

## **“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>