



**ANSI Committee on Education**

***Standardization Case Studies***

**ACCOMPANYING QUESTION AND ANSWER WORKSHEET**

As appropriate, please suggest recommended study, test or quiz questions / answers to accompany the case study proposed above.

<b>Proposed Question</b>	What is fuel cell energy?
<b>Proposed Answer</b>	Fuel cells are fuel conversion devices that can produce electricity from a fuel source, such as methanol or hydrogen gas, and an oxidant. The process of converting to energy is electrochemical and does not involve combustion, so fuel cells are efficient, quiet, and clean.

<b>Proposed Question</b>	In Canada, how did the Government's Action Plan 2000 address fuel cell energy?
<b>Proposed Answer</b>	The Action Plan 2000 provided up to \$500 million to support initiatives that would reduce Green House Gas emissions. Alternative fuel sources were mentioned including the increased promotion of fuel cell technology.

<b>Proposed Question</b>	What is the Canadian Hydrogen Installation Code (CHIC)?
<b>Proposed Answer</b>	The CHIC helps to secure approval for CTFCA's hydrogen demonstration projects. It helps to promote commercialization and

Please return completed Project Worksheet to [training@ansi.org](mailto:training@ansi.org).

Questions can be directed to [Lisa Rajchel](mailto:Lisa.Rajchel@ansi.org) (212.642.4932) or [Stacy Leistner](mailto:Stacy.Leistner@ansi.org) (212.642.4931)

	increased use of fuel cell technology.
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<b>Proposed Question</b>	Provide a list of existing Fuel Cell Standards.
<b>Proposed Answer</b>	ANSI/CSA America FC3 IEC 62282-2 Part 2: Fuel Cell Modules

### Codes & Standards – USA (CSA FC 3)

#### ANSI/CSA America FC3-2004

#### American National Standard For Portable Fuel Cell Power Systems

<b>Scope</b>	This standard applies to ac and dc type portable fuel cell power systems, with a rated output voltage not exceeding 600V, for commercial, industrial and residential indoor use in non-hazardous locations.
<b>Status</b>	Published in 2004. Considering adopting IEC 62282-5-1 (TC105 WG#7) when it is published in 2007.
<b>Contact</b>	Connie Bielawski, CSA America

#### IEC 62282-5-1 Ed. 1.0 Bilingual

Covers construction, marking and test requirements for a.c. and d.c. type portable fuel cell systems. These fuel cell systems are movable and not fastened or otherwise secured to a specific location. The purpose of a portable fuel cell system is to produce useable power.