

Common Course Numbering System

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Searching Current Courses For Spring 2015

Course: MTE 106

Title: Print Reading Manufacturing

Long Title:

Course Description: Instructs students in reading and understanding industrial prints. This course covers basic drafting and print standards, fundamentals of shape description, fundamentals of size description and annotation, industrial drawing types, and specialized parts and prints. Symbol interpretation, tolerancing and dimensioning standards are also covered.

Min Credit: 3

Max Credit:

Origin Notes: FRCC

Course Notes: Revised prfx was TEC,dscrptn,cmptncls,outln 10/15/12

1. Identify the importance of prints.
2. Identify the standard alphabet of lines and describe the types of lines by appearance and purpose.
3. Identify the elements of the title block.
4. Identify scales and precision measuring devices and tools.
5. Explain the types of views used in engineering / manufacturing drawings.
6. Review the basic elements involved in common manufacturing processes.
7. Identify common screw thread forms, springs, fasteners, connections methods, cams, and gears.
8. Identify terms, symbols and measurements associated with dimensioning, geometric tolerancing, working drawings, and pictorial drawings.
9. Identify sheet metal, welding and electrical symbols and drawings.

TOPICAL OUTLINE:

- I. Introduction to Prints
- II. Line Conventions and Lettering
- III. Title Blocks and Part Lists
- IV. Geometric Terms and Construction
- V. Multiview Drawings
- VI. Section Views
- VII. Auxiliary Views

- VIII. Screw Thread Representation
- IX. Dimensioning
- X. Tolerancing
- XI. Machining Specifications and Drawing Notes
- XII. Surface Texture Symbols
- XIII. Geometric Dimensioning and Tolerancing
- XIV. Drawing Revision Systems
- XV. Detail Drawings
- XVI. Assembly Drawings
- XVII. Springs and Fasteners in Industrial Prints
- XVIII. Gears, Splines and Serrations
- XIX. Cam Diagrams and Prints
- XX. Plastic Parts
- XXI. Precision Sheet Metal Parts
- XXII. Welding Prints
- XXIII. Instrumentation and Control Drawings

Course Offered At:

Pueblo Community College PCC

RELEASE: 8.5.3

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