

## Module 1 – Fundamental of Process Technology

Course Introduction	This course provide participants with the fundamental knowledge of hydrocarbons and enhance their job performance as process technicians in executing and maintaining safe and reliable plant operations. Participants will also learn about interpreting process parameters when monitoring plant operations and performing routine checks on process units and equipment.
Course Objective	By the end of the course, participants will be able to: <ul style="list-style-type: none"><li>• Describe petroleum as a mixture of hydrocarbons, its useful fractions and their respective uses</li><li>• Describe the common families of hydrocarbons</li><li>• Describe the common products derived from hydrocarbons</li><li>• Identify the hazards of hydrocarbons</li><li>• Perform routine basic maintenance activities and in-process sampling of hydrocarbons in a safe manner</li><li>• Measure the common process parameters using process instruments</li><li>• Record common process parameters in appropriate units</li><li>• Use physical properties to describe various states of matters during plant operation</li></ul>
Course Outline	Topics include: <ul style="list-style-type: none"><li>• Hydrocarbons and the common families</li><li>• Common products from hydrocarbons</li><li>• Hazards and safe handling of hydrocarbons</li><li>• Common process parameters</li><li>• Standard units of measurement for common process parameters</li><li>• Use of physical properties to describe various states of matters</li></ul>