The SPSP Specialized Award Operations Program is internationally accredited by PAAVQ-SET and is designed to provide students with a balanced combination of engineering theory and practical hands-on experience. This will ensure that on completion of the Operations Program the student will have the required job entry skills to work within the Petroleum Services industries. Each student will complete the Academic and PEO foundation training prior to covering the Operations Program.

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Program Outline

On completion of the Operations Program students will be able to:

- Describe the fundamentals of hydrocarbon processing including; the properties of solids, liquids and gases, the properties of hydrocarbons, process variables and electricity.
- Correctly identify the safety hazards within the hydrocarbon operations and the safety measures used to reduce these.
- Accurately describe the different types of drivers used for rotating equipment such as pumps, compressors and their operation.
- Demonstrate their understanding of valves, tanks, vessels, columns, furnaces, boilers, coolers and heat exchangers.
- Correctly interpret plant process drawings to trace the process flow, identify piping and instrument diagram loops and the symbols used.
- Safely operate a plant simulator using flow and level control in accordance with manufacturer’s guidance and instructions.
- Correctly describe the gas-oil recovery and processing production procedures.
- Accurately describe the routine plant operators duties during plant operation and maintenance activities.
- Follow procedures for tank, distillation, heat exchanger pilot plant and boiler simulator operations.
- Safely carry out operations on the air compressor pilot plant rig.

Specialized Award Operations Program Length 980 Hours