



Qualifying Question

List these items in chronological order of their very first publication:

a) IEEE P1547

b) NFPA 50A

c) ANSI Z21.83

d) ANSI/ASME B31.8

Answer: d) ANSI/ASME B31.8 (1958)

b) NFPA 50A (1969)

c) ANSI Z21.83 (1998)

a) IEEE P1547 (2003)

Question 1

Which of these is currently required by code for refueling a fuel cell vehicle:

- a) **Explosion-proof clothing**
- b) **Fire resistant clothing**
- c) **Clothing**
- d) **None of these**

Answer: d) None of these

Question 2

The inventor of the “gas battery” in 1838 was:

- a) Sir William Robert Grove b) Sir Robert Grover Williams
- c) Sir Stephen Grover Cleveland d) Al Gore

Answer: a) Sir William Robert Grove

Question 3

Which of these organization do NOT write standards involving Equipment Design:

a) ASHRAE

b) ASME

c) ANSI

d) UL

Answer: c) ANSI

Question 4

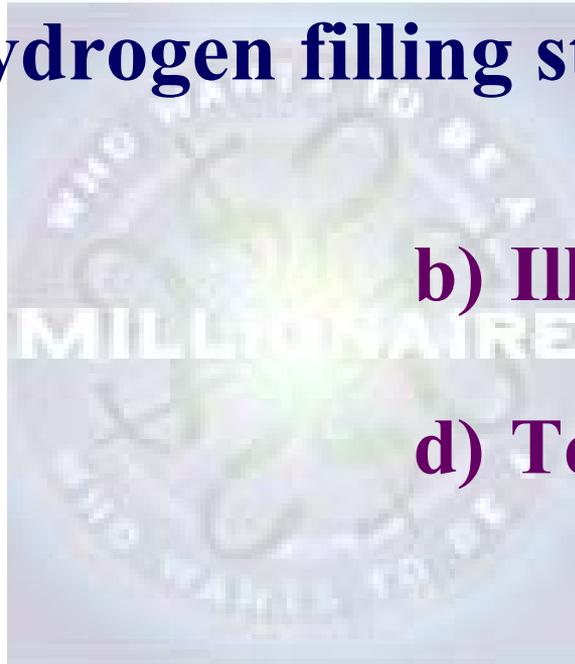
Which State currently has more than one hydrogen filling station?

a) California

b) Illinois

c) Nevada

d) Texas



Answer: d) California

Question 5

Liquid hydrogen is stored at:

- a) 10 degrees F b) -425 degrees F
c) -452 degrees F d) -320 degrees F

Answer: b) -425 degrees F

Question 6

Which fuel has the highest energy content per unit weight?

a) Gasoline

b) Propane

c) Natural Gas

d) Hydrogen

Answer: d) Hydrogen

Question 7

Your company installs prepackaged stationary fuel cell systems (including fuel processor, stack, voltage conditioner, and all necessary piping and wiring).

Your company has been asked to replace a failed fuel processor in an existing system that was installed by a manufacturer who has since gone out of business. Under what circumstances does the entire system NOT have to be re-evaluated under ANSI Z21.83, Fuel Cell Power Plants?

- a) If you replaced the fuel processor between 12:00 am and 5:00 am and didn't tell anyone**
- b) If the fuel processor has been certified separately under CSA 5.99, Hydrogen Generators, as a stand-alone component (but not in combination with any of the equipment your company installs)**
- c) If the exact configuration that will result has been previously approved by an official in a neighboring jurisdiction**
- d) None of these**

Answer: d) None of these

Question 8

Which of these standards is NOT published in a final form?

a) SAE J2600
Fueling Connectors

b) CGA G-5.3
Hydrogen Commercial
Specification

c) ANSI CSA NGV 4
Dispensing Systems
for Hydrogen

d) CGA G-5.4
Hydrogen Piping
Systems

***Answer:* c) ANSI CSA NGV 4
Dispensing Systems
for Hydrogen**

Question 9

Which input fuel would presently NOT fall within the scope of the proposed ANSI/CSA FC 1, Stationary Fuel Cell Power Systems?

a) Ammonia

b) Zinc particulate conveyed in a non-flammable liquid medium

c) Anaerobic digester gas

d) Diesel

Answer: a) Ammonia

Question 10

Stationary fuel cell power plants installed inside of buildings shall be provided with process ventilation air (a.k.a., dilution, exhaust or make-up air) to contain flammable effluents of concern during normal operations except power plants:

- a) $\leq 50\text{kW}$
- b) Installed in accordance with NFPA 853
- c) Having sealed, direct vented compartments
- d) Installed in accordance with the manufacturer's instructions

***Answer:* c) Having sealed,
direct vented compartments**