

NAPTA RECOMMENDED LEARNING OUTCOMES

PROCESS OPERATIONS

1. Using process diagrams (P&IDs, PFDs) and operating procedures describe how an operator would startup and operate a plant under normal operating conditions.
2. Describe the major steps performed during startup (initial commissioning, routine startup, and startup following a turnaround) of a process to meet normal operating conditions, including safety and environmental regulations.
3. Demonstrate roles and responsibilities of a process technician during normal operating activities (shift change, monitoring controls and equipment, sampling, communications, etc.).
4. Given an abnormal situation, identify appropriate corrective actions to return the process to either a steady-state operation or perform a safe emergency shutdown.
5. Describe the major steps performed during normal shutdown activities, including meeting safety and environmental regulations.
6. Describe steps taken to safely prepare equipment for both routine and shutdown maintenance activities (e.g., isolation, decontamination, permitting) and then returning equipment to service.