

“Certified Six Sigma Black Belt – Training Course” Top Level Topics

(Based on the ASQ CSSBB Body of Knowledge, with permission)

Type: On demand

Format: Online E-learning

CEU Hours: 2.22 (length is 22.2 hours)

Instructor(s): Ned Schneider, Mark Lindsey

Availability: 365 days from original purchase date

Facilitator: AREngineering, LLC

1. Organization-wide Planning and Deployment

- Organization-wide considerations
- Leadership

2. Organizational Process Management and Measures

- Impact on stakeholders
- Benchmarking
- Business measures

3. Team Management

- Team formation
- Team facilitation
- Team dynamics
- Team training

4. Define

- Voice of the customer
- Business case and project charter
- Project management (PM) tools
- Analytical tools

5. Measure

- Process characteristics
- Data collection
- Measurement systems
- Probability
- Basic statistics
- Process capability

6. Analyze

- Measuring and modeling relationships between variables
- Hypothesis testing
- Failure mode and effects analysis (FMEA)
- Additional analysis methods

7. Improve

- Design of experiments (DOE)
- Lean methods
- Implementation

8. Control

- Statistical process control (SPC)
- Other controls
- Maintain controls
- Sustain improvements

9. Design For Six Sigma (DFSS) Framework and Methodologies

- Common DFSS methodologies
- Design for X (DFX)
- Robust designs

Link to the ASQ CSSBB Brochure:

<https://asq.org/cert/resource/pdf/certification/inserts/CSSBB%20Insert.pdf>