

El Paso Community College

Syllabus

Part II

Official Course Description

SUBJECT AREA	<u>Industrial Manufacturing</u>
COURSE RUBRIC AND NUMBER	<u>INMT 2280</u>
COURSE TITLE	<u>Cooperative Education –Manufacturing Technology/Technician</u>
COURSE CREDIT HOURS	<u>2 1 9</u> Credits Lec Lab

I. Catalog Description

Provides career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (1:9).

II. Course Objectives

Upon satisfactory completion of this course, the student will be able to:

A. Safety

1. Work in a safe and productive manufacturing workplace.
2. Perform safety and environmental assessments.
3. Identify unsafe conditions and take corrective action.
4. Participate in safety training and equipment safety training.
5. Utilize effective, safety-enhancing workplace practices.

B. Manufacturing Processes and Production

1. Identify customer needs.
2. Determine resources available for the production process.
3. Set up and verify equipment for the production process.
4. Set team production goals.
5. Make job assignments.
6. Coordinate work flow with team members and other work groups.
7. Communicate production and material requirements and product specifications.
8. Perform, monitor and document the process to make the product.
9. Document product and process compliance with customer requirements.
10. Prepare final product for shipping or distribution.

C. Maintenance Awareness

1. Perform preventive maintenance and routine repair.
2. Recognize potential maintenance issues with basic production system, including knowledge of

when to inform maintenance personnel of problems with the different systems such as electrical, hydraulics, pneumatics, automation, etc.

D. Green Production

1. Monitor environmental aspects at each stage of production.
2. Implement continuous improvement in environmental assurance practices.
3. Utilize advanced materials in production to reduce weight and increase life.
4. Reprocess materials by recycling and reuse throughout product life cycle to optimize waste reduction.

E. Quality Practices and Measurements

1. Suggest continuous improvements.
2. Inspect materials and product/process at all stages to ensure they meet specifications.
3. Document the results of quality test.
4. Communicate quality issues.
5. Take corrective actions to restore or maintain quality.

A. THECB Learning Outcomes (WECM)

As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

IV. Evaluation

Evaluation is based upon the fulfillment of course objectives. The objectives must be completed within the designated time frame. Letter grades will be assigned as follows.

90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

A satisfactory completion will be signed off by the company (the employer where the tasks are being performed), representative and or a college faculty member charged with the student supervision.

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024)

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.