

# CM 285: CONSTRUCTION QUALITY MANAGEMENT

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Prerequisite:	CM 110, CM 150 and CM 270.
Transferable to CSU:	Yes
Transferable to UC:	No
Grading Method:	Standard Letter

## Catalog Course Description

Introduction to quality management in construction, the system and its supporting elements. Course addresses quality compliance, audits and reporting, including the development and implementation of Construction Contractor Quality Control Plan. 54 lecture hours.

## Course Objectives

- Understand the roles and responsibilities of the various participants in a Quality Management System.
- Understand the interfaces between Quality Assurance and Quality Control.
- Analyze standards, tools and techniques used to enhance quality implementation.
- Develop a basic Inspection and testing plans for a small construction project.
- Understand the fundamental processes of quality compliance and issues resolution.
- Analyze the attributes of a successful Quality Management implementation.
- Demonstrate proficiency in preparing standard Quality Control reports associated with inspections and materials testing.
- Demonstrate ability to interpret and apply the various contract documents pertaining to construction quality.

## Major Course Content

1. Quality Management and ISO standards
2. Quality Assurance vs. Quality Control
3. Construction Quality Management System
4. Quality System Components
5. Implementation of quality management systems
6. Contractor Quality Control Submittal Plans
7. Quality indicators

8. Quality Audits
9. Total Quality Management (TQM)
10. The cost of Quality
11. Quality Cost Measurement
12. Developing effective quality cultures

## Suggested Reading Other Than Required Textbook

Read assigned case study and/or articles about Construction Quality Management .

## Examples of Required Writing Assignments

Group Assignment: Prepare a Construction Quality Control Plan for an assigned civil construction project based assigned plans and Specifications

## Examples of Outside Assignments

Describe the major components of Quality Improvement Programs in the Construction industry.

## Instruction Type(s)

Lecture, Online Education Lecture