

BARSTOW COMMUNITY COLLEGE COURSE OUTLINE –**IMMT 69****Dept & Nbr: IMMT 69****Abbrev Title: Material, Handling****Full Title: Material, Handling, Hand Rigging, Mobile and Support Equipment.****Old Number:****Title 5 Category:** Associate Degree Applicable.**Certificate Applicable:**

Units	Course Hrs per Week	Nbr of Weeks	Course Hrs Total
Max: 1.5	Lecture 1.25	18	Lecture 22.5
Min: 1.5	Lab .25		Lab 13.5
	Contact DHR 0.0		Contact DHR 0.0
	Contact Total 2.0		Contact Total 36.0
	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 in material handling, hand rigging, mobile and support equipment used for industrial maintenance mechanics.

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

1. Material Handling.
2. Hand Rigging.
3. Mobile and Support Equipment.

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

1. Identify and describe the uses of common rigging hardware and equipment.
2. Inspect common rigging equipment.
3. Select, use, and maintain special rigging equipment, including:
 - Jacks.
 - Block and tackle.
 - Chain hoist.
 - Come-along.
4. Tie Knots used in rigging.
5. Use and understand the correct hand signals to guide a crane operator.
6. Identify basic rigging and crane safety procedures.

COURSE-LEVEL STUDENT LEARNING OUTCOMES:

1. Perform a safety inspection on hooks, slings and other rigging equipment.

Assessment Method(s): Performance Evaluation.

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

2. Select, inspect and use special rigging equipment to include:

- Block and tackle.
- Chain hoists.
- Come-along.
- Jacks.
- Tuggers.

Assessment Method(s): Performance Evaluation.

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

3. Properly attach rigging hardware for routine lifts.

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 material handling, hand rigging, mobile and support equipment used industrial maintenance mechanics.
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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