

BARSTOW COMMUNITY COLLEGE COURSE OUTLINE –**IMMT 66****Dept & Nbr:** IMMT 66**Abbrev Title:** Construction Drawings.**Full Title:** Construction Drawings.**Old Number:****Title 5 Category:** Associate Degree Applicable.**Certificate Applicable:**

Units	Course Hrs per Week	Nbr of Weeks	Course Hrs Total
Max: 1.0	Lecture .75	18	Lecture 13.5
Min: 1.0	Lab .25		Lab 13.5
	Contact DHR 0.0		Contact DHR 0.0
	Contact Total 1.5		Contact Total 27.0
	Non-contact DHR 0.0		Non-contact DHR 0.0

Delivery method: Lecture and Online.**Selected Topic:** No**Grading:** Option (A-F) (P/NP)**Concurrent Course:** None.**Repeat Code:** May be taken two times with a grade of less than "C".**Basic Skills** 0: This is not a basic skills class.**CATALOG DESCRIPTION:**

Designed to give the student the fundamental skills to read commonly used blueprints by industrial maintenance mechanics.

PREREQUISITES: None.**COREQUISITES:** None.**RECOMMENDED PREPARATION:** None.**CONTENT:**

1. Basic layout of a blueprint.
2. Title blocks.
3. Types of lines.
4. Common symbols.
5. Architect's and engineer's scales.
6. Use of an architect's scale.

COURSE OBJECTIVES:**Upon successful completion of this course the student will be able to:**

1. Explain the basic layout of a blueprint.
2. Describe the information included in the title block of a blueprint.
3. Identify the types of lines used in blueprints.
4. Identify common symbols used on blueprints.
5. Understand the use of architect's and engineer's scales.
6. Demonstrate the use of an architect's scale.

COURSE-LEVEL STUDENT LEARNING OUTCOMES:

1. **Identify parts of blueprints including title blocks, scales and measurements, symbols and abbreviations, notes, revision blocks, and coordinates.**

Assessment Method(s): Performance Evaluation.

- Communication.
- Critical Thinking.
- Global Awareness.
- Personal/Professional Development.

2. **Identify drawing indexes and line lists.**

Assessment Method(s): Performance Evaluation.

- Communication.
- Critical Thinking.
- Global Awareness.
- Personal/Professional Development.

3. **Identify the following types of drawings:**

- Plot plans.
- Structural drawings.
- Elevation and section drawings.
- Equipment arrangement drawings.
- P&IDs.
- Isometric drawings.
- Schematics.
- Circuit diagrams.
- Orthographic drawings.

Assessment Method(s): Performance Evaluation.

- Communication.
- Critical Thinking.
- Global Awareness.
- Personal/Professional Development.

B. Critical Thinking Tasks/Assignments:

Critical thinking assignments include (but are not limited to) the following:

1. Identify and develop options for extracting information from a set of blueprints required in the IMM field.
2. Solve problems related to various topics related to IMM.

C. Measurement of Student Learning Outcomes:

1. Substantial writing assignments, including:

- Written homework
- The course primarily involves skill demonstrations or problem solving.

2. Computational or non-computational problem-solving demonstration, including:

- Exam(s)
- Quizzes
- Homework problems

3. Skill demonstration, including:

- Class performance(s)

4. Objective examinations, including:

- Multiple choice
- Completion

5. Other

- Attendance/Participation
- Observation

REQUIRED READING, WRITING AND OTHER OUTSIDE-OF-CLASS ASSIGNMENTS:

Over an 18-week presentation of the course three hours of study are required for each unit of credit. Two hours of independent work done out of class are required for each hour of lecture. Outside of the regular class time the students in this class will be doing the following:

- Study
- Answer questions
- Skill Practice
- Required reading
- Problem solving activity or exercise
- Written work

BASIS FOR GRADES:

Writing Assignments	20%
Problem-Solving	20%
Skill Demonstrations	20%
Objective Examinations	20%
Attendance & Participation	20%
Other.....	%
TOTAL	100%

TEXTS/MATERIALS

Contren, Industrial Maintenance Mechanic Level1, Prentice-Hall 2007

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Area Department: B & W

=====Instructional Office Use Only - Signatures and Codes=====

Instructional Vice President Approval: Steven Eaton, AAVP

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