

# Course Outcome Guide (COG)

Approved 01 MAY 2012

<b>Course: PTLO 121</b>	<b>Production Field Technology</b>	<b>Credits:</b>	3	<b>Instructor:</b>	
<b>Course Description:</b>	Students will study producing natural resources (oil & gas) from newly drilled and existing well locations to include, minimum surface equipment operations, well-head design, common field terminologies, pressure gauges, location and fluid flow layout, proper use of hand tools and equipment safety devices.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> <li>• Print reading</li> <li>• Hand tools</li> <li>• Safety</li> <li>• Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Identify surface equipment</li> <li>• Discuss the operation of equipment</li> <li>• Evaluate pressures and implement correct equipment</li> <li>• Demonstrate operation of safety devices on the location</li> <li>• Communicate with team what steps are needed to complete job</li> </ul>	<ol style="list-style-type: none"> <li>1. Practical exams requiring the student to identify different equipment</li> <li>2. Written paper explaining the production process</li> <li>3. Multiple choice exams</li> <li>4. Group participation constructing surface equipment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Design of components required for specific well-head</li> <li>2. Construct equipment based on schematics provided</li> <li>3. Identify correct hand and power tools for specific applications</li> <li>4. Select correct components based on project</li> </ol>	Basic knowledge and skills required as a production technician in the petroleum industry	