



**UNC**  
ENVIRONMENT,  
HEALTH & SAFETY

# Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

All UNC Shops

**JOB SAFETY ANALYSIS TOPIC:**

## Salt Spreader



Title	Work Task	Hazards	Controls
<b>Pre-Operation and Preparing for the Job</b>	<ol style="list-style-type: none"> <li>1. Pre-plan the work and assess the work area.</li> <li>2. Assess the equipment for damaged parts</li> <li>3. Check weather forecast to determine appropriate insulated clothing.</li> <li>4. Select the appropriate PPE needed to perform the job task.</li> </ol>	None	<ul style="list-style-type: none"> <li>• Administrative               <ul style="list-style-type: none"> <li>○ If equipment is damaged or broken, replace or have equipment repaired</li> </ul> </li> <li>• PPE               <ul style="list-style-type: none"> <li>○ Warm clothing including hats, thermal gloves, jackets, scarves</li> <li>○ Anti-slip, thermal insulated boots</li> </ul> </li> </ul>
<b>Site Preparation</b>	<ol style="list-style-type: none"> <li>5. Before spreading salt ensure the snow has been plowed or shoveled in all areas.</li> </ol>	<ul style="list-style-type: none"> <li>• Ergonomics (Strain)</li> <li>• Slip, Trip, Fall (especially on icy areas)</li> <li>• Temperature Extreme</li> <li>• Weather Phenomena</li> </ul>	<ul style="list-style-type: none"> <li>• Administrative               <ul style="list-style-type: none"> <li>○ Training on snow removal and clean up</li> <li>○ Rotate employees in extreme weather conditions; rotated employees should rest in a warm area like a truck or in a building</li> </ul> </li> <li>• PPE               <ul style="list-style-type: none"> <li>○ Same as above</li> </ul> </li> </ul>
<b>Salting the road/walkway</b>	<ol style="list-style-type: none"> <li>6. Use a scoop to fill salt <math>\frac{3}{4}</math> to the top of the spreader</li> <li>7. Salt road/walkway slowly and evenly across areas that will likely ice or have already iced</li> </ol>	<ul style="list-style-type: none"> <li>• Ergonomics (Strain)</li> <li>• Slip, Trip, Fall (especially on icy areas)</li> <li>• Temperature Extreme</li> <li>• Weather Phenomena</li> </ul>	<ul style="list-style-type: none"> <li>• Administrative               <ul style="list-style-type: none"> <li>○ If salt chunks get stuck in the spreader use a shovel or a pole to break up chunks</li> <li>○ Training on proper lifting techniques</li> <li>○ Rotate employees in extreme weather conditions; rotated employees should rest in a warm area like a truck or in a building</li> </ul> </li> <li>• PPE               <ul style="list-style-type: none"> <li>○ Same as above</li> <li>○ Back brace</li> </ul> </li> </ul>
<b>Clean up</b>	<ol style="list-style-type: none"> <li>8. Put excess salt back into storage</li> <li>9. Wash spreader with water and allow to dry before covering or putting</li> </ol>	<ul style="list-style-type: none"> <li>• Ergonomics (Strain)</li> <li>• Slip, Trip, Fall (especially on icy areas)</li> </ul>	<ul style="list-style-type: none"> <li>• Administrative               <ul style="list-style-type: none"> <li>○ Training on proper lifting techniques</li> </ul> </li> <li>• PPE</li> </ul>

	back into storage	<ul style="list-style-type: none"> <li>• Temperature Extreme</li> <li>• Weather Phenomena</li> </ul>	○ Same as above
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<b>Training</b>	Employees must receive training on this JSA, PPE, and extreme weather conditions Some trainings can be found on EHS website at <a href="https://ehs.unc.edu/training/self-study/">https://ehs.unc.edu/training/self-study/</a>	Supervisor is responsible for ensuring the employee reviews the JSA and any EHS guidelines.	
<b>Created</b>	Taylor Moore, Industrial Hygienist, February 21, 2020		
<b>Referenced Material</b>	EHS Website;		
<b>Contact Info</b>	For more information about this JSA and other JSAs, contact: <i>Department of Environment, Health and Safety</i> UNC-CH, 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 <a href="https://ehs.unc.edu/">https://ehs.unc.edu/</a>		