

Thermodynamics Learning Objectives:

Topic: Energy balance based on First and Second Law of Thermodynamics

Write the general energy balance equation based on First and Second law of thermodynamics for a steady state system (Knowledge)

Be able to interpret the problem statement and associate the provided information with the general energy balance equation (Comprehension)

Solve the problem based on the provided information and energy balance equation (Application)

Apply an energy balance to determine unknown mass or energy streams for a complex system (Analysis)

Determine if the energy requirements of a system are physically realistic and defend your determination (Evaluation)