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Hydrogen is a green and flexible source of energy. The world is moving toward a zero-emission future, it is increasingly clear that hydrogen fuel is an important energy substitution to combat climate change. Even though hydrogen production and safe handling is well-understood by the oil and gas industries, hydrogen safety in other sectors such as hydrogen fuel cells, electrolysis production, and the general public have not yet matured. As hydrogen's applications and demands increase, safe hydrogen production, transportation, and handling have become more important than ever. By implementing elements of Process Safety Management, knowledge can be transferred to the new industries to help better manage the hazard of hydrogen in their facilities.