



Quality Planning and Control OSCM 3339 Fall 2021



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Class Hours: MW 3:00 - 4:20 pm

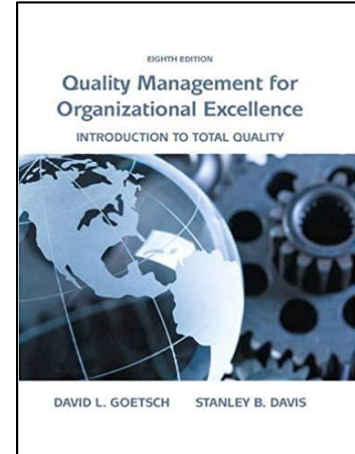
Liberal Arts Room 205

Office Hours: MW 12:30-3:00 pm, or by appointment

Required Textbook:

Quality Management for Organizational Excellence: Introduction to Total Quality, 8th Edition, by David L. Goetsch, University of West Florida and Oskaloosa-Walton Stanley Davis, Stan Davis Consulting, 2016

ISBN: 9780133791914



Welcome to the undergraduate Quality Planning and Control Course. Official information for OSCM 3339, including grades, will be posted on Blackboard. You are responsible for reading and responding to Blackboard “Announcements”, “Assignments”, “Assessments”, and any other information concerning this course - **check your Blackboard account daily!**

Course description (*From Goldmine*)

A study of the most effective methods for improving product and process quality in manufacturing and service operations. The course covers the following topics: statistical control charts, quality auditing. Japanese QC tools, process capability, loss functions, statistical tolerances, and experimental design. Statistical computer software will be used.

Objectives:

At the completion of this course, students will be able to:

1. Describe the evolution of modern quality management philosophies, practices and methods and explain the main principles of quality methods (Deming, Juran and Crosby).
2. Describe comparative differences among modern quality methods and apply the basic principles of these methods – Lean, Six Sigma, Theory of Constraints, 5S, Quality Function Deployment, Statistical Process/Quality Control and ISO 9000.
3. Identify and solve implementation issues and challenges associated with quality management methodologies.
4. Identify key management skills associated with successful, sustainable continuous process improvement. Make strategic management decisions based on statistical quality metrics.
5. Define key factors that determine the appropriate choice of quality management systems that are strategically aligned with business objectives.
6. Identify, assess effectiveness of quality management methods in real-world case studies.
7. Describe the impact of proper planning and design on quality – “building in quality.”
8. Apply quality management mathematical/software tools including Statistical Process Control (SPC), Control Charts.



Quality Planning and Control OSCM 3339 Fall 2021



Prerequisite: OSCM 3321 with Minimum Grade of D

Lectures

Important material from the textbook, reference books, case studies, multimedia sources, and homework problem examples will be covered in class lectures. You should plan to read a lot and take careful lecture notes. Discussion and engagement with your classmates is strongly encouraged about the topics being covered, both in class and through discussion board assignments.

Regular Exams

There will be three regular, non-comprehensive exams that cover class materials and chapters in the textbook and other materials, taught up to the date of the last class before the exam. Exams will be administered electronically **in class** through Blackboard. You must use Respondus Lockdown Browser to take exams, and have a working webcam and microphone on the computer you are using. Respondus Monitor will be enabled and will be recording everything you do and say during your exam session. You will have 60 minutes to take exams. If you have some kind of problem with your computer or Internet connection, your answers will be saved, and you'll have plenty of time to restart and reenter the exam. You must complete the exam within 60 minutes of the time you started it, including any interruptions. Exams must be taken in class, in person. Exams will not be available remotely – no exceptions! **There are no make-up exams.**

How we will Communicate:

I will communicate with you through Blackboard announcements, global emails sent to the whole class and either face-to-face or virtual office hours. Your best way to communicate directly with me is via email to mngarcia4@utep.edu. I teach many classes and have many students, so please identify your **course number** and a **message topic** clearly in the Subject line of your email. A good email Subject line would be:

Subject: OSCM 3339 – Question about Exam 1 Grades

If you do not include this information in the Subject line of your message, it may significantly delay my response. I will do my best get back to you within 1 business day.

Netiquette Guidelines: Netiquette is a set of rules for behaving properly online. We must establish and maintain a safe online learning environment. All opinions and experiences, no matter how different or controversial they may be perceived, must be respected in a tolerant spirit of academic discourse. You are encouraged to comment, question, or critique an idea but you are not to dismiss or attack any individual. Working as a community of learners, we will build a polite and respectful course community. The following netiquette tips will enhance the learning experience for everyone in this course:

- Do not dominate any discussion.
- Give other students the opportunity to join in the discussion.
- Do not use offensive language. Present ideas appropriately and professionally.
- Be cautious in using Internet language. For example, do not capitalize all letters since this suggests shouting. Popular emoticons, such as ☺, can be helpful to convey your tone but do not overdo it.
- Avoid using vernacular or slang language. This could possibly lead to misinterpretation.
- Never make fun of someone's ability to read or write.
- Share tips with other students.
- Stay "open-minded" and willing to express a minority opinion. Minority opinions will be respected.
- Think, pause, and edit before you push the "Send" button.
- Do not hesitate to ask for feedback.
- Be careful using humor – your perception of what is funny may be very different from someone else's.



Quality Planning and Control OSCM 3339 Fall 2021



Grading Policy:

10 %	First Regular Exam	A =	numerical grade ≥ 90
15 %	Second Regular Exam	B =	$80 \leq$ numerical grade < 90
15 %	Third Regular Exam	C =	$70 \leq$ numerical grade < 80
15 %	Final exam	D =	$60 \leq$ numerical grade < 70
10 %	Attendance and Participation	F =	numerical grade < 60
35 %	Homework, Quizzes and other assignments		

COURSE POLICIES

1. Electronic Devices

All electronic devices (cell phones, laptops, tablets, camera containing devices, etc.) should be completely turned off in class and should not be in the hands of students at any time during class. The Professor reserves the right to temporarily confiscate electronic devices owned by students when electronic devices create distractions or disruptions. There will be absolutely no texting, phone calls, or social media interaction during class. All students are expected and required to comply. Keep in mind that adherence to this policy is part of your participation score, and will be worth 10% of your overall grade.

2. Academic Integrity

Cheating is unethical and unacceptable. Using information or original wording in a paper, assignment or discussion board without giving credit to the source of that information or wording is **plagiarism**, and is absolutely unacceptable. Do not submit work under your name that you did not do yourself. You may not submit work for this class that you did for another class. If you are found to be cheating or plagiarizing, you will be subject to disciplinary action, per UTEP catalog policy. Refer to <https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html> for further information.

3. Attendance and Punctuality

Attendance is valued in this class, just as it is in the workplace. Being absent or late to class sends a negative message to the Professor, just like it does to an employer, manager, or customer. You cannot make a contribution to the class if you are not present. Please keep in mind that missing 1 class is equivalent to missing 5 days of work.

Class attendance is required and expected. Exam and quiz material will be substantially based on lectures, therefore you are responsible for all material covered in class. Please arrive on time and take your seat quickly and quietly. Arriving late hinders all students and is considered disruptive to everyone in class.

4. Homework

There will generally be one homework assignment for each text chapter, taken from material previously covered in class. Please note that you should complete and turn in homework **exclusively through Blackboard**. Homework will not be accepted via hardcopy, email, or text messages and cannot be turned in after its due date. If you expect to be out-of-pocket, make sure you will be able to do the homework before its due date. No late assignments will be accepted. Unless specifically stated otherwise in a homework assignment, **all homework is a strictly individual, non-group, non-collaborative task**.

5. Quizzes

There will generally be one short reading quiz for each text chapter, taken from material that will be covered in the days to follow. These reading quizzes are structured to compel and reward you for reading ahead in the text in preparation for upcoming lectures. Reading quizzes will be administered through Blackboard.



Quality Planning and Control OSCM 3339 Fall 2021



6. Need for Assistance

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the Center for Accommodations and Support Service (CASS) website at <https://www.utep.edu/student-affairs/cass/>

7. Other Student Services

University Writing Center: <http://uwc.utep.edu/index.php>

Sexual Harassment Guide for students: <https://www.utep.edu/titleix/Filing-a-Complaint.html>

University Counseling Center: <https://www.utep.edu/student-affairs/counsel/>, 747-5302, 202 Union West; walk-ins encouraged.

Student Health and Wellness Center: <https://www.utep.edu/chs/shc/>, 747-5624. Many services free to students paid for through student health fee.

Student Engagement and Leadership Center: <https://www.utep.edu/student-affairs/selc/>, 106 Union West, 747-5670. Includes study space with workstations; family friendly room with lactation space.

University Career Center: <https://www.utep.edu/student-affairs/careers/>, 103 Union West, 747-5640.

Mine Tracker: <https://minetracker.utep.edu/>. Events, news and organizations.

8. Campus Carry:

Persons who hold a Concealed Handgun License can lawfully carry their gun into a UTEP classroom as long as it remains concealed. Open carry remains prohibited on campus. Should you feel someone is intentionally displaying a gun (or any other weapon for that matter), do not hesitate to call Campus Police (ext. 5611) or 911. For information on campus concealed carry, see <https://www.utep.edu/campuscarry/>. For more information on student emergencies and overall campus safety, see: <https://www.utep.edu/student-affairs/dean-of-students-office/student-emergency/index.html>

Please note that the GBC is a designated **Campus Carry Exclusion Zone** – a property leased by the University which has existing tenant leases *prohibiting weapons*. For more on Exclusion Zones see: <https://www.utep.edu/campuscarry/exclusion-zones/index.html>

9. Student Responsibility

Individual students must operate with integrity in their dealings with faculty and other students; utilize learning materials with appropriate attention and dedication; maintain engagement when challenged by difficult learning activities; contribute to the learning of others; and perform to standards set by the faculty.

COVID-19 Guidance:

If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. It is important to follow all instructions that you receive as part of the diagnosis, including isolation and staying at home until a negative test is produced.



Quality Planning and Control OSCM 3339 Fall 2021



If you experience COVID-19 symptoms, please follow the isolation protocol by staying at home and getting tested as soon as possible. If the test is negative but you are still seeking accommodations, please contact the Dean of Students Office for guidance in a timely manner. Your instructor will work with the Dean of Students Office to determine the extent of any such accommodations.

We strongly encourage you to think and act proactively in all matters related to COVID-19 and your academic endeavors. The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

Note: This is a tentative syllabus and the Professor reserves the right to make appropriate changes.



Quality Planning and Control OSCM 3339 Fall 2021



MW 3:00 - 4:20 pm

Liberal Arts Room 205

Detailed Course Outline:

Week	Day	Date	Subject	Discussion	HW
1	Mon	Aug 23	Class Intro	Expectations for the course, Syllabus	
	Wed	Aug 25	Hands-On Activity Reading Quiz 1	Tennis Ball Exercise Chapters 1, 2 on Blackboard	
2	Mon	Aug 30	Chapter 1 & 2 Reading Quiz 2	Quality and Organizational Excellence Quality and Global Competitiveness Chapters 3, 4 on Blackboard	#1 - Ch 1 & 2
	Wed	Sep 1	Chapter 3 & 4	Strategic Quality Management Quality in Ethics and CSR	#2 - Ch 3 & 4
3	Mon	Sep 6	No Class Reading Quiz 3	Labor Day Holiday Chapters 5, 6 on Blackboard	
	Wed	Sep 8	Case Study	TBD	
4	Mon	Sep 13	Chapter 5 & 6 Reading Quiz 4	Partners & Alliances in Quality Quality Culture Chapters 7, 8 on Blackboard	#3 - Ch 5 & 6
	Wed	Sep 15	Exam #1	1 Hour exam covers Chapters 1-6	1 Hour Exam administered in class through Blackboard
5	Mon	Sep 20	Chapter 7 & 8 Reading Quiz 5	Quality and Customer Relationships Quality Responsibilities of Employees Chapter 9 on Blackboard	#4 - Ch 7 & 8
	Wed	Sep 22	Hands-On Activity	TBD	
6	Mon	Sep 27	Chapter 9 Reading Quiz 6	Leadership in Quality Planning Chapters 10, 11 on Blackboard	#5 - Ch 9 & 10
	Wed	Sep 29	Chapter 10	Quality Teams	
7	Mon	Oct 4	Chapter 11 Reading Quiz 7	Communicating Quality Information/Policy Chapter 14, on Blackboard	#6 - Ch 11 & 14
	Wed	Oct 6	Case Study	TBD	
8	Mon	Oct 11	Chapter 14 Reading Quiz 8	Overview of ISO 9000 Chapter 15 on Blackboard	
	Wed	Oct 13	Exam #2	1 Hour exam covers Chapters 7-11, 14	1 Hour Exam administered in class through Blackboard
9	Mon	Oct 18	Chapter 15 Reading Quiz 9	Overview of Quality Tools Chapters 16, 17 on Blackboard	#7 - Ch 15 & 16
	Wed	Oct 20	Chapter 16	Problem Solving/Decision Making	
10	Mon	Oct 25	Chapter 17 Reading Quiz 10	Quality Function Deployment Chapter 18 on Blackboard	#8 - Ch 17 & 18
	Wed	Oct 27	Chapter 18	Statistical Process Control	



Quality Planning and Control OSCM 3339 Fall 2021



11	Mon	Nov 1	SPC #1 Problems/Activity Reading Quiz 11	Control Charts for Attributes Chapter 19 on Blackboard	#9 – SPC Probs
	Wed	Nov 3	SPC #2 Problems/Activity	Control Charts for Variables	
12	Mon	Nov 8	Chapter 19 Reading Quiz 12	Continuous Improvement Chapter 20 on Blackboard	#10 - Ch 19 & 20
	Wed	Nov 10	Exam #3	1 hour exam covers Chapters 15-19	1 Hour Exam administered in class through Blackboard
13	Mon	Nov 15	Hands-On Activity Reading Quiz 13	TBD Chapter 21 on Blackboard	
	Wed	Nov 17	Chapter 20	Benchmarking	#11 - Ch 21 & 22
14	Mon	Nov 22	Chapter 21 Reading Quiz 14	JIT and Lean Manufacturing Chapter 22 on Blackboard	
	Wed	Nov 24	Chapter 22	Implementing Total Quality Management	
15	Mon	Nov 29	Case Study	TBD	
	Wed	Dec 1	Class Wrap-up	Last day of class!	
16	Mon	Dec 6	Final Exam at regular class time	90-minute exam covers Chapters 20-22 + selected comprehensive questions	90-minute Exam administered in class through Blackboard

Note: This is a tentative syllabus and the Professor reserves the right to make appropriate changes.



Quality Planning and Control OSCM 3339 Fall 2021



Fall 2021 Academic Calendar:

Mar 29th	Fall Registration Begins
Aug 12th	Last Day to Clear Students on Suspension/Probation as well as those with Insufficient Prerequisites
Aug 13th	Drops for Students with Unsatisfactory Academic Standing, Insufficient Prerequisites, and Prior Grades of C in the Course
Aug 16th	Financial Aid is Disbursed
Aug 23rd	Fall classes begin
Aug 23rd-27th	Late Registration (Fees are incurred)
Sept 6th	Labor Day Holiday - University Closed
Sept 8th	Fall Census Day Note: This is the last day to register for classes. If payment is not received by this day, students will be dropped.
Sept 20th	20 th Class Day Note: Students who were given a payment deadline extension will be dropped at 5:00 pm if payment arrangements have not been made.
Oct 1st	Graduation application deadline for degree conferral
Oct 29th	Fall Drop/Withdrawal Deadline Note: Student-initiated drops are permitted after this date, but the student is not guaranteed a grade of W. The faculty member of record will issue a grade of either W or F.
Nov 12th	Deadline to submit candidates' names for degree conferral
Nov 25-26th	Thanksgiving Holiday - University Closed
Dec 2nd	Fall – Last day of classes
Dec 3rd	Dead day
Dec 6-10th	Fall Final Exams
Dec 11-12th	Fall Commencement
Dec 15th	Grades are Due
Dec 16th	Grades are posted to student records; students are notified of grades and academic standing
Payment Deadlines	For more information on payment deadlines, visit the Student Business Services Website