

Common Course Numbering System

Your current Institution is CCCS

Searching Current Courses For Summer 2015

Course: PRO 250

Title: Oil and Gas Production I

Long Title: Oil and Gas Production I

Course Description: Familiarize the student with the duties and responsibilities of the oil and gas production technician. Specifically, students will be able to discuss the history of the oil market, concepts surrounding exploration and geology, fundamentals of drilling and well completion, and describe the operation of the equipment and systems used by the oil and gas production technician today.

Min Credit: 3

Max Credit:

Course Notes: Entered new course 6/15/06 s@

Origin Notes: RRCC

STANDARD COMPETENCIES:

- I. Describe the duties and responsibilities of the oil and gas production technician.
- II. Describe the oil and gas market place.
- III. Describe the equipment used in the production of oil and gas.
- IV. Describe the environmental, health and safety requirements for oil and gas production.
- V. Describe the basic geology of petroleum and gas reservoirs.
- VI. Describe the drilling systems and methods used in oil and gas production.
- VII. Describe the equipment used at a drilling site.
- VIII. Describe the oil and gas process flow through production systems and equipment.
- IX. Describe well completion and control processes.
- X. Describe well maintenance and overhaul requirements.
- XI. Demonstrate understanding of the operation of a completed oil or gas well.
- XII. Describe the use and application of reservoir fluids.
- XIII. Demonstrate understanding of the operation of separation and treatment systems.

TOPICAL OUTLINE:

- I. Oil and Gas Production Technician
 - A. Roles

- B. Responsibilities
- C. Safety, Health and Environment
- II. Petroleum and Petroleum Products
 - A. Market economics
 - B. Petroleum in the energy market
- III. Petroleum Geology
 - A. Petroleum Exploration
 - B. Mineral rights and land management.
- IV. Drilling Operations
 - A. On-shore
 - B. Off shore
 - C. Well types
- V. Well Operations
 - A. Well Completion,
 - B. Well Work-over and Servicing
- VI. Production
 - A. Wellhead Equipment
 - B. Wellhead System Operation and Maintenance
 - C. Well Shut-In
- VII. Hydrocarbon Chemistry
 - A. Alkanes and alkenes
 - B. Cyclic compounds
 - C. Contaminants
- VIII. Well Fluids Processing
 - A. Emulsion Separation and Treatment Overview
 - B. Emulsion Separation Systems
 - C. Emulsion Chemical Treatment Systems
 - D. Emulsion Heat Treatment Systems

RELEASE: 8.5.3

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