

## COURSE INFORMATION

COURSE PREFIX/NO: **EGT 133**  
COURSE TITLE: **HVAC Print Reading**  
LEC HRS/WEEK: 3.0  
LAB HRS/WEEK: 0.0  
CRESIT HRS/SEMESTER: 3.0

## DL ATTENDANCE/VA STATEMENT

## TEXTBOOK INFORMATION

### COURSE DESCRIPTION:

This course is a study of basic blue print reading and sketching. It includes a detailed study of layout, projection and dimensioning. The student completing this course should be able to make sketches of certain geometric shapes and be able to orthographically project these shapes. He should be able to read and interpret shop drawings and should be familiar with the most common drawing instruments.

### COURSE COMPETENCIES:

Upon successful completion of this course, the student should be competent to perform the following tasks:

- communicate with the architect and contractor
- be able to read symbols and sketch drawings
- be able to distinguish between types of drawings
- be able to scale a house

### MINIMAL STANDARDS/PERFORMANCE OBJECTIVES:

- A. Given a simple object, the student will draw different views of the object with 70% accuracy.
- B. Given a floor plan and information sheet, the student will fill in the information sheet with information from the floor plan with 80% accuracy.
- C. Given symbols and abbreviations used on building plans, the student will match the symbols to the abbreviations with 70% accuracy.
- D. Given a scale and a blueprint, the student will locate objects on the blueprint: using 1/4" scale with 100% accuracy; using 1/8" scale with 70% accuracy.
- E. Given blueprints and question sheets, the student will answer the questions with 80% accuracy.
- F. Given a set of blueprints, the student will do a "take off" of all materials needed to install equipment.

### COURSE REQUIREMENTS:

Students are responsible for attaining competencies through completion of the following course requirements:

## ATTENDANCE

Students will be bound by the policies stated in the York Technical College Student Handbook. "Students must attend 80% of the hours assigned to the class for a semester to receive credit for the course."

In case a student does miss a class, the student is responsible for obtaining the material that was covered during the absence.

If a student is aware that a class will be missed, then the student should notify the instructor at the earliest possible date.

If a student misses a test because of illness or urgent emergency, it is the responsibility of the student:

Notify the instructor prior to the class period, or at the earliest possible date. At that time a new date for a make up test can be scheduled.

Students with unexcused absences during tests will be allowed to take a make up test at the discretion of the instructor.

The student has the burden to be sure that some arrangement was made with the instructor for taking a make up test.

**PARTICIPATION IN CLASS DISCUSSIONS:**

**COMPLETING ASSIGNED HOMEWORK, DRAWINGS AND TESTS**

**ACADEMIC HONESTY:**

"York Technical College adheres to the South Carolina TECH Student Code, approved by the State Board for Technical and Comprehensive Education on March 13, 1974 (revised last April 25, 1984). Copies of this code are available in the library and from Student Services..."Any student caught cheating or involved in any other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action."

**EVALUATION CRITERIA/GRADING:**

The grading scale follows:

Grade Points

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

Evaluation Method

Tests (minimum of 5) 100%

**ENTRY LEVEL SKILLS:**

It is recommended that the student entering this course have an appropriate understanding of shop math. Mechanical aptitude and an interest in industrial mechanics is desirable but not required.

**PREREQUISITES:**

None

**C0-REQUISITES:**

None

TOPIC/CONTENT OUTLINE:

- A. Blueprints
- B. Elevations
- C. Floor Plans
- D. Symbols and Abbreviations
- E. Scales and Dimensions
- F. Reading Blueprints
- G. Sketching

METHODS OF INSTRUCTION:

The instructor will discuss the principles introduced in each chapter. The instructor will demonstrate progressive skills of blueprint reading and sketching to the student using chalkboard examples, and slides shown on a screen.