

CARP 122C : Concrete Forms II

Credits: 8

Class Hours: 16 lecture/lab

Prerequisites: "C" or higher or concurrent enrollment in CARP 122B.

Description: This course covers the theory and practice of concrete form construction, including forms for slab on grade, continuous footings, spot footings, stairs, and how to calculate the amount of concrete needed to complete a project. Other topics include: Laying out a building using the 3-4-5 method and a transit level, shooting elevations with a builders level, and how to convert various units of measurements. Safety practices in form construction are stressed.

Semester Offered: Fall (every even year)

Course Student Learning Outcomes (CSLOs):

1. Demonstrate setting up a builders level.
2. Demonstrate setting up a transit level.
3. Demonstrate reading an engineer's rod and an architect's rod, and be able to convert readings.
4. Demonstrate how to layout a building, set batter boards, and shoot elevations for a concrete foundation.
5. Calculate the amount of concrete required for a project.
6. Calculate stairs, build concrete forms for a set of stairs, and calculate the amount of concrete required to complete a project.
7. Calculate slopes of existing ramps and determine if it is ADA accessible.
8. Calculate and build ramps to be ADA compliant.