**Confined Space Below-Grade Entry Skill Sheet**

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

Observer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🞏 Pass 🞏 Fail

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| Equipment Used for Observation: | Make | Model |
| Body Harness |  |  |
| Tripod |  |  |
| Fall Arrest Lanyard |  |  |
| Air Monitor |  |  |

\_\_\_\_\_\_ (initial) I have reviewed the Owners/Operator’s manuals for the above equipment and been given an opportunity to ask questions.

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| **Donning the Body Harness** | |
| *The student shall don the body harness in 4 minutes without missing any critical steps\*.* | |
| Student inspects straps, buckles, stitching & connectors for obvious defects | 🞏 Pass 🞏 Fail |
| Student dons the body harness similar to a jacket. | 🞏 Pass 🞏 Fail |
| \*Student passes leg strap from rear to front of body and connects buckle. | 🞏 Pass 🞏 Fail |
| \*Student positions leg strap in crease of thigh, adjusts to 4-fingers of tightness, and secures excess strap for each leg. | 🞏 Pass 🞏 Fail |
| \*Student adjusts the two vertical shoulder straps and secures excess straps. | 🞏 Pass 🞏 Fail |
| \*Student connects breast strap, adjusts for tightness, and secures excess straps. | 🞏 Pass 🞏 Fail |
| \*Student seats the harness by bending over to touch toes, reaching upward, simulating climbing ladder, and squatting. Student makes necessary adjustments. | 🞏 Pass 🞏 Fail |

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| **Setting up the Tripod** | |
| *The student shall set up the tripod in 5 minutes with 100% accuracy.* | |
| Student extends leg chains and straightens/ untwists | 🞏 Pass 🞏 Fail |
| Student extends center leg fully, inserts pin in last hole and locks in place | 🞏 Pass 🞏 Fail |
| Student fully extends other 2 legs, inserts pins in last holes, and locks pins in place | 🞏 Pass 🞏 Fail |
| Student raises tripod to vertical, spreads the legs to stabilize tripod, and inserts top pins in each leg. | 🞏 Pass 🞏 Fail |
| Student pegs and locks material winch to one leg of tripod. Student cranks out about 5’ of cable and connects pulley to eye bolt at top of tripod with carabiner. | 🞏 Pass 🞏 Fail |
| Student positions 3-way rescue winch housing with cable at top on second leg of tripod, inserts pins and locks in place. | 🞏 Pass 🞏 Fail |
| Student connects pulley to 2nd eye bolt at top of tripod with carabiner. | 🞏 Pass 🞏 Fail |
| Student slowly pulls out rescue cable to test. Cable extends and retracts smoothly. | 🞏 Pass 🞏 Fail |
| Student tests fall arrest break by pulling sharply on rescue cable. Cable locks. | 🞏 Pass 🞏 Fail |
| Student tests recovery operation of rescue winch by having a 2nd person pulling sharply on rescue cable and holding in locked position. Student operates the knurled knob and winch handle to retract and extend the winch cable forward and backwards smoothly. | 🞏 Pass 🞏 Fail |
| Student tests holding power of winch handle by pulling slowly on cable. Handle should not free wheel. | 🞏 Pass 🞏 Fail |
| With assistance, student moves tripod over entrance to sub-grade area. Extend legs and uses adjustment link to take slack out of leg chains. Level top of tripod by adjusting lengths of legs. Secure pins in new positions. | 🞏 Pass 🞏 Fail |
| Rescue cable is attached to rear D-ring of body harness | 🞏 Pass 🞏 Fail |
| **Simulating non-Entry Rescue of Unconscious Entrant with Rescue Winch** | |
| *The student shall make a timely simulated non-entry retrieval of an incapacitated entrant* | |
| Student recognizes the need for a non-entry retrieval of entrant and makes notification to emergency responders. | 🞏 Pass 🞏 Fail |
| Student engages rescue winch, and turns hand clockwise to raise entrant so waist is above the level of ground. | 🞏 Pass 🞏 Fail |
| Student moves to between tripod legs with material and rescue winches and turns entrant so entrant’s back faces you. | 🞏 Pass 🞏 Fail |
| Student grabs high on tripod and pulls tripod towards them, while backing up and lays tripod on ground. | 🞏 Pass 🞏 Fail |
| Student moves to begin assessment of entrant. | 🞏 Pass 🞏 Fail |

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| **Demonstrated Skill: Monitoring the atmosphere in a below-grade confined space** | |
| *The student shall conduct air monitoring of a confined space with 100% accuracy.* | |
| Student turns on the monitor by pressing ⭘. Unit activates. Student observes self-test and verifies proper operation of monitor/detector. | 🞏 Pass 🞏 Fail |
| Student tests pump by briefly covering inlet connection. | 🞏 Pass 🞏 Fail |
| Student connects sampling hose to inlet connection and pinches end of hose to test for tight connections. Pump alarm sounds. | 🞏 Pass 🞏 Fail |
| Student tests atmosphere at entrance to confined space BEFORE removing cover, allowing 2 seconds for each 1 foot of sampling tube + 2 minutes (two by two rule). | 🞏 Pass 🞏 Fail |
| If atmosphere is safe, remove cover to confined space and test again at entrance using ‘two by two rule’ as above. | 🞏 Pass 🞏 Fail |
| Student continues atmospheric testing at 4 ft. intervals using ‘two by two rule’. | 🞏 Pass 🞏 Fail |
| Student completes air sampling portion of Confined Space Permit. | 🞏 Pass 🞏 Fail |

Comments: