



Wayne County Community College District

COURSE SYLLABUS

MAN 225 Introduction to Hard Machining

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

In this course students will study strategies and techniques for hard part machining including risks, rewards, tooling considerations and impact of hard machining on tool life and cycle times in a modern manufacturing facility.

PREREQUISITE: *CNC 235*

EXPECTED COMPETENCIES:

Upon successful completion of this course, the student will:

- Acquaint the student with basic skills required in Hard Machining.
- Acquire the essential information regarding Manufacturing Processing, and Math so the student can interpret Hard Machining Techniques.
- Develop the ability to solve problems with SPC.
- Foster desirable attitudes in the form of pride in workmanship, individual responsibilities and initiative and cooperation with fellow workers.
- Students will understand classification of machining systems, materials for cutting operations, dynamic manufacturing applications, cutting processes and tooling's monitoring, process planning, and quality systems.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E