

# REVISE COURSE CONTENT

Selected group of course content , activities, and assessment written for the client.

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# Project & Client

- About the Project
  - The client will be begin to use a new textbook for their course, “Blueprint Reading for the Construction Trades”.
  - Project involved the creation of a Student Study Guide aligned to the new textbook, section activities and final course exam assessments.
- About the Client
  - Penn Foster offers online High School, College, and Career School programs.
  - The company is accredited by several agencies for grades 9-adult education.
  - The company has over 30K graduates each year.

# Study Guide Content

- As you know, a blueprint is a method to give information about something to be built.
- At times, one view will only give you a portion of the information you need.
- More complex items require a larger number of views to give you all the information you may need.

**You can use Orthographic (Multi-view) drawings and projections to create up to six (6) different views of the same object.**

# Study Guide Content

- ❑ Used to give a 3D idea of an object through different viewpoints
- ❑ Only draw the number of views needed to give all the information
- ❑ The views are drawn near each other, showing one angle or viewpoint at a time
- ❑ Use the same scale for each view
- ❑ Use a larger scale to provide room for information
- ❑ Floor plans, elevation views, section drawings, foundation plans, site plans, and others use Ortho drawings.

# Lesson Five

## Objectives

When you complete this lesson, you will be able to:

- ✓ Compare the difference between a building code and a building standard
- ✓ Determine how many exits are required in a space
- ✓ Discuss building requirements for people with disabilities
- ✓ Evaluate a business plan
- ✓ Describe a good business image and website

- A *building code* is a set of rules recommended to be followed by designers and contractors. They are not laws but can be adopted as a law by local authorities. The code tells you what you need to do on a project.
- A *building standard* is more detailed than building codes. Standards set the ways that a designer or contractor should meet the building code. The standard tells you how you go about meeting the required code.

# Sample section review student activity

As you have learned, some sets of plans will have many pages that cover all the trades involved in a project. Put these sheets into the order you would find them when they are included in a construction set.

- A. COVER SHEET
- B. FOUNDATION FOOTINGS  
PLAN
- C. HVAC PLAN
- D. LANDSCAPE PLAN
- E. PLUMBING PLAN
- F. POWER LAYOUT PLAN
- G. ROOF TRUSS PLAN
- H. SITE PLAN

# Sample fill in the blank section review questions

\_\_\_\_\_ is based on the size of the structure and the type of business or residence activity that is expected to take place there.

Designing and building structures that are accessible for persons with disabilities, in both public and private businesses is covered in Title III and Title IV of the \_\_\_\_\_.

Sea Level is an example of an elevation datum and \_\_\_\_\_ lines will connect points of the same elevation height above or below this datum point.

# Sample short response section review questions

Foundation drawings show the design methods to support the weight (load) of a structure and will be suited to the building type. What are the different uses of the three main types of foundations (continuous, piling, and grade-beam)?

How is the half-diagonal rule used when two (2) exits are required in an area?

What type of drawings show information on parts of the construction that are too small to be shown on the general working blueprints?



# Sample multiple choice final exam questions

Gypsum wallboard for use on walls, ceilings, or partitions and that affords a surface suitable to receive decoration will be used for interior walls and ceilings and will meet or exceed ASTM Standard C1396.

This statement is an example of which of the following specifications?

A) Closed Specification, B) Descriptive Specification, C) Or Equal Specification, D) Reference Standard Specification

The processes of repeated heating and cooling of ferrous alloys metals or those metals that contain iron, to remove brittleness and change the chemical properties of the material, allowing it to be stretched and making it stronger is called which of the following?

A) Die, B) Forging, C) Smelting, D) Tempering