

# Alexandria Technical and Community College

## CARP 1533: Foundations and Concrete

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This is a study of footings and foundations. Techniques, procedures, and practices for concrete block, poured walls, and flatwork are studied. Building forms for flatwork, walls, and wood foundations are studied. Students learn basic tools, usage, care, and forming techniques. This course is a prerequisite for CARP1538.

**B. COURSE EFFECTIVE DATES:** 12/01/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Identify safe concrete placement.
2. Understand site preparation.
3. Understand proper use of concrete tools and equipment.
4. Understand concrete fundamentals.
5. Identify and understand foundation types and placement.
6. Understand flatwork.
7. Understand decorative concrete.
8. Explain and understand concrete defects.
9. Identify and calculate concrete costs.

### D. LEARNING OUTCOMES (General)

1. The learner will learn terminology and techniques as it applies to concrete fundamentals and forming procedures.
2. The learner will learn terminology and techniques as it applies to finishing concrete.
3. The learner will learn terminology and techniques as it applies to curing of concrete and repairing concrete.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted