**WILLIAM RAINEY HARPER COLLEGE CAREER AND TECHNICAL PROGRAMS DIVISION**

**GENERAL COURSE OUTLINE**

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| Course Prefix | Course Number | Course Title | *Contact Hours* |
| MFT | 109 | INTRODUCTION TO MANUFACTURING MAINTENANCE | 1.1  *Lecture/Demonstration*   1. *2. Lab/Studio* 2. 2 *Credit Hours* |

**Course Description**

Prerequisite: MFT 102 with a grade of C or better.

Provides a basic understanding of tools and equipment used in manufacturing and knowledge of how to improve productivity through predictive and preventive maintenance.

**Topical Outline**

1. Tools on the Job
2. Computers in Manufacturing Ill. Tool Related Safety
3. Ergonomics
4. Routine Maintenance
5. Preventive Maintenance
6. Predictive Maintenance
7. Equipment Procedures and Training

**Method of Presentation**

1. Class Discussion
2. Lecture
3. Laboratory
4. Other: Problem solving

**Student Outcomes (The student should)**

1. identify common tools and equipment.
2. identify how tools and equipment are used in manufacturing.
3. identify proper tool maintenance and housekeeping procedures.
4. identify safety systems and sensors on tools and equipment.
5. explain the purpose of preventive and predictive maintenance.
6. understand technical manuals and SOPs.

**Method of Evaluation**

* 1. *Typical classroom assessment techniques*

\_Projects

\_Class participation

\_Objective tests

\_Studio/Lab performance

\_Final exam

\_Portfolios

\_Essays/Term papers

\_Oral examination

\_Research report

B. *Course content learning outcomes*

\_lLQuizzes

\_Group participation

\_Case study assignments

\_Homework

\_Midterm Exam

\_lLExams

1. *Additional assessment information (optional).*

Student presentations

**Textbook**

* 1. *Required*

o Manufacturing Skill Standards Council. High-Performance Manufacturing. MSSC, 2006

o *Supplementary materials*

***None***

o *Software*

***None***

Prepared by: Darlene Niebuhr Fall 2013

CID: 3902

Language on the syllabi course materials developed by INAM funds:

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