Equipment IV
Steam & Condensate Systems

Course Objectives

1. Describe the purpose of a steam and condensate system.
2. Identify the major equipment components and their function in a steam and condensate system.
3. Describe the energy flow path in a steam cycle system.
4. Describe the relationship of volume, temperature and pressure.
5. Describe how steam is generated and distributed throughout a chemical facility.
6. Describe the common safety hazards related to a steam and condensate system.
7. Describe the safety compliance for an operator and governmental regulation requirements that must be followed when working around steam and condensate systems.
8. Recognize the importance of lockout/tagout of steam and condensate systems.

Key Terms (Define the following)

steam cycle - _____

_____

boiler - _____

_____

turbine - _____

_____

generator - _____

_____

condenser- _____

_____

downcomers - _____

_____

riser tubes - _____

saturated water - _____

saturated steam - _____

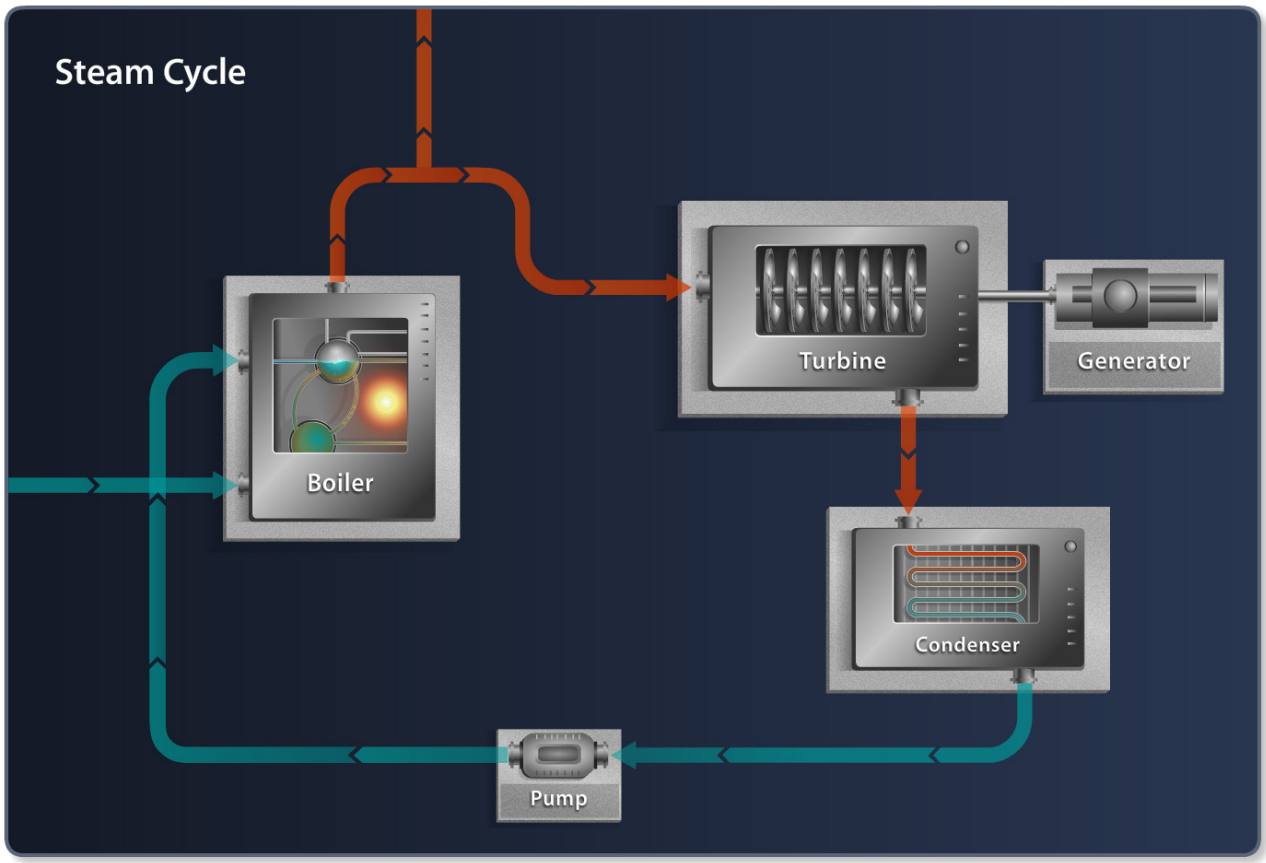
economizer - _____

flash tank - _____

steam trap - _____

water tubes - _____

Principles



Questions

1. List the uses of steam in a chemical industry.

2. List the reasons why recapturing condensate is critical for a company.