

# KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS

## DEPARTMENT OF CONSTRUCTION ENGINEERING AND MANAGEMENT

*Course: CEM 515 CONSTRUCTION QUALITY ASSURANCE*

**FALL 2004**

**DR ABDULAZIZ A. BUBSHAIT**

bushit@kfupm.edu.sa

### 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	15 %
Final Exam	35 %
Term papers	20 % (including presentation)
Midterm exam	30 %

Day	Date	Topics	Exams	
S	9/11	General introduction/ Making quality happened (Case study of local company in implementing TQM)		
M	9/13	Making quality happened (lecture #2)		
S	9/18	Making quality happened (lecture #3)		
M	9/20	Chapter 2: Customer-Driven Quality and Scheduling	Quiz	
S	9/25	Chapter 2: Customer-Driven Quality and Scheduling		
M	9/27	Chapter 2: Customer-Driven Quality and Scheduling		

S	10/2	Chapter 3: Project Management and Quality		
M	10/4	Chapter 3: Project Management and Quality		
S	10/9	Chapter 4: Historical Prospective on Project Quality Management	Quiz C 2	
M	10/11	Chapter 4: Historical Prospective on Project Quality Management		
S	10/16	Chapter 5: Leadership and Quality		
M	10/18	Chapter 5: Leadership and Quality		
S	10/23	Chapter 6: The Eight-Step Process	Quiz C3	
M	10/25	Chapter 6: The Eight-Step Process		
S	10/30	Midterm exam (Chapters 2-5 and making quality happened presentation)	*****	
M	11/1	Chapter 7: Summary of Tools		
<b>Ied Alfater vacation from November 3 to November 20 (20 Ramadan to 7 Shawal)</b>				
S	11/20	Chapter 7: Summary of Tools	Quiz C 6	
M	11/22	Chapter 8: Quality Project Review		
S	11/27	Chapter 8: Quality Project Review		
M	11/29	Chapter 9: Customer-Driven Teams (CDTs)		
S	12/4	Chapter 9: Customer-Driven Teams (CDTs)	Quiz C7	
M	12/6	Chapter 10: “Brand you” and Professional Growth		
S	12/11	Chapter 10: “Brand you” and Professional Growth		
M	12/13	Chapter 11: Quality Team Skills		
S	12/18	Chapter 11: Quality Team Skills		
M	12/20	Chapter 11: Quality Team Skills		
S	12/25	Chapter 12: Translating Expectations to Specification		
M	12/27	Chapter 12: Translating Expectations to Specification		
S	1/1	Student presentations		
M	1/3	Student presentations		