

Course Outcome Guide (COG)

Approved 01 MAY 2012

Course: PTLO 120	Recovery & Production Methods	Credits:	3	Instructor:	
Course Description:	Petroleum recovery and production methods associated in the oil & gas industry. Students will be expected to describe natural reservoir drive mechanisms, and artificial lift methods; identify the components of lift surface systems; identify factors used to select lift methods; and describe basic recovery methods.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> • Why artificial lift • Mechanics associated with lift • Gas Laws • Separation of fluids and gasses • Safety • Communication 	<ul style="list-style-type: none"> • Examine the concepts of reservoir pressures • Demonstration of mechanical concepts • Explore gas laws and their effects on a reservoir • Know when artificial lift is necessary 	<ol style="list-style-type: none"> 1. Practical exams requiring the student to identify different equipment 2. Written paper explaining the artificial lift process 3. Multiple choice exams 4. Group participation with various equipment. 	<ol style="list-style-type: none"> 1. Describe natural reservoir drive mechanisms 2. Explain the operation of artificial lift methods 3. Identify the components of lift surface systems 4. Identify factors used to select lift methods 5. Describe basic recovery procedures. 	Basic knowledge and skills required as a production technician in the petroleum industry	