

**MODULE 1-d. TOOL LAB**

**TOOL LAB REVIEW  
COURSE SYLLABUS**

The Tool Lab is specifically designed to review fundamental principles of tool operation, pre-use and post use inspections, safety concerns, basic field level maintenance, trouble shooting and tool design limitations. Essentially it provides a brief opportunity to familiarize and review each tool prior to the Student using the tool in the given workstations. The Students are at "Instructor" level and should already have basic knowledge regarding the use of these rescue cutting, breaking, and burning tools, from the US&R cache. Each Student has a TOOL REVIEW CHECK OFF form to document successful and/or unsuccessful attempts defining knowledge, comprehension, and safe application of each of the four Tool Lab stations. The sign off process of the performance objective sheets should be initiated during their Tool Lab Review rotations. However, if the Student can not demonstrate proficiency, or due to time restraints during the Tool Lab Review, these check off sheets can be completed during participation in the eight-day "Train the Trainer" program.

**TOOL LAB REVIEW ROTATIONS:**

**STATION (1) :STANLEY TOOL**

- Review Stanley Tools, Components, and Accessories
- Pre-Use Inspection, Fluids, Hose Connections, Tool Condition, Required GPM Water Supply
- Safety Considerations
- Start Up / Shut Down Procedures and Maintenance
- Tool Operation, Function, Design, and Limitations
- Observe and document Student performance following Check Off sheets

**ELECTRICAL TOOLS**

- Review Electrical Tools, Components, and Accessories
- Pre-Use Inspections of Tools, Extension Cords and Power Supply Source
- Safety Considerations
- Tool Operation ,Attachments, Limitations, and Maintenance
- Observe and document Student performance following Check Off sheets

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**STATION (2) GASOLINE TOOLS-CHAIN SAWS, ROTARY CUTOFF**

- Review Chainsaw and Rotary Cutoff saw Components and Accessories
- Pre-Use Inspection, Fluids, Tool and Blade Condition
- Safety Considerations
- Start Up / Shut Down Procedures and Maintenance
- Tool Operation, Function, Design and Limitations
- Blade or Chain/Guide Bar Replacement, Adjustment
- Basic Trouble Shooting
- Observe and document Student performance following Check Off sheets

**GASOLINE TOOLS-CORING DRILLS, RECIPROCATING (If available)**

- Review Coring Drill Components and Accessories
- Pre-Use Inspection, Fluids, Core Drill Bits, Water Supply
- Safety Considerations
- Start Up / Shut Down Procedures and Maintenance
- Tool Operation, Function, Design and Limitations
- Core Bit Replacement and Field Resurfacing
- Observe and document Student performance following Check Off sheets

**STATION (3) HILTI TOOL**

- Review Hilti Tool Components and Accessories
- Pre-Use Inspection
- Safety Considerations for Operation, Loading, and Discharge
- Tool Operation, Function, Design, and Limitations
- Maintenance
- Observe and document Student performance following Check Off sheets

**ANCHOR KITS**

- Review Anchor Kit Components and Accessories
- Limitations and Applications of Anchoring Equipment, Tools, and Components
- Review Torque Wrench Procedures
- Observe and document Student performance following Check Off sheets

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**Station 3: continued**

**PASLODE NAILER AND PNEUMATIC NAIL GUN**

- Review Paslode Nail Gun and Pneumatic Nailers
- Pre-Use Inspections
- Safety Considerations for Operation, Loading ,and Discharge
- Tool Operation, Function, Design and Limitations
- Maintenance
- Observe and document Student performance following Check off sheets

**PNEUMATIC WIZZER SAW**

- Review Wizzer Saw Components and Accessories
- Pre Use Inspection
- Blade types, Blade Changes, Maintenance
- Safety Considerations for Cutting Operation
- Observe and document Student performance following Check off sheets

**STATION (4) OXY-ACETYLENE TORCHES/MAPP  
GAS/EXOTHERMIC AND SEELER (If Available)**

- Review Oxy-Acetylene Torches / MAPP / Exothermic / Seeler Components and Accessories
- Pre-Use Inspection and Set Up for each different type
- Safety Considerations for each different type
- Torch Ignition / Shut Down Procedures for each different type
- Torch Operation, Function, Design and Limitations for each type
- Maintenance Procedures for each different type  
Observe and document Student performance following Check Off sheets