

Instructor Information:

Name: Pat Schaeffer

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Office Hours: OW 119, Monday – Thursday, Noon - 1:00 PM Pacific Time, or by

appointment

Course Overview

Course Number: MGT 461

Course Title: Lean Six Sigma Management

Course Description: Lean thinking as applied to production and service operations. Kaizen,

kanban, pull systems, Error-proofing, value stream mapping and analysis. Standard work and layout improvement to streamline work content and achieve flow. Identifying sources of Muda and its

elimination.

Pre- requisites: BUS 215 (Principles of Management)

Credit Hours: 3.0 credits

Accreditation: Individual courses cannot be accredited. Oregon Institute of

Technology is accredited by the Northwest Commission on Colleges and Universities (NWCCU), an institutional accrediting body recognized by the Higher Education Coordination Commission and the Secretary of

the U.S. Department of Education.

Course Objectives:

Upon completion of this course, the students should be able to:

- Describe the concepts of lean thinking, i.e., Value, Muda, Kaizen, TPM, pull production, efficiency.
- Develop plans to successfully implement lean projects following a step by step methodology;
- Use workplace layout techniques and estimating processes to plan, set up and maintain operational efficiencies;
- Apply LEAN continuous improvement tools and methodologies including value stream maps, 5s, quick change-over, standard work, pull systems and load balance diagrams.

Textbooks and Resources:

Required Textbook(s)/Materials:

Narrated & Printable lecture modules and selected articles on Canvas. There is no required textbook for this course.

Grading

Unless otherwise directed by the instructor, please submit all work through Canvas. Please do not submit work via email as it will not be accepted for grading. Assignments must be typed and professionally presented for full credit. Assignments submitted after the due date will be accepted with a minor reduction of 10% in grade for every week or part-of-week late. Late assignments will not be accepted after **midnight Monday of "dead week"**.

Class participation is vital for learning success. Participation is not graded per se, but takes the form of meaningful participation in discussion groups, asking questions and timely submittal of assignments.

Grading Policy		
Assignment	Points	
Assignment 1	50	
Assignment 2	50	
Assignment 3	50	
Assignment 4	50	
Assignment 5	50	
Assignment 6	50	
Assignment 7	50	
Assignment 8 (Project)	100	
Midterm Exam	150	
Final Exam	200	
TOTAL:	800	

Grade scale:

Points	Percentage	Grade
720 and above	90% and above	Α
640 to 719	80 to 89%	В
560 to 639	70 to 79%	С
480 to 559	60 to 69%	D
479 and fewer	59% and below	F

Tentative Course Schedule

Week	Lecture Topics	Course Work / Assignments
Week 1	Introduction to Lean	Introduce yourself to the class via the
WEEK 1	Waste and Value	Introduction Discussion Topic 1
	• waste and value	Read the articles for this module
		View online narrated lecture Module 01
		Begin Assignment 1
Week 2	Value Stream Maps	Assignment #1 Due
VVEER 2	Load Balance Diagrams	View online narrated lecture Module 02
	Load Balance Diagrams	Read the articles for this module
Week 3		Begin Assignment 2 Assignment #2 By a
vveek 3	• 5s	Assignment #2 Due Dead the activities for this weathle.
	Visual Management	Read the articles for this module Niew and the articles Add the action A
		View online narrated lecture Modules 03 and 04
		and 04
NA/a ala 4	Bala Vala (Sana Bara Cara)	Begin Assignment 3
Week 4	Poka-Yoke (Error Proofing)	Assignment #3 Due
		Read the articles for this module Nion and the articles of the store Maddela 05.
		View online narrated lecture Module 05
Week 5	0 11 6 11 11 11 11 11 11	Begin Assignment 4
week 5	Quick Changeover (SMED)	Assignment #4 Due
		Read the articles for this module
		View online narrated lecture Module 06
144 1 6		Begin Assignment 5
Week 6	Layout Efficiency	Assignment #5 Due
		Read the articles for this module
		View online narrated lecture Module 07
		Begin Assignment 6
		Take the Midterm Exam After Module 07
Week 7	Total Productive Maintenance	Assignment #6 Due
		Read the articles for this module
		View online narrated lecture Module 08
		Begin Assignment 7
Week 8	Standard Work	Assignment #7 Due
	Kaizen events	Read the articles for these modules
		View online Module 09
		View online Module 10
		Begin Assignment 8 (Project)
Week 9	No Topic	No Assignment – complete week 8
		content
Week 10	Course Review	Assignment #8 Due
Dead week		
Finals	Final Exam	Take the Final Exam before Midnight Tuesday
Week		of Finals Week.