**Institution: Kilgore College Award Title: Associate of Applied Science**

**Program: Process Technology/Petroleum Specialty Award CIP Code: 15.0903**

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| **Key Activity** | Introduction to Petroleum Industry  PTRT 1401 | Process Instrumentation I  PTAC 1332 | Process Technology I – Equipment  PTAC 1310 | Process Technology II  Systems  PTAC 2420 | Process Technology III  Operations  PTAC 2438 | Safety and Ergonomics  ENTC 1347 | Natural Gas Processing I  PTRT 1317 | Natural Gas Production  PTRT 2323 | Refining Methods – Pipelining  PTRT 2343 |
| 1.1 Monitor and Regulate Wellhead Process Variables |  |  |  |  |  |  |  | X |  |
| 1.2 Operate Manual Wellhead Valves |  |  | X |  |  |  |  | X |  |
| 1.3 Test Wellhead Pneumatic/Hydraulic Valves | X |  |  |  |  |  |  |  |  |
| 1.4 Monitor and Regulate Well Production |  |  |  |  |  |  | X | X |  |
| 1.5 Perform Reservoir Maintenance |  |  |  |  |  |  |  | X |  |
| 2.1 Monitor and Regulate Separation Process Variables |  |  |  | X |  |  |  | X |  |
| 2.2 Adjust or Repair Separation System Safety Devices |  |  |  |  |  |  | X |  |  |
| 2.3 Set Separation System Operating Range |  |  |  |  |  |  | X |  |  |
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| 2.4 Operate Header System | X |  |  |  |  |  |  |  |  |
| 3.1 Monitor and Regulate Compressor Process Variables |  |  | X |  |  |  |  | X |  |
| 3.2 Adjust or Repair Compressor Safety Devices |  |  |  |  |  |  |  |  | X |
| 4.1 Monitor and Regulate Dehydration System Variables |  |  |  |  |  |  |  | X |  |
| 4.2 Adjust or Repair Dehydration System Safety Devices |  |  |  |  |  |  | X |  |  |
| 5.1 Monitor and Regulate Oil Treatment System Process Variables | X |  |  |  |  |  |  |  |  |
| 5.2 Adjust or Repair Oil Treatment Safety Devices | X |  |  |  |  |  |  |  |  |
| 5.3 Monitor and Regulate Oil Recovery |  |  |  |  |  |  |  | X |  |
| 6.1 Monitor and Regulate Water Treatment Process Variables |  |  |  |  |  |  |  | X |  |
| 6.2 Adjust or Repair Water Treatment Safety Devices | X |  |  |  |  |  |  |  |  |
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| 6.3 Test Produced/Collected Water |  |  |  |  |  |  |  | X |  |
| 7.1 Shut Down Facility In Normal Mode |  |  |  |  | X |  | X |  |  |
| 7.2 Shut Down Facility In Emergency Mode |  |  |  |  | X |  | X |  |  |
| 7.3 Start Up Facility After Normal Shut Down |  |  |  |  | X |  | X |  |  |
| 7.4 Start Up Facility After Emergency Shut Down |  |  |  |  | X |  | X |  |  |
| 8.1 Comply With External Regulations |  |  |  |  |  | X |  | X |  |
| 8.2 Comply With Internal Requirements |  |  |  |  |  | X |  | X |  |
| 8.3 Perform Administrative Functions |  |  |  |  |  |  |  | X |  |
| 8.4 Conduct Routine Maintenance |  |  |  |  |  |  |  |  | X |
| 9.1 Monitor Generator Equipment Variables |  |  |  |  |  |  | X |  |  |
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| 9.2 Monitor Primary and Back-up Power Sources |  |  |  |  |  |  |  |  | X |
| 10.1 Monitor and Regulate Flare Scrubber Variables | X |  |  |  |  |  |  |  |  |
| 10.2 Adjust or Repair Safety Devices | X |  |  |  |  |  |  |  |  |
| 10.3 Monitor and Regulate Fuel Gas Scrubber Variables |  |  |  |  |  |  | X |  |  |
| 10.4 Operate Crane | X |  |  |  |  |  |  |  |  |
| 10.5 Monitor and Regulate Instrument Air Supply Pressure to Pneumatic Panel |  | X |  |  |  |  | X |  |  |