**Tasks for Course REP C 03 –**

**Introduction to Energy Science:**

* Task 01: Students can identify types and sources of energy and describe their common end-uses in Belize.
* Task 02: Students can identify the causes and consequences of climate change for Belize.
* Task 03: Students can identify sources of renewable energy.
* Task 04: Students can apply appropriate measurement units to energy system parameters and convert between different units of measurement.
* Task 05: Students can calculate forces, mass, velocity, and flows acting in energy systems.
* Task 06: Students can describe, convert, and use the physical properties pressure, temperature, and density.
* Task 07: Students can describe the concepts of heat and temperature.
* Task 08: Students can compute the energy and work available from kinetic energy and potential energy sources.
* Task 09: Students can compute energy flows for a system by applying the First Law of Thermodynamics (Conservation of Energy).
* Task 10: Students can summarize the Second Law of Thermodynamics and apply the concept of efficiency.