

**King Fahd University of Petroleum & Minerals**  
**Department of Construction Engineering & Management**  
**CEM 515: Project Quality Management**

**Take Home Exam (5%) – Group Assignment**

**Objective of the assignment**

1. The students will practice how to apply the 8-steps process to solve a quality problem.
2. Team work
3. Communication skill

**The Assignment**

1. By this time each member of the group should have submitted a quality problem related to his job.
2. **(DEFINE the Quality ISSUE):** Each group should meet and select/ decide on one quality issue. List all problems. Show how you arrived to this selection. Use any appropriate form or quality tools to make your selection.
3. **Understand and Define the process:** I expect each member of the group understand the process **(NOT ONLY the person how brought the quality issue!!)**. **Use any appropriate form or quality tools to understand the process.**
4. **Select Improvement Opportunities:** Show me different suggestions and decide on one of them. Make all the assumptions that you plan to do in the real life. **Use any appropriate form or quality tools to select an improvement.**
5. **Analyze the improvement opportunities.** See the 10 points in page 168 and the bulleted points in pages 170 and 169 to help you in analysis the improvement opportunities.
6. **Take action:** make any assumption in this stage. Consider the bulleted point in page 175.
- 7.