

Principles of Quality (PTAC 2314 2 AI)

3 Semester Credit Hours (3 hours lecture, 0 hours lab)

CREDIT

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

MATH 1332, PTAC 1302

COURSE DESCRIPTION

Study of the background and application of quality concepts. Topics include team skills, quality tools, statistics, economics and continuous improvement.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

1. Use statistical process controls to collect, organize, and analyze data.
2. Describe the principles of quality control
3. Use quality tools

INSTRUCTOR CONTACT INFORMATION

Instructor: Thomas M Day

Email: tday@lit.edu

Office Phone: 409-289-0580

Office location: 212 Exxon building

Office Hours: M/W 1-5 pm

REQUIRED TEXTBOOK AND MATERIALS

Quality Concepts for the Process Industry {ISBN: 13: 978-1-4354-8244-9}.

ATTENDANCE POLICY

Online class, with Blackboard course login required three times per week minimum.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

Approved: tmd 9/4/2.24

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COURSE CALENDAR

DUE DATE	TOPIC	Reference
9/23/24	Introduction Journal	
9/30/24	Course introduction and policies Why Quality is Important How It All Began the Quality Gums TEST 1	Chapter 1 Chapter 2 Chapter 3
10/6/24	The International Standards Organization	Chanter 4
10/6/24	Total Quality Management Customer Satisfaction TEST 2	Chapter 5 Chapter 6
10/20/24	Employee Empowerment	Chanter 7
10/20/24	Teamwork and Teams	Chanter s
10/20/24	Communication TEST 3	Chapter 9
11/3/24	Personal Effectiveness	Chanter 10
11/3/24	The Economics of Quality	Chapter 11
11/3/24	Quality as a System TEST 4	Chapter 12
11/17/24	The Cost of Quality	Chapter 13
11/17/24	Quality Tools (part 1) Quality Tools (part 2) TEST 5	Chapter 14 Chapter 15
12/4/24	Variation	Chapter 16
12/4/24	Statistical Process Control SPC and Control Charts Process Capability	Chapter 17 Chapter 18 Chapter 19
12/4/24	Epilogue-The Advantages of Quality TEST 6	Chapter 20
12/8/24	Final Exam Chap.1-20	

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Assignments 10%
- Exams 50%
- Final 40%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://ilit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record

student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish **link** to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information **in** Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at **LIT**.

ADDITIONAL COURSE POLICIES/INFORMATION