



**College:**  
**Southeastern Community College**

**Signature Program:**  
**Manufacturing Technician / Technology**  
**CPPL Certificate in Professional Lean Leadership (CPLL)**

**Course Quality Standards**

SCC-Manufacturing Technician-Technology XXBU-XBUOS-BROEH03  
SCC-Manufacturing Technician-Technology TBD – Intro to Lean Six Sigma  
SCC-Manufacturing Technician-Technology XXBU-XBULM-BROEA13  
SCC-Manufacturing Technician-Technology XXBU-XBULM-BROEA03  
SCC-Manufacturing Technician-Technology XXBU-XBULM-BROEA11  
SCC-Manufacturing Technician-Technology XXBU-XBUOS-SDOEE01  
SCC-Manufacturing Technician-Technology XXBU-XBUOS-SDOEH02  
SCC-Manufacturing Technician-Technology TBD – One on One Training Techniques  
SCC-Manufacturing Technician-Technology XXET-XETQC-SDOEE01  
SCC-Manufacturing Technician-Technology XXET-XETQC-SDOEE9

Course Quality Standard – Elective found in Certified Production Technician Curriculum Package  
SCC – Manufacturing Technician – Technology XXETXETQC SDOEE10

Course Quality Standards – Electives found in Certificate in Lean Operations Curriculum Package  
SCC – Transportation & Logistics -XXBU-XBULM-SDOEE30  
SCC – Transportation & Logistics - XXBU-XBULM-SDOEE32  
SCC – Transportation & Logistics - XXBU-XBULM-SDOEE33  
SCC – Transportation & Logistics - XXBU-XBULM-SDOEE34  
SCC – Transportation & Logistics - XXBU-XBULM-SDOEE35

Course Quality Standards – Electives found in Certificate in Lean Applications Curriculum Package

SCC-Manufacturing Technician-Technology XXBU-XBUBA-BROEA01  
SCC-Manufacturing Technician-Technology XXBU-XBUOS-SDOEH20  
SCC-Manufacturing Technician-Technology XXBU-XBUOS-BROEH04

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: Performance Measurement**

**COURSE NUMBER: XXBU-XBULM-BROEA03**

**CONTACT HOURS: 4    LECTURE:                    LAB:            OTHER:**

**COURSE DESCRIPTION:**

Learn various performance measurement systems, from the basic to the complex. You will consider a wide variety of measurement needs, from the shop floor to top management reviews. Find out what works to get measured results.

**PREREQUISITES:**

**COREQUISITES:**

**QUALITY STANDARDS**


Upon successfully completing this course, students should be able to:

1. Recognize and define key Lean metrics
2. Choose the proper measurements at the proper levels of the organization
3. Evaluate the effectiveness of the chosen measurements
4. Report results in a manner to inform and motivate

## ASSESSMENT – Performance Measurement

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Recognize and define key Lean metrics				x				
2. Choose the proper measurements at the proper levels of the organization				x	x			
3. Evaluate the effectiveness of the chosen measurements				x	x			
4. Report results in a manner to inform and motivate				x				x

PREPARED BY: Susan Dunek  
 DATE: September 17, 2015  
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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: workplacelean® Launch**

**COURSE NUMBER: XXBU-XBULM-BROEA13**

**CONTACT HOURS: 8                      LECTURE:                      LAB:                      OTHER:**

### **COURSE DESCRIPTION:**

Participants learn the challenges of moving Lean concepts to the "front of the house." Special focus on translating visual workplace, bringing pull system principles into the office and information processes.

### **PREREQUISITES:**

### **COREQUISITES:**

### **QUALITY STANDARDS**


Upon successfully completing this course, students should be able to:

1. Define Lean
2. Identify the 9 types of deadly waste within your workplace
3. Understand the importance of value to your customer
4. Map your processes to identify value and non-value added steps
5. Understand and apply Lean principles and concepts
6. Create an Ideal state process that resolves issues and eliminates waste
7. Map your Future state
8. Develop Implementation/Action Plans

## ASSESSMENT – workplaceclean® Launch

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Define Lean				x	x			
2. Identify the 9 types of deadly waste within your workplace				x	x			
3. Understand the importance of value to your customer				x	x			
4. Map your processes to identify value and non-value added steps					x		x	
5. Understand and apply Lean principles and concepts					x		x	
6. Create an Ideal state process that resolves issues and eliminates waste					x		x	
7. Map your Future state					x		x	
8. Develop Implementation/Action Plans								x

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: Performance Measurement**

**COURSE NUMBER: XXBU-XBULM-BROEA03**

**CONTACT HOURS: 4    LECTURE:                    LAB:                    OTHER:**

### **COURSE DESCRIPTION:**

Learn various performance measurement systems, from the basic to the complex. Participants consider a wide variety of measurement needs, from the shop floor to top management reviews. Discover what works to get measured results.

### **PREREQUISITES:**

### **COREQUISITES:**

### **QUALITY STANDARDS**

Upon successfully completing this course, students should be able to:

1. Recognize and define key Lean metrics
2. Choose the proper measurements at the proper levels of the organization
3. Evaluate the effectiveness of the chosen measurements
4. Report results in a manner to inform and motivate

## ASSESSMENT – Performance Measurement

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Recognize and define key Lean metrics				x				
2. Choose the proper measurements at the proper levels of the organization				x	x			
3. Evaluate the effectiveness of the chosen measurements				x	x			
4. Report results in a manner to inform and motivate				x				x

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: Policy Deployment**

**COURSE NUMBER: XXBU-XBULM-BROEA11**

**CONTACT HOURS: 8    LECTURE:            LAB:            OTHER:**

### **COURSE DESCRIPTION:**

Learn the importance of aligning continuous improvement efforts with company goals and current business needs. Participants will explore methods to improve focus on business goals and translate these activities into a strategy with measurable financial results. Communication, cooperation, and progress monitoring are stressed.

### **PREREQUISITES:**

### **COREQUISITES:**

### **QUALITY STANDARDS**

Upon successfully completing this course, students should be able to:

1. Learn the importance of aligning continuous improvement efforts with company goals and current business needs
2. Explore methods to improve focus on business goals and translate these activities into a strategy with measurable financial results
3. Communication, cooperation and progress monitoring are stressed



## ASSESSMENT - Policy Deployment

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Learn the importance of aligning continuous improvement efforts with company goals and current business needs				x				x
2. Explore methods to improve focus on business goals and translate these activities into a strategy with measurable financial results				x				x
3. Communication, cooperation and progress monitoring are stressed				x				x

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: MS Project**

**COURSE NUMBER: XXBU-XBUCS-SDOEE01**

**CONTACT HOURS: 8    LECTURE:    LAB:    OTHER:**

### **COURSE DESCRIPTION:**

Learn to use this powerful program as a tool for Project Management. You will learn how to develop and present your project plan, master the tools for managing schedules and resources effectively, identify critical paths and manage multiple dependencies, and track progress and costs and make real-time adjustments.

### **PREREQUISITES:**

### **COREQUISITES:**

### **QUALITY STANDARDS**


Upon successfully completing this course, students should be able to:

1. Learn how to develop and present your project plan
2. Master the tools for managing schedules and resources effectively
3. Identify critical paths and manage multiple dependencies
4. Track progress and costs and make real-time adjustments

## ASSESSMENT – MS Project

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Learn how to develop and present your project plan				x			x	
2. Master the tools for managing schedules and resources effectively				x			x	
3. Identify critical paths and manage multiple dependencies				x			x	
4. Track progress and costs and make real-time adjustments				x			x	

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE:** Personal Learning Insights

**COURSE NUMBER:** XXBU-XBUOS-SDOEH02

**CONTACT HOURS:** 4      **LECTURE:**                      **LAB:**                      **OTHER:**

### **COURSE DESCRIPTION:**

Understand the importance learning plays in professional and personal life. Identify strategies for increasing learning effectiveness in a variety of roles and settings. This class will identify the learning effectiveness of yourself and others.

### **PREREQUISITES:**

### **COREQUISITES:**

### **QUALITY STANDARDS**


Upon successfully completing this course, students should be able to:

1. Understand the importance learning plays in our lives
2. Identify possible barriers to learning effectiveness
3. Identify your preferences in three aspects of learning
4. Identify strategies for increasing learning effectiveness in a variety of roles and settings

## ASSESSMENT – Personal Learning Insights

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Understand the importance learning plays in our lives				x				
2. Identify possible barriers to learning effectiveness				x				x
3. Identify your preferences in three aspects of learning				x				x
4. Identify strategies for increasing learning effectiveness in a variety of roles and settings				x			x	x

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: Six Sigma Green Belt**

**COURSE NUMBER: XXET-XETQC-SDOEE1**

**CONTACT HOURS: 48    LECTURE:            LAB:            OTHER:**

### **COURSE DESCRIPTION:**

Complete Green Belt learning. The required capstone project is due eight weeks after the end of the course.

### **PREREQUISITES:**

### **COREQUISITES:**


### **QUALITY STANDARDS**

Upon successfully completing this course, students should be able to:

1. Describe and characterize the six sigma philosophy
2. Demonstrate SPC fundamentals and interpret control charts
3. Characterize and demonstrate application of DMAIC model
4. Define and measure process capabilities
5. Check for normality
6. Employ basic process improvement tools

Participants submit a greenbelt capstone project for evaluation and potential award of Six Sigma Green Belt status.


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## ASSESSMENT - Six Sigma Black Belt

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Describe and characterize the six sigma philosophy				X	X			
2. Demonstrate SPC fundamentals and interpret control charts				X	X			
3. Characterize and demonstrate application of DMAIC model				X	X			
4. Define and measure process capabilities				X	X			
5. Check for normality				X	X			
6. Employ basic process improvement tools				X	X			

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## COURSE QUALITY STANDARDS – NON CREDIT

**COURSE TITLE: Six Sigma Black Belt**

**COURSE NUMBER: XXET-XETQC-SDOEE09**

**CONTACT HOURS: 24    LECTURE:                    LAB:                    OTHER:**

### **COURSE DESCRIPTION:**

Build on your Green Belt learning. The required capstone project is due eight weeks after the end of the course.

### **PREREQUISITES:**

**COREQUISITES: Six Sigma Green Belt**

### **QUALITY STANDARDS**

Upon successfully completing this course, students should be able to:

1. Describe and characterize the six sigma philosophy
2. Demonstrate SPC fundamentals and interpret control charts
3. Characterize and demonstrate application of DMAIC model
4. Demonstrate use of measurement systems, variation and assessment through a measurement system study
5. Characterize capability for non-normal distributions
6. Analyze non-conformity and attribute data
7. Employ randomization, comparison testing and analysis of means

Participants submit a black belt capstone project for evaluation and potential award of Six Sigma Black belt status.



## ASSESSMENT - Six Sigma Black Belt

Standards	Exam	Paper	Presentation	Large Group Discussion	Demonstration	Observation	Simulation	Other
1. Describe and characterize the six sigma philosophy				x	x			
2. Demonstrate SPC fundamentals and interpret control charts				x	x			
3. Characterize and demonstrate application of DMAIC model				x	x			
4. Demonstrate use of measurement systems, variation and assessment through a measurement system study				x	x			
5. Characterize capability for non-normal distributions				x	x			
6. Analyze non-conformity and attribute data				x	x			
7. Employ randomization, comparison testing and analysis of means				x	x			

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