

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: AMFG 108

Credit hours: (3-2-3)

Course Title: Manufacturing Processes, Production, and Maintenance Awareness

Course Prerequisites: MATH 098, Co-requisite AMFG 107

Textbook(s): Amatrol/Sivad. Amatrol eLearning License Amatrol All and AME21 Libraries 4 Month. ISBN: Amatrol Prod# 206-WSC-IND4

Course Description: Lecture and lab covering basic manufacturing processes, production methods, and maintenance awareness techniques used in modern manufacturing. This course prepares the student to take the Manufacturing Processes and Production and Maintenance Awareness modules of the Manufacturing Skill Standards Council (MSSC) Certified Production Technician exam.

Learning Outcomes:

At the end of the course, the student will be able to

- A. identify internal and external customer needs;
- B. set up and verify equipment for the production process;
- C. make job assignments and coordinate work flow with team members and other work groups;
- D. document product and process compliance with customer requirements;
- E. perform preventative maintenance and routine repair; and
- F. recognize potential maintenance issues with basic production systems.

To achieve the learning outcomes, the student will or will be able to:

- 1. extract and document specific customer requirements for products and process including physical measurements and parameters; (A)
- 2. set up common manufacturing equipment for specific performance and document the set up information for re-use; (B)
- 3. make job assignments based on capability and available skills of team members; (C)
- 4. coordinate work flow such that production schedules are achieved and work flows efficiently; (C)
- 5. take measurements on in-process and finished product to document that customer requirements are met; (D)
- 6. perform or insure performance by others routine equipment maintenance according to established safety and procedural rules; (E) and
- 7. recognize pending maintenance issues with common electrical, pneumatic, and hydraulic systems (F).

Course Requirements: This course may be offered as a face-face or an online course. The certification exam(s) for this course is required to be taken on campus or an approved proctored environment.

Course Grading Scale:

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

Attendance Policy: The college attendance policy is available at <http://catalog.bpcc.edu/content.php?catoid=5&navoid=369>

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials laboratory supplies, software licenses, certification exams, and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

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