



Course Syllabus

**Recovery and Production Methods
PTRT 1307**

***** Note to Student *****

Student Success is our number one priority at Coastal Bend College and we realize that prompt, effective communication plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. If you ever have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Director of Technical Programs, or the Dean of Workforce, as soon as possible. Their contact information is provided below:

Coordinator of Industrial Workforce: Rolando Chavarria; 361-664-2981 EX 3027; rolandjr@coastalbend.edu
Director of Technical Program, Noemi Aguilar: 361-354-2306; aguilar@coastalbend.edu
Dean of Workforce Programs, Julia Garcia: (830) 569-4222 X1202; jgarcia@coastalbend.edu

- Course Description:** Petroleum recovery and production methods.
- Semester Hours Credit:** 3
- Lecture/Lab Hours:** Class meets for (2) lecture hours and (4) lab hours per week.
- Prerequisite:** Introductory
- Textbook(s):** Field Handling of Natural Gas, 4th ed. Published by Petroleum Extension Service, The University of Texas at Austin. ISBN: 0-88698-127-1
- End-of Course Outcomes:** The course will provide the student information required to understand the different types of artificial lift methods and recovery methods used in producing oil and gas wells. The course will also provide the student with basic skills useful in identifying and operating gas and oil production.

Upon completion of this course the student should be able to accomplish the following competencies:

1. Measure and calculate the gravity of oil and gas.
2. Describe the types of enhance recovery
3. Describe the operation of a basic rod pumping system.
4. Have a basic understanding of the characteristics of natural gas.
5. The student will have a basic knowledge of natural gas and liquid separation.
6. The student will have a basic knowledge of hydrates.
7. The student will have a basic knowledge of Dehydration of natural gas.



8. The student will have a basic knowledge of Miscellaneous Gas Conditioning.
9. The student will have a basic knowledge of the Measurement of Natural Gas and Gas liquids.
10. The student will have a basic knowledge of how to plan an Artificial Lift Program.
11. The student will have a basic knowledge of gas lift and plunger lift.
12. The student will have a basic knowledge of Gas Lift and Plunger lift.
13. The student will have a basic knowledge of Sucker Rod pumping.
14. The student will have a basic knowledge of Hydraulic Pumping.
15. The student will have a basic knowledge of Electric Submersible Pumping.
16. The student will have a basic knowledge of CO2 injections.
17. The student will have an understanding of lease layout, and different recovery methods.

Evaluation Methods:

Will be based on the following criteria:

Tests & Assignments	50%
Lab	25%
Final Exam	25%

A-100-90 Points, B 89-80, C 79-70, D 69-60, F 59 & Below

Student Learning Outcome: The student will describe in detail the equipment used on an oil an oil and gas producing lease operation and describe the function of each piece of equipment used on the lease.

ADA Statement: No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g).

See at: [GL \(Legal\)](#)

Special Needs Services: Students with special needs, including physical and learning disabilities, who wish to request accommodations in this course should contact the Student Development Office as soon as possible to make arrangements; this should occur no later than the second week of class or as soon as the student has the documentation on the disability and requested accommodation per a certified medical or psychological professional. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Student Development Advisor.

For more information, contact: in Alice at sdalice@coastalbend.edu; Beeville at sdbeeville@coastalbend.edu; Kingsville at sdkingsville@coastalbend.edu; and Pleasanton at sdpleasanton@coastalbend.edu.

Academic Dishonesty: Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College's rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a



violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies FLB (Local) and FM (Local). Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion.

See at: [FLB \(Local\)](#) and [FM \(Local\)](#).

See the [Student Handbook](#) for further explanation of Scholastic Dishonesty.

Copyright Law and Intellectual Property Rights Policy: Copyright is the right of an author, artist, composer or other creator of a work of authorship to control the use of his or her work by others. Protection extends to literary works, musical works, dramatic works, pantomimes and choreographic works, pictorial and graphic works, sculpture, motion pictures and other audiovisual works, sound recordings and architectural works. Generally speaking, a copyrighted work may not be reproduced by others without the copyright owner's permission. The public display or performance of copyrighted works is similarly restricted. Generally, the unauthorized reproduction, performance or distribution of a copyrighted work is copyright infringement and may subject the infringer to civil and criminal penalties. The Fair Use Doctrine outlines exceptions to this Law and is outlined in Coastal Bend College Policy, [CT \(Legal\)](#).

Coastal Bend College, its faculty, students and employees must comply with Copyright Law. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy [CT \(Legal\)](#) and [CT \(Local\)](#).

Questions regarding this information should be directed to the Director of Library Services at: library@coastalbend.edu or the Office of Marketing and Public Relations at: socialmedia@coastalbend.edu.

Intellectual Property: Student /Third Party Works: Rights to copyrightable or patentable works created by a student or a third party, that is, not a College District employee, shall reside with the author/ creator. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy [CT \(Legal\)](#) and [CT \(Local\)](#).

Questions regarding this information should be directed to the Director of Library Services at: library@coastalbend.edu or the Office of Marketing and Public Relations at: socialmedia@coastalbend.edu.

NOTE: The College website (www.coastalbend.edu) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.

Revised
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