

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

Prerequisite(s): CAT 1830

Other Prerequisite(s): AND Approval of Department

Date Revised: January 2014

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