

# **NAPTA RECOMMENDED LEARNING OUTCOMES**

## **PROCESS SYSTEMS**

1. Describe and utilize process drawings, process controls, and energy/material balances associated with process systems.
2. Identify and explain the combinations of equipment into typical unit operations (reaction and separation systems) and the relationships among the different pieces of the equipment.
3. Identify and explain the combinations of equipment into common utility systems (cooling, heating, gas, etc.) and how they support the various unit operations within a plant.
4. Discuss the specific safety, health, and environmental concerns (examples: relief and flare systems, emergency shutdowns, etc.) associated with process systems.
5. Demonstrate an understanding of the operator's responsibilities for the safe and efficient operation of systems, including the interaction among the various pieces of equipment within these systems.