



UNC
ENVIRONMENT,
HEALTH & SAFETY




Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC:

Motor Scrubber Model MS 1000



| Title | Work Task | Hazards | Controls |
|--|---|--|---|
| Preplan Work | Know specific job task and be familiar with work area environment before starting work. | Personal Injury-back or lifting | Sign Motor Scrubber out using the Equipment Safety Checkout & Check In log. |
| PPE    | Safety glasses, Shoe grippers, Nitrile gloves | Eye Hazard Chemical Contact Slips, Trips and Falls | Proper donning and doffing of PPE |

Motor Scrubber Inspection and Assembly



Inspect for damage before using Motor Scrubber.

1. Remove motor housing and yoke from carton. Connect the electrical plug from the yoke to the electrical plug from the end of handle. Push together **FIRMLY**.
2. To operate Motor Scrubber using the rechargeable battery, connect the electrical plug from the battery with the electrical plug in the red grip handle. **(Do this function after ALL other assembly is completed.)**
3. Attach hub to motor assembly using the flat washer, lock washer, and bolt provided. **Make sure to assemble in that order.**

Electric Shock

Make sure to check power cord.

Report and remove any damaged parts or equipment and report damage to supervisor.



Installation of Motor Scrubber discs



1. Line-up the tabs on the disc with the hub on the bottom of the Motor Scrubber.
2. Press down while turning the disc clockwise until it locks in place. Hold hub to prevent rotation.
3. To remove, press down on the disc and turn it counter-clockwise until tabs are free. Then lift off the disc.

Hand Injury

| Title | Work Task | Hazards | Controls |
|--------------------------------|--|--|---|
| Operation | <ol style="list-style-type: none"> 1. Apply soap/cleaning solution (264) to the surface or directly to the scrub disc to remove loose dirt. Use of a mop bucket with soap concentrate can be used to dip the scrub disc in also. 2. Scrub with straight light strokes. You do not have to exert pressure. 3. Motor Scrubber is NOT designed for prolonged use under water; it is immersible, but DO NOT submerge for prolonged periods. | <p>Eye Injury Back Injury Chemical contact</p> | <p>Do not use Motor Scrubber with flammable cleaning fluids.</p> <p>Use both hands when operating the Motor Scrubber power tool to ensure safe operation.</p> <p>Do not allow cord to hang over the edge of a shower or objects, or touch hot surfaces.</p> <p>Don't abuse cord. Never pull Motor Scrubber by cord or yank it to disconnect from the battery.</p> |
| Disassemble | <p>Disconnect Motor Scrubber when not in use.</p> <ol style="list-style-type: none"> 1. Unplug the battery. 2. Detach scrubbing disc and handle return them to storage area. | | |
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| Battery & Charger Instructions | <p>It is necessary to charge the battery before and after each use. Charge a minimum of 20 hours to a maximum of 24 hours.</p> | <p>Electrical Shock Acid Burn-from battery corrosion</p> | <p>Do not put charger in water or other liquid. Do not use charger in wet or damp conditions (intended for indoor use only).</p> <p>Do not use the charger near sinks or tubs. Never immerse in water.</p> <p>Only charge the battery with Motor Scrubber battery charger.</p> |

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| Battery Pack Harness  | Harness is equipped with quick release buckles. Adjust the shoulder and waist straps by sliding the adjustable buckles to your personal comfort. | Back, Lifting Injury | Always use the waist strap and buckle properly for better lifting support. |
| Clean up and storage of Motor Scrubber | Keep Motor Scrubber clean for safer operations. Keep handle dry, clean and free from oil, grease and water. | Personal Injury | Unplug the charger when not in use and before cleaning or maintenance. |
| Training | Employees must have hands on training in the proper use of this piece of equipment. | Supervisor is to fill out the 'Supervisor Led Training Form' and turn in the form to UNC-CH Environment, Health and Safety for documentation of proper training. | |
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| Reviewed By | Kim Haley, Industrial Hygienist Cory Kirkland, Facilities Safety Officer | | |
| Referenced Material | Motor Scrubber Model MS 1000 Manual | | |
| Contact Info | For more information about this JSA and other JSAs, contact: <i>UNC-CH Department of Environment, Health and Safety</i> 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919)962-5507 • http://ehs.unc.edu | |  |