

# HSP Mentoring Program Application Form

Date: \_\_\_\_\_

## Part I: Applicant Information

### Candidate Personal Information

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

**Area(s) of Expertise:**

**Description of Hydrogen Technologies Involvement**

## Part II: Hydrogen Safety Technical Area Identification

Please identify your technical interest and current level of expertise (please insert an “X” in the appropriate table cell).

ID	Areas of Expertise	Novice	Advanced Beginner	Competent	Proficient	Expert
1	Overall understanding of chemical process systems					
2	Chemical process systems design					
3	Chemical process systems construction					
4	Chemical process systems maintenance					
5	Chemical process systems operation					
6	Process piping design, construction, maintenance, and operation					
7	ASME codes and standards, primarily piping, secondarily pressure vessels					
8	Hydrogen production					
9	Water electrolysis systems					
10	Natural gas reforming					
11	Fuel cell systems					
12	Hazards analysis					
13	Computational fluid dynamic (CFD) modeling					
14	Combustion consequence assessments					
15	H2 fueling station design					
16	Storage vessel design					
17	Composite overwrapped pressure vessels (COPVS)					
18	H2 fast fill heat transfer					
19	Failure analysis and investigations					
20	Liquid H2 hazards and systems					
21	Water electrolysis process safety					
22	Research laboratory safety					
23	H2 safety training					
24	Process hazard analysis (PHA) / HAZOP (hazard and operability study) facilitation					

ID	Areas of Expertise	Novice	Advanced Beginner	Competent	Proficient	Expert
25	Emergency management (planning, response, mitigation, recovery)					
26	Modeling for consequence assessment of health effects from hazardous materials					
27	Transportation Emergency Response Guidebook (ERG)					
28	Fire protection (hazards identification, control, mitigation)					
29	Life safety provisions (NFPA)					
30	Hydrogen hazards testing and hazards analysis					
31	Fire extinguishing					
32	Oxygen hazards testing and hazards Analysis					
33	Hazardous testing and analysis					
34	Explosive technology (explosion and combustion technology)					
35	Materials and materials compatibility assessments					
36	Chemical hazards					
37	Piping and instrumentation diagram (P&ID) development					
38	Codes and standards use/development					
39	Process controls					
40	H2 system operation					
41	Hydrogen transportation					
42	Incident investigation					

**If none of the above, please specify:**

*(Please enter your technical interest and/or areas of expertise if not listed above).*

**Please return the following documents in a zip file to [hsp@h2tools.org](mailto:hsp@h2tools.org)**

- Application form
- Cover letter
- Current CV
- Two letters of professional reference
- A letter of support signed by your current employer