

Minnesota State University Moorhead

CM 445: Contractor Quality Management

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:

CM 370 - Construction Documents and Specifications AND CM 230 - Estimating I: Quantity Survey

Corequisites: None

MnTC Goals: None

Contractor Quality Management is a management philosophy that includes design and implementation of detailed Contractor Quality Program. The quality planning document outlines a thorough step-by-step process which ensures the highest quality of construction for the completed project in a safety conscious environment.

B. COURSE EFFECTIVE DATES: 02/02/2017 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Lecture and review to understand minimum quality standards set forth construction codes, specifications, and related documents.
2. Student will create a Contractor Quality Program and identify processes for a company or project with worker safety being the highest priority.
3. Review of Quality Control/Quality Assurance (QC/QA) best practices and assign case studies to apply those best practices
4. Create a Quality Management Work Plan- Plan for a specific construction process identifying all trades involved, hazards present, equipment/manpower requirements, materials management, technical requirements, and all other quality management requirements associated with that construction process.
5. Understand engineering properties of soils through a series of lab assignments.
6. Interpretation of construction soil sampling and reports.

D. LEARNING OUTCOMES (General)

1. Create a contractor quality control program.
2. Identify high risk construction activities and how to minimize their impact.
3. Understand best practices of material tracking and the construction submittal process.
4. Understand contract documents from a quality control perspective.
5. Understand soil sampling, soil and concrete testing procedures, and reporting requirements.
6. Understand three phases of construction quality management.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted