

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF CONSTRUCTION ENGINEERING AND MANAGEMENT

Course: **CEM 515 Project Quality Management**

Spring 2008

Dr. Abdulaziz A. Bubshait (bushit@kfupm.edu.sa) Tel:860-3590

Course Description

(3-0-3)

The objective of this course is to expose students to Quality knowledge and Quality improvement methods. Includes discussion on Quality standards, Quality needs and overall strategic plans, customer satisfaction and focus, tools for Quality Project Management, Statistical process control, tools for continuous improvement, recent developments in Quality in Constructed projects, ISO standards, survey of computer application software related to quality management.

Prerequisite: Graduate Standing

Course Requirements

Assignments and quizzes	10 %
Midterm exam	30 %
Term papers	15 %
Paper presentation	10%
Final Exam	35 %

Textbook: Barkley, Bruce and Saylor, James “Customer-Driven Project Management: building Quality into Project Processes,” McGraw-Hill, New York, 2001

Additional resources

<http://www.quality.org/>

<http://deming.eng.clemson.edu/onlineq.html>

<http://www.isixsigma.com/>

http://www.asq.org/perl/vqn/vqn_search.cgi

<http://www.maxwideman.com/>

Weeks	Topics	Reference
1	General introduction	
	Quality management- introduction & case study	Instructor Handouts
2	Quality management- introduction & case study	Instructor Handouts
	Total Quality Management-Introduction	TQM Xerox software
3	Total Quality Management	
	Tools of quality management	Student presentations
4	Tools of quality management	Student presentations
	Project Management & Quality	Chapter 3
5	Project Management & Quality	Chapter 3
	Midterm Exam	
6	Historical prospective on Project Quality Management	Chapter 4
	Historical prospective on Project Quality Management	Chapter 4
7	Leadership and Quality	Chapter 5
	Leadership and Quality	Chapter 5
8	The Eight-Step Process	Chapter 6
	The Eight-Step Process	Chapter 6
9	Quality Project Review	Chapter 8
	Quality Project Review	Chapter 8
10	Translating Expectations to Specifications	Chapter 12
	Translating Expectations to Specifications	Chapter 12
11	Process Tools	Chapter 13
	Process Tools	Chapter 13
12	Methods of quality improvement- 6 sigma	Instructor Handouts
	Method of quality assessment- ISO 9000-2000	Instructor Handouts
13	ISO 9000- 2000	Instructor Handouts
	Quality Audit	Instructor Handouts
14	5 student presentations (10 minutes each)	
	5 student presentations (10 minutes each)	
15	5 student presentations (10 minutes each)	
	7 student presentations (10 minutes each)	