# COMPETENCY CHECKLIST
# HAZARD/RISK ASSESSMENT

Technician: _____ Date: _____/_____/_____

The following hazard/risk assessment competencies should be assessed during tabletop exercises or simulated incidents.

| AREA 2.3<br>HAZARD/RISK ASSESSMENT – SCIENCE AND RESEARCH | | | |
|---|---|---|---|
| **No.** | **Requirement** | | |
| 2.3.1 | Given no less than 5 incident scenarios, demonstrate the ability to select the reference sources or databases necessary to complete a hazard/risk assessment of the involved materials. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.2 | Given no less than 5 incident scenarios, demonstrate the ability to obtain from employer provided reference materials and databases the information necessary to assess the hazards of given materials. This assessment shall include: 1) information concerning material identity and environmental reporting requirements, 2) physical and chemical characteristics, 3) flammability or combustibility, 4) toxicity information including all published exposure limits, 5) reactivity and radioactivity data, fire leak and spill control considerations, and 6) proper packaging and disposal procedures. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.3 | Given incident scenarios including research data and data from air monitoring instruments, the technician will demonstrate the ability to assess the risks to response personnel and the public. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.4 | Given 5 hazardous materials scenarios, the technician will determine the signs and symptoms of over-exposure to the materials involved. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.5 | Given 2 hazardous materials scenarios involving multiple hazardous substances, the technician shall rank the materials with regards to anticipated level of risk. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.6 | Given equipment provided by the employer, demonstrate the ability to setup real time surface meteorological monitoring capabilities and properly to interface the equipment with computers used for dispersion modeling. | _____<br>(Signature) | __/__/__<br>(Date) |

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| AREA 2.3<br>HAZARD/RISK ASSESSMENT – SCIENCE AND RESEARCH | | | |
|---|---|---|---|
| **No.** | **Requirement** | | |
| 2.3.7 | Given the quantity, concentration and rate of release of a material, the technician shall demonstrate the ability to model and predict dispersion patterns and necessary evacuation areas using employer provided databases and computer modeling software. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.8 | Given the quantity, concentration and rate of release of a material, the technician shall demonstrate the ability to assess potential shelter in-place options. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.9 | Demonstrate the ability to predict the necessary evacuation area for a leak from a domestic gas line and develop an air-monitoring plan necessary to validate those predicted areas. | _____<br>(Signature) | __/__/__<br>(Date) |
| 2.3.10 | Given equipment provided by the employer, demonstrate the ability to: 1) access the internet by remote or other available field means and 2) establish field capabilities to send and receive facsimile transmissions, establish verbal communications with the community's Emergency Operations Center, local medical facilities and the Florida State Warning Point . | _____<br>(Signature) | __/__/__<br>(Date) |
| **Evaluator Remarks** | | | |
| | | _____<br>(Signature) | __/__/__<br>(Date) |