Fuel Cell Standards

XIV Hydrogen Safety and PPE

XIV.a Hydrogen PPE

Overview:

Classroom and lab topics

- Eye Protection
- Personal clothing recommendation
- Fire resistant smocks (Nomex, etc.)
- Fire resistant gloves (leather, Nomex, etc.)
- Personal hydrogen detection

Description:

Working on hydrogen systems requires general PPE for high pressure compressed gases and PPE for flammable gases.

Outcome (Goal):

As with High Voltage PPE, Students that are engaged in maintaining, servicing, and diagnosing Hydrogen Fuel Cell Systems will need to wear PPE specific to hydrogen systems safety. Learning skills in what PPE to wear, when to use, how to field test and maintain it are key metrics for ensuring safety when working on high pressure hydrogen systems.

Objectives

Student will be able to:

1. List risks associated when interfacing with hydrogen

2. Utilize the correct PPE and safety protocols when are required by OEM service information.
3. Perform a field inspection and testing of hydrogen PPE
4. Utilize personal hydrogen detection equipment.

Tasks:

Students will

1. Properly select, wear, and use hydrogen PPE
2. Perform a field inspection and testing of hydrogen PPE
3. Demonstrate how to properly utilize hydrogen detection equipment

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To comment or offer suggestions on this standard, contact Ken Mays:

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