

Hydrogen Emergency Response: Training for First Responders

The use of hydrogen and fuel cell technologies is emerging in certain parts of the country—through vehicle demonstration programs and early deployment of stationary fuel cells for on-site power generation. To help first responders prepare for hydrogen and fuel cell use in their communities, the U.S. Department of Energy (DOE) has developed hydrogen safety training for first responders.

Hydrogen Emergency Response: Training for First Responders is designed to educate first responders about the unique properties of hydrogen and the special characteristics of fuel cells and hydrogen vehicles, and to provide appropriate safety and emergency response information. The 8-hour course includes classroom instruction, group exercises involving incident scenarios, a quiz, and a hands-on, live-fire exercise using a fuel cell vehicle (FCV) burn prop.



This course covers the following topics:

- ✓ Comparison of the properties of hydrogen with those of other commonly used fuels
- ✓ The basics of how a fuel cell operates
- ✓ Hydrogen vehicles, components, and safety systems
- ✓ Stationary facilities that store, dispense, and use hydrogen, and their safety systems
- ✓ Emergency response principles for both hydrogen vehicles and stationary facilities

After participating in the training course, students will be able to:

- ✓ **Identify** a hydrogen vehicle, a stationary hydrogen facility, a hydrogen transport vehicle, and a hydrogen leak or flame.
- ✓ **Articulate** the similarities and differences between hydrogen and other fuels and between hydrogen vehicles and other vehicles.
- ✓ **Explain** the basic characteristics of hydrogen storage facilities, hydrogen fueling stations, and stationary fuel cell installations.
- ✓ **Recognize** the safety features of hydrogen vehicles and stationary hydrogen facilities.
- ✓ **Describe and implement** appropriate emergency response actions to deal with an incident involving hydrogen or a hydrogen vehicle.



Scheduled Course Delivery

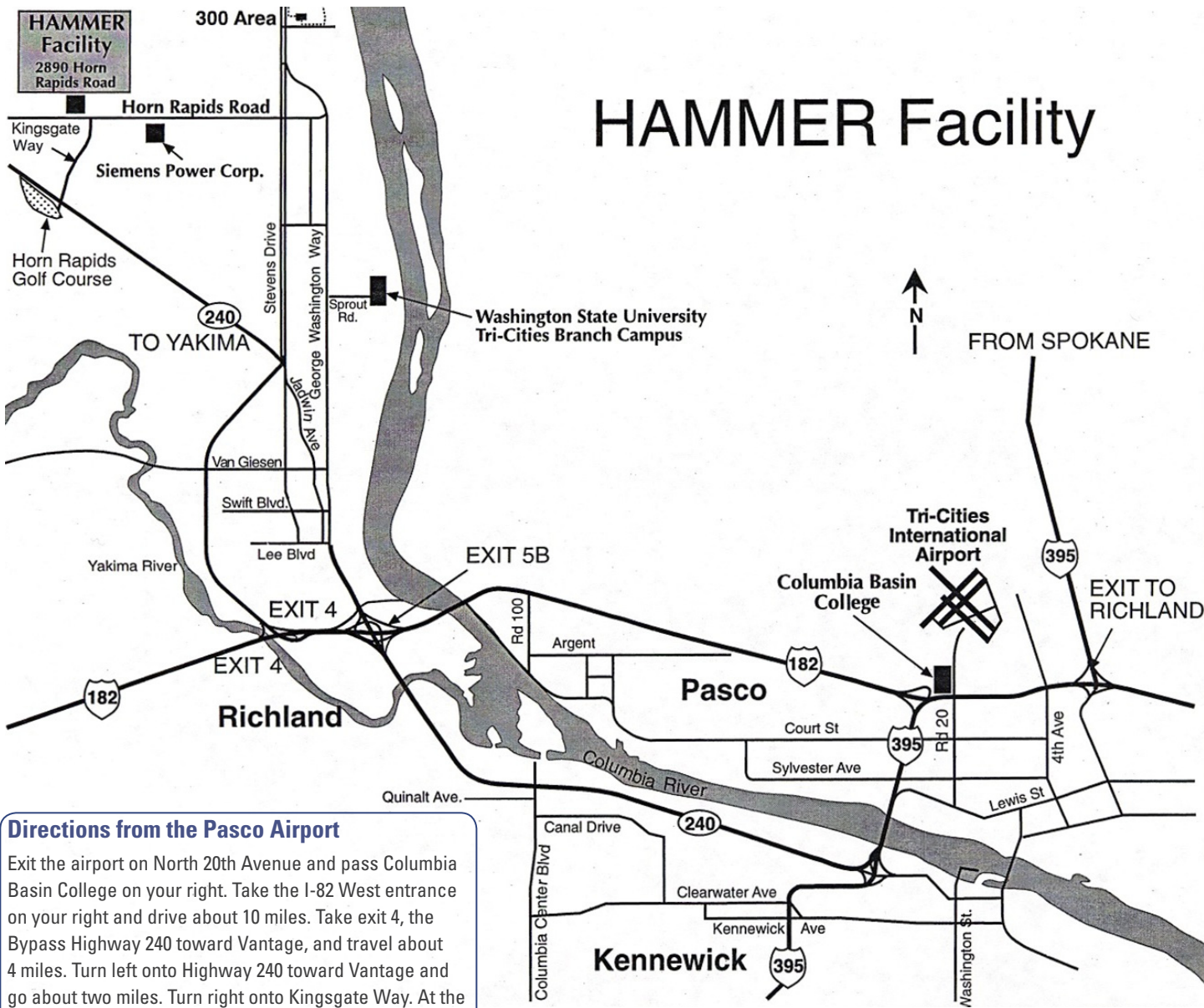
All courses offered during 2009 will be held at the HAMMER facilities in Richland, WA. Courses are scheduled for June 16 and August 18. In future years, the course may be scheduled at other locations.

Financial Aid for Participants

DOE has authorized financial assistance for a limited number of first responders to participate in these courses. Travel and other expenses may be covered to help defray expenses.

Registration

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HAMMER Facility

Directions from the Pasco Airport

Exit the airport on North 20th Avenue and pass Columbia Basin College on your right. Take the I-82 West entrance on your right and drive about 10 miles. Take exit 4, the Bypass Highway 240 toward Vantage, and travel about 4 miles. Turn left onto Highway 240 toward Vantage and go about two miles. Turn right onto Kingsgate Way. At the stop sign, turn left onto Horn Rapids Road. HAMMER will be on your right in about ¼ mile. Turn right into the first entrance. The Administration Building receptionist will direct you to the classroom.

Volpentest HAMMER Training and Education Center Location Map