



**Clemson University - Center for Corporate Learning**  
**1 North Main Street, 7th Floor,**  
**Greenville, SC 29601**  
**<http://www.clemson.edu/online/>**  
**Contact: Juanita Durham | 864.656.3984 | [jdrhm@clemson.edu](mailto:jdrhm@clemson.edu)**

## Lean Six Sigma Yellow Belt

Format: Self-Pace Online / eLearning  
Program Duration: 6 Months  
Course Contact Hours: 300

### Program Description

This self-paced course prepares learners for the successful completion of the MindEdge Six Sigma Yellow Belt Certification Exam by exposing them to the Six Sigma concepts, strategies, tools, and techniques used in process improvement projects. The course is divided into modules that explain key foundational Six Sigma information, guide students through the five steps of the DMAIC methodology, and demonstrate how a Six Sigma approach can benefit organizations in several, diverse industries or business sectors. Course assignments show the tools and skills practitioners will use in support of process improvement activities, and explain how participants can contribute as important members of improvement teams.

Throughout the course, learners will be tested on their understanding and comprehension of course topics through challenging exercises, and interactive games. Each module also includes comprehensive quizzes and tests that learners can use to gauge their progress and prepare for each of the 25-question practice exams at the course end. Video segments from subject matter experts also supplement the course material, to provide real-world examples and enhanced understanding of important concepts and best practices.

### Education and National Certifications

- Students should have or be pursuing a high school diploma or GED.
- Students who complete this program will be eligible to sit for the **ICYB Exam**

### Program Objectives

At the conclusion of this program, students will be able to:

- Explain the concepts, tools, techniques, and strategies used in Six Sigma projects
- Describe the five stages of the DMAIC methodology and identify the factors that will improve its chances of success
- Assist in the application of specific tools and techniques in support of process improvement activities

- Demonstrate mastery of the skills and information covered in the MindEdge Six Sigma Yellow Belt Certification Exam
- Develop risk response strategies and contingency plans

### **Risk Management Professional Program Detailed Student Objectives:**

- Key Concepts
- Project Scoping
- SIPOC
- Voice of the Customer
- Value Stream Mapping & Process Mapping
- Key Metrics
- Basic Data Collection
- Basic Charts & Analysis
- Value Adding Analysis
- Root Cause Analysis
- Error Proofing
- Overall Methodology
- Understanding Hypothesis Testing
- Visual Management
- Standard Operating Procedures