online modules are recommended as preparatory to the instructor led training.*
- *If a student has previous training or experience, he/she may attempt the end-of-session quizzes without going through the modules if desired.*
- *Instructor-led modules will go into significantly greater depth in the complex topics than the self-paced modules. Attendance in the instructor-led sessions is required.*

Dates	Online Modules	Instructor Led Online Modules
Week 1	1. Introduction to Lean Six Sigma 2. Define I - Starting a Project and Leading Teams 3. Define II - Voice of the Customer 4. Define III - Mapping the Process 5. Measure I – Measurements and Basic Statistics 6. Measure II - Measurement System Analysis 7. Measure III - Charting Process Behavior	None
Week 2	None	Agenda, Introductions and Expectations Understanding Processes, Systems, and Improvement Methodologies Understanding Data and Variation Making Data Based decisions • What data do I need to take? • And are my data sources valid? • Are my processes predictable? • How well does my Process Meet Customer Expectations? • What Systemic Relationships Drive My Process Performance?
Week 3	8. Analyze I - Potential Root Causes 9. Improve 10. Control	None
Week 4	None	The Pie Problem – a simulated project • Identifying and Chartering the Project • VOC and CTQs • Studying the Process • Identifying relationships • Exploiting the relationships • Maintaining the gains • Wrap-up and Presentations