

BARSTOW COMMUNITY COLLEGE COURSE OUTLINE –**IMMT 64****Dept & Nbr: IMMT 64****Abbrev Title:** Craft-Related Quantative Skills.**Full Title:** Craft-Related Quantative Skills.**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 quantitative skills commonly used by industrial maintenance mechanics.

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

1. Special measuring devices.
2. Table of weights and measurements.
3. Formulas to solve basic problems.
4. Area Problems.
5. Volume Problem.
6. Circumference Problems.
7. Pythagorean Theorem.

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

1. Identify and explain the use of special measuring devices.
2. Use tables of weights and measurements.
3. Use formulas to solve basic problems.
4. Solve area problems.
5. Solve volume problems.
6. Solve circumference problems.
7. Solve right triangle using the Pythagorean Theorem.

COURSE-LEVEL STUDENT LEARNING OUTCOMES:

- 1. Use table of weights and measurements to solve problems related to IMM.**

Assessment Method(s): Performance Evaluation.

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

- 2. Use formulas to solve area, volume, and circumference problems related to IMM.**

Assessment Method(s): Performance Evaluation.

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

- 3. Use the Pythagorean Theorem to solve the right Triangle problems related to IMM.**

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 solving quantitative problems 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%
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TEXTS/MATERIALS

Contren, Industrial Maintenance Mechanic Level1, Prentice-Hall 2007

Submitted by: Ken Graham/Nancy Nunes-Gill

Area Department: B & W

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

Instructional Vice President Approval: Steven Eaton, AAVP

Curriculum Committee Approval Date: 11May12

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