

Administrative Master Syllabus

Course Information

Course Title	Principles of Quality
Course Prefix, Num. and Title	PTAC 2314 Principles of Quality
Division	Vocational Science
Department	Process Technology
Course Type	WECM Course
Course Catalog Description	Study of the background and application of quality concepts. Topics include team skills, quality tools, statistics, economics and continuous improvement.
Pre-Requisites	TSI requirements satisfied.
Co-Requisites	Enter Co-Requisites Here.

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	3:3:0
Lab/Other Hours	
Equated Pay Hours	3
Lab/Other Hours Breakdown: Lab Hours	0
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

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Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

History and philosophies of quality in industry	Two Weeks
Current state and standards of quality in industry	One Week
Economic impact of quality process	One Week
Communication and teamwork	Two Weeks
Quality tools	Two Weeks
Concepts and Application of statistical process control	Two Weeks
Process Capability	Two Weeks

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

Use statistical process control to collect, organizes, and analyze data; describe the principles of quality control; and use quality tools.

The following list of learning outcome is a Key Activity from the Chemical/Refining Process Technician skill standards, developed by the North American Process Technology Alliance (NAPTA), and recognized by the Texas Skill Standards Board (TSSB). This outcome has been integrated into the PTAC-2314 Principles of Quality course:

1. Comply with Local, State and Federal Policies and Procedures

Methods of Assessment:

Written Exams Homework Quality Tool Project

Required text(s), optional text(s) and/or materials to be supplied by the student:

Process Quality (PTEC), Pearson Custom Publishing, 75 Arlington Court, Suite 300, Boston, MA 02116, (A CAPT book), ISBN 0-13-700409-5

Suggested Course Maximum:

30

List any specific or physical requirements beyond a typical classroom required to teach the course.

None

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Course Requirements/Grading System:

Evaluative Procedures:

- 1. Major tests (including mid-term)
- 2. Cross Disciplinary Skills (work ethic, safety, teamwork, housekeeping, independent thinking and problem solving, attitude, daily performance including preparation, computer proficiency)
- 3. Special Student Project
- 4. Final examination

The following method is used to arrive at the final grade:

Major Tests	40%
Daily Grade (Homework, Cross Disciplinary skills)	10%
Special Student Project	20%
Final Exam	30%

The grade classifications as outlined in the College Catalog are employed:

Α	Excellent	100-90
В	Good	89-80
С	Average	79-70
D	Poor (lowest passing grade)	69-60

F Failure 59 and below

Curriculum Checklist:

\square Administrativ	re General Education Course (from ACGM, but not in WCJC Core) – No additional documents needed
□Administrativ	re WCJC Core Course. Attach the Core Curriculum Review Forms
□Cr	ritical Thinking
□Со	ommunication
□Er	mpirical & Quantitative Skills
□те	eamwork
□Sc	ocial Responsibility
□P€	ersonal Responsibility

■WECM Course -If needed, revise the Program SCANS Matrix and Competencies Checklist

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