

COURSE INFORMATION

Course prefix/No.:	BCT 104
Course Title:	Site Layout and Preparation
Lecture Hours/Week:	1
Lab Hours/Week:	3
Credit Hours/Semester:	2

[*Distance Learning Attendance/VA Statement*](#)
[*Textbook Information*](#)

COURSE DESCRIPTION

This course is a study of principles, equipment, and methods used to perform site layouts and distance measurements.

COURSE COMPETENCIES

Upon successful completion of this course, the student should be able to:

Module 1

- Explain the use of drawings in a set of blueprints.
- Explain how specifications are used.
- Explain the basic steps involved in laying out a building.
- Explain the purpose of zoning laws and building codes.
- Follow building codes and local zoning regulations in establishing setbacks.
- Read and interpret plot, foundation, floor, and framing plans.

Module 2

- Properly set up and use a builder's level, transit-level, optical level, and laser level.
- Establish level points across a building area using a water level.
- Demonstrate how to use a carpenter's spirit level and a straight edge to establish level building points.
- Interpret blueprints and land plots to locate and place stakes for building corners and other building points.
- Lay out building lines by using the Pythagorean Theorem and check the layout for accuracy.

Module 3

- Follow blueprints and land plots to locate and place stakes for building corners and other building points.
- Erect batter boards and establish building lines with string.
- Erect forms for placement of concrete.
- Explain function of a foundation inspection and how it is conducted.
- Explain requirements for obtaining a building permit.

REQUIREMENTS

Attendance Policy

The college attendance policy stated in the college handbook will be honored. The instructor will provide specific requirements for the course.

Academic Honesty

Students are expected to adhere to the college policy regarding student conduct as stated in the college handbook.

Assignments

Students are expected to complete all assignments and any supplementary exercises designated by the instructor.

EVALUATION STRATEGIES/GRADING

Students must complete all modules, including assignments, projects, labs, and tests. Students must earn at least a "C" in order for the course to serve as a prerequisite and for the course to apply towards a certificate.

Grading Scale

A=90-100
B=80-89
C=70-79
D=60-69
F=0-59

Evaluation Method:

Tests/Projects (minimum of three total)	16.66% for each Module
Work Attitude	8.32% for each Module
Lab	8.32% for each Module

33.33% X 3 Modules = 100% Final Grade

Work Attitude is defined as:

- Participation
- Responsibility
- Cooperation
- Professionalism
- Appearance
- Attendance
- Effort
- Self Motivation
- Safety
- Works Independently

ENTRY LEVEL SKILLS

The student must be able to read and solve basic mathematical equations.

PREREQUISITES/CO-REQUISITES

Prerequisites: RDG 031 or equivalent, BCT 101, BCT 142

Co-requisites: None

METHODS OF INSTRUCTION

Lectures, reading assignments, projects, discussions, video presentations, multimedia presentations, and web content are the major teaching methods used in this course. See instructor for specifics.

LAB EXERCISES

See addendum and/or instructor for additional details.

Effective Date: SU06