

# Engineering Certification Practice Test Questions and Answers

## 1. What is cavitation in fluid systems?

- A) Build-up of mineral deposits inside pipes
- B) Formation and collapse of vapor bubbles due to local pressure drop below vapor pressure
- C) Turbulent mixing of two different fluids
- D) Increase in fluid viscosity at low temperatures

## 2. What is a root cause analysis used for?

- A) To identify the underlying cause of a problem rather than just addressing symptoms
- B) To assign blame to individuals who made mistakes
- C) To calculate the financial cost of errors
- D) To document problems for annual reporting

## 3. What is the neutral axis of a beam cross-section?

- A) The axis of maximum shear stress
- B) The axis along which bending stress is zero
- C) The axis of maximum deflection
- D) The centroid of applied loads

## 4. In thermodynamics, what is enthalpy (H) defined as?

- A)  $H = U - PV$
- B)  $H = U + PV$
- C)  $H = TS - PV$
- D)  $H = Q/T$

**Answers: 1-B 2-A 3-B 4-B**

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