

Master Syllabus

CAT 1840 - Construction Techniques IV (NCCER Level 3)

Division: Science, Mathematics and Engineering

Department: Civil Engineering Technology

Credit Hour Total: 3.0

Lecture Hrs: 1.0 **Lab Hrs:** 4.0

Other Prerequisite(s): Approval of Department

Date Revised: December 2016

Course Description:

Development of advanced skills for construction technicians including site layout, floor and roof systems and metal buildings. An introduction to welding, light equipment operation and project management. May be taken for two semesters. One classroom, four lab hours per week.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Skills of crew leader

Identify the skills of a crew leader.

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on exams

Total station surveying

Use total station surveying equipment in site layout.

Assessment Method: Behavioral observations

Performance Criteria:

Score at least 70% of available points

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on exams

Floor finishes

Install various floor finishes.

Assessment Method: Behavioral observations

Performance Criteria:

Score at least 70% of available points

Assessment Method: Locally developed exams

Performance Criteria:

70% or better on exams

Outline:

Angular measurements
Advanced roof systems
Advanced floor systems
Advanced wall systems
Advanced stair systems
Introduction to light equipment
Welding
Metal buildings
Skills for the crew leader