Bossier Parish Community College
Master Syllabus

Course Prefix and Number: OGPT 221 **Credits:** 4-3-3

Course Title: Field Processing of Oil and Gas

Course Prerequisite: OGPT 203

Textbook(s): None.

Course Description: Study and practice of oil and natural gas processing operations. The fundamentals of oil and gas processing; the scientific principles and how they apply; oil and gas plant processing equipment; and procedures from raw material to the refined product are also studied. Students demonstrate competency in use of the basic components of processing equipment and demonstrate various oil and gas plant operational procedures.

Learning Outcomes:
At the end of the course, the student will:

A. demonstrate familiarization with symbols and terminology used to identify, operate, and analyze the process systems;
B. determine and control the physical forces transmitted through the systems.
C. described all phases of the entire production process;
D. know flow characteristics and applications throughout the flow process and for each component in the process;
E. identify abnormal operating conditions and procedures for control;
F. determine handling of by-products during the flow process; and
G. determine the uses of external support systems of the process

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)

1. define terminology and measurement principles used in process flow; (A, C)
2. describe how transmission of forces and energy is controlled throughout the process; (B, D, E)
3. describe the operation of each process component; (C,F)
4. list different types of process components;
5. describe how the control of abnormal operating conditions is accomplished; (E, G)
6. identify valves, accumulators, flow controllers, and external support systems; (B, D, G)
7. identify values and explain the process from well bore to point of sales; (D, F, G)
8. draw the symbols, devices, and explain operation of the “flow control”; (A, D)
9. explain the uses of pressure control valves, pumps, external support systems; and (D, G)
10. describe the separation of produced hydrocarbons, and by-products to the point of sales. (C, D, F, G)

Course Grading Scale:

90% to 100% = A
80% to < 90% = B
70% to < 80% = C
60% to < 70% = D
< 60% = F

Attendance Policy: The college attendance policy is available at http://www.bpcc.edu/catalog/current/academicpolicies.html

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.

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