

## Green Belt – Course Objectives and Outcomes

This practical 5-day course is designed to allow attendees to gain an understanding of Six Sigma DMAIC (Define, Measure, Analyze, Improve, Control) and Lean Tools

Course offers hands-on exercises, as well as interactive discussions to reinforce learning. Participants of the course will be able to conduct root cause analysis and apply tools to solve their business problems to improve EBITA (Profit Margin) and customer satisfaction

### Course Outline

**Lean Tools:** Apply Lean concepts to eliminate Process Waste and Non value added steps to focus on customer outcome

**Root Cause Analysis:** Ability to apply Structured Problem Solving tools using Six Sigma to identify root cause

**Data Analysis:** Gain understanding of various data types to identify trends in data

**Kaizen Events:** Learn how to conduct fast track workshops to solve problems

**Project Management:** Use Project Management skills to manage projects

**Process Control:** Be an effective change leader and implement process controls

### About the Green Belt Candidate

The Green Belt candidate is sponsored by company management for certificate training.

The candidate has to identify a Project or Business Challenge to solve that will be reviewed.

A senior member (Company Sponsor) will interview candidate to assess:  
Aptitude / Willingness / Capability  
Proficiency in MS Excel

The candidate background is shared with UNT faculty.

## Green Belt – Sample Schedule Overview

### MONDAY

8 a.m. Welcome / Overview / DMAIC Overview / Managing Teams / Change Management / Stakeholder Analysis / SIPOC  
12:45 p.m. RACI / Project Charter / SMART VoC / CTQs / Process Mapping Affinity Diagram / Day 1 Deltas

### TUESDAY

8 a.m. Review / Kano Model / VA vs. NVA / Waste Types / Data Types / Defects Operational Definition / Measurement System Analysis / Project Charter Reviews / Day 2 Deltas  
12:45 p.m.

### WEDNESDAY

8 a.m. Review / Understanding Variation / Pareto Chart / Cause & Effect / 5 Why Analysis  
12:45 p.m. Correlation vs. Regression / Hypotheses Testing / Day 3 Deltas

### THURSDAY

8 a.m. Review / Solution Selection / FMEA / Control Charts / Control Plan / Value Stream Mapping  
12:45 p.m. 5S / Visual Factory (GEMBA Boards) / Mistake Proof / Standard Work / Day 4 Deltas

### FRIDAY

8 a.m. Review / Kaizen Event / PDCA A3 / Project Closure and Replication / Project Reviews / Next Steps / Certification Test / Course Evaluation  
12:45 p.m. Optional Project Charters / Work Time

*\* A lunch break is scheduled between the morning and afternoon sessions each day*

### To Earn Green Belt Certification

Successfully complete 5 day Green Belt Training

Take GB Online. Test within 48 hours after end of class with an 80% or better passing grade

Complete One Project by demonstrating use of tools, documenting process improvement and receiving sign-off by Project Sponsor

Apply for UNT GB certification

UNT Committee will recommend for certification

UNT will issue certification

# Lean Six Sigma Program Definitions and Course Outlines



## Champion/Sponsor Session Course Objectives and Outcomes

This 4-hour course, designed for senior executives and program sponsors, helps management better understand the basic concepts of Lean and Six Sigma. The innovative **Champion/Sponsor** event allows executives to be better able to identify business problems to improve EBITA (Profit Margin) and customer satisfaction.

### Time 4 Hour Champion/Sponsor Session

8 a.m.	Welcome/Introduction Lean and Six Sigma Overview DMAIC and A3 PDCA Project Selection - Linking to KPI's and EBITA
Noon	Identify Project(s) Questions/Discussions

### Recent Lean Six Sigma Participants and Instructors



## Yellow Belt – Course Objectives and Outcomes

This practical 2-day course is designed to allow front line employees to both gain understanding about applying Lean and eliminating waste from the process.

**The Yellow Belt** course offers hands-on exercises, as well as interactive discussions to reinforce the learning. Participants of the course will be able to conduct root cause analysis and apply tools to solve their business problems to improve EBITA (Profit Margin) and customer satisfaction

### Yellow Belt Course Outline

**A3 Methodology:** Use Lean-based PDCA to solve problems

**Lean Tools:** Apply Lean concepts to eliminate Process Waste and non value-added steps to focus on customer outcome

**Root Cause Analysis:** Apply Structured Problem Solving tools using Six Sigma to identify root cause

**Kaizen Events:** Learn how to conduct fast track workshops to solve problems

### Yellow Belt Candidate Nomination

- All Front employees who are involved in day to day tasks and processes in front/back office
- Candidate has ability to identify a Business Challenge that is within their function to solve
- Project duration is typically less than 30 days
- A senior member (Company Sponsor) will interview candidate to assess:  
**Aptitude / Willingness / Capability**
- Yellow Belt certification is achieved after successful completion of 1 project

## Yellow Belt – Sample Schedule Overview

### DAY 1

8 a.m.	Welcome Course Overview Managing Teams Lean Philosophy A3 PDCA Explained Problem Definition SMART Kaizen Event Defined Kaizen Preparation
	<b>LUNCH</b>
12:45 p.m.	Establish Current State Ideal State Implementation Plan Process Mapping VA & NVA TIMWOODS
4:45 p.m.	Project Reviews/Discussion Day 1 +/-Deltas

### DAY 2

8 a.m.	Day 1 Review Brainstorming Pareto Cause and Effect Diagram 5Why Visual Factory Standard Work Mistake Proof Affinity Diagrams
	<b>LUNCH</b>
12:45 p.m.	Idea Priority Matrix Implementation Plan Measures Project Reviews Course/Facilitator Survey

**Ask about bringing  
these programs on-site!  
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