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Northeast Wisconsin Technical College

10-403-100 059241 Blueprint Reading Intro

Course Outcome Summary

Course Information

Description	10-403-100 BLUEPRINT READING INTRO ...develop the knowledge skills process and understanding of site plans, footings and foundations, floor plans, elevations, below-grade piping, above-grade piping, isometric piping diagrams, schedules and details, electrical floor plans, lighting, ventilating, and air conditioning.
Total Credits	1
Total Hours	36

Course History

Last Revision Date	12/18/2017

Employability Skills

Communicate Effectively

Demonstrate Personal Accountability

Solve Problems Effectively

Think Critically and Creatively

Work Cooperatively and Professionally

Course Competencies

1. Determine the role of architectural and engineering drawings in industry.

Assessment Strategies

Project

Learning Objectives

1.a. Define appropriate terms
1.b. Describe the need for prints in industry
1.c. Identify various types of prints
1.d. Explain how various types of prints are used in the industry

Criteria

your project includes a description of how prints are used at the company
your project includes a list of the types of prints that are used
your project includes a description of the consequences of misreading a print

your project includes an analysis of the impact of misreading prints on the quality of the project
your project includes an analysis of the impact of misreading prints on the relationship with the customer
your project includes at least one way to eliminate the problem

2. Extract information from a blueprint set title and symbol pages

Assessment Strategies
Report

Learning Objectives
2.a. Identify the components of a title block
2.b. Define common terms, abbreviations and symbols used in a title block
2.c. Articulate the importance of the title block information to the industry
2.d. Investigate key symbols and information on the title block to determine applicable information

Criteria
information reported includes the scale of the drawing
information reported includes the type of projection used
information reported includes general information about the project
information reported includes the file name used to locate additional information about the drawings

3. Interpret Construction Drawings

Assessment Strategies
Written Product

Learning Objectives
3.a. Define terms related to various types of drawings
3.b. Match pictorial drawings to completed construction
3.c. Describe the differences among various types of drawings
3.d. Identify primary views and features in construction drawings
3.e. Explain the value and limitations of construction drawings to industry applications

Criteria

Performance will be satisfactory when:

The written product demonstrates accurate interpretation of various types of drawings
The written product reflects knowledge of various types of drawings and information that can be access using the drawings

4. Interpret section, auxilliary views and detail drawings.

Assessment Strategies
Written Objective Test

Learning Objectives
4.a. Identify the need for special or auxiliary views
4.b. Describe when auxiliary views are needed
4.c. Explain the purpose of a sectional view
4.d. Differentiate among different types of sections

Criteria

Performance will be satisfactory when:

the interpretation determines the scale of the view or detail
the interpretation identifies the view as a section view, auxiliary view, detail or component view
the interpretation includes correct terms, notes, symbols or lines

5. Interpret product specifications

Assessment Strategies
Case Study

Learning Objectives
5.a. Relate all views on a drawing to one another in order to extract specification information
5.b. Examine how specifications and drawings relate to one another

5.c. Interpret specifications for construction processes
5.d. Explain specification schedules

Criteria

Performance will be satisfactory when:

the interpretation identifies the product attributes and characteristics from prints or written specifications
the interpretation identifies the construction process required
the interpretation identifies the specified requirements