

# VSC FIRE & SECURITY PROJECT HAZARD ANALYSIS

<p><b>VSC Fire &amp; Security (VSCFS) has prepared this Project Hazard Analysis in conjunction with a Project Specific Safety Plan.</b></p> <p><b>Together these documents identify known, predictable and anticipated hazards associated with this scope of work. They also list the means and methods used to remove these hazards from the workers</b></p> <p style="text-align: center;"><b>Scope of Work:</b></p> <p><b>VSCFS has been contracted by [REDACTED] CONSTRUCTION to install / retro fit a new fire sprinkler system for a commercial building.</b></p> <p><b>Site conditions: Retail stores. Shopping plaza</b></p> <p><i>In the case of any events, conditions or change in scope of work that may affect the implementation or changes to this JHA, all work will stop and the VSC Supervisor will take immediate corrective actions.</i></p>	<b>Date:</b>	<b>VSCF&amp;S Project Number:</b>
	<b>Project:</b>	
	<b>General Contractor:</b>	
	<b>Subcontractor:</b>	
	<p><b>Project supervisor:</b> _____</p> <p><b>Site foreman:</b> _____</p> <p><b>Safety Manager:</b></p> <p style="text-align: center;"><b>Approved non-emergency medical clinic for this project:</b>  <span style="background-color: yellow; padding: 2px;"><b>ENTER CLINC INFORMATION HERE</b></span></p>	
<b>VSC Technicians:</b>		

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Identify, Prioritize, and List the Work Activities/Work steps	Identify & Analyze the Hazards for each Activity/Work step	Identify Hazard Controls for each Activity/Work step
<p>Common hazards to be anticipated in all work activities.</p> <p>Inspect all tools &amp; equipment for safe working condition.</p> <p>drilling, cutting metal</p>	<ul style="list-style-type: none"> <li>A. Slips, trips and falls</li> <li>B. Falling objects</li> <li>C. Insufficient lighting</li> <li>D. Material Handling</li> <li>E. Pinch points, contusions, lacerations, and abrasions</li> <li>F. Flying or projected debris/foreign body in the eye</li> </ul>	<ul style="list-style-type: none"> <li>A. Visually survey the area prior to and during entry and identify possible hazards. Remove/re-route obstacles/hazardous conditions from pathway.</li> <li>B. Wear adequate work clothing including approved safety toe shoes.</li> <li>C. Ensure lighting is adequate (use of portable lighting) prior to the start of work.</li> <li>D. Use proper lifting techniques (i.e., positioning/assistance).</li> <li>E. Be aware of potential pinch points and handling operation techniques to prevent occurrence. Ensure proper guards are in place prior to use. Wear cut resistant gloves. Beware of pinch points when installing pipe couplings.</li> <li>F. Safety glasses with side-shields, protective goggles, or a face shield as appropriate will be worn</li> </ul>

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<p>Unload piping from truck and distribute materials to predestinated locations.</p> <p>Material handling <i>Coordinate all material handling with other contractors within work zones.</i></p>	<p>A. Back Injury. Hand injury</p> <p>B. Trip hazards &amp; obstructed access.</p> <p>C. Overhead hazards from material handling.</p>	<p>A. Use proper lifting techniques. Request assistance from co-worker. Only carry one section of pipe at a time. Use fork lift or mechanical device when handling heavy material. Use proper fitting gloves.</p> <p>B. Remove any trip hazard within work zones and access ways.</p>
<p>Unload equipment used for installation, including power machine to predestinated locations...</p> <p><i>Inspect all tools as part of the tool selection and always prior to use for safe operation.</i></p>	<p>A. Back injury &amp; bodily strains</p> <p>B. Pinch points. (hands)</p>	<p>A. Take adequate breaks to rest your back. Bend knees to gain lift. (Lift techniques). Request assistance from co-worker.</p> <p>B. Wear proper fitting gloves. Avoid grabbing equipment where hand may be pinched in moving parts.</p>
<p><b><i>Deactivation of existing fire protection system for occupied active retail stores adjacent to work site.</i></b></p> <p>Install hangers used for piping system. <b><i>Anchors for pipe hanger will be attached to lower metal sections of overhead concrete flooring.</i></b></p> <p>Folding Ladders &amp; Aerial lifts (MEWP) will be used for overhead installation. <i>equipment will be inspected daily</i></p>	<p style="text-align: center;"><b><i>Fire hazard and life safety</i></b></p> <p>A. Flying Objects.</p> <p>B. Fall Hazard &amp; struck-by</p>	<p><b><i>VSC Supervisor must verify Summit Construction has acknowledge fire department notification and fire watch as been established. Supervisor must document the VSC daily shut down authorization. (see attached form)</i></b></p> <p>A. Use eye protection – safety glass. When drilling overhead mandatory usage of mono-goggles or face shield.</p> <p>B. Only authorized VSC MEWP operators on scissor lift. Full body harness will be</p>

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<p>Installation continued...</p> <p>Mobil elevated work platforms (MEWP) &amp; ladders</p> <p>Installation of pipe and components continued...</p>	<p>cont. Fall &amp; Struck-by</p> <p>D. Ladders safety</p>	<p>worn at all times with appropriate lanyard and anchor points. Use ladder of appropriate height and inspect for damage. MEWP will have proper hand rails and chain in place. Red danger tape will be set up below work zones. Bumpers will be positioned when near open ends of floor and holes if needed</p> <p>One section of pipe at a time will be lifted overhead by using the approved uni-struct support brackets attached to hand rails. Operator must inspect pipe support brackets for loose or damaged pieces daily. Use Pre-task plan.</p> <p>Loading lifts with material will be done in lowered position. Do not manually lift pipe up to lift at working height.</p> <p>D. Ensure you have ladders of appropriate height. Face forward with the spreaders fully open. Full body harness will be worn while on ladder. Inspection of ladder will follow guide lines established in VSC site safety plan.</p> <p>Do not leave tools or item unattended on ladder.</p> <p>When working near open ends of floor face ladder toward the open end to reduce tip-over fall hazard</p>
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electrical tools, equipment and cords	A. Electrical Hazard	<p>A. 100% usage of proper GFCI. Inspect tools daily. Extension cords will not hang down from scissor lifts. Use outlet in platform for power source.</p> <p>Cord trees or plastic ties for hanging cords.</p> <p>Tools &amp; equipment inspected before each work day.</p>
Lift and place pipe in hangers.	<p>A. Back &amp; shoulder Injury. (Lifting twisting and maneuvering overhead. <i>Is this a two-person task?</i>)</p> <p>B. Fall Hazard. <i>Overhead fall hazard from dropping pipe too?</i></p>	<p>A. Rest as needed to avoid strain from overexertion or repetitive motion. Ensure ladder is of appropriate height to reach hangers. Second worker will assist in handing material to technician on ladder.</p> <p>B. Working at heights greater than 6 feet, use of fall protection equipment required. <i>Tie-off in lift? Secure or hold pipe on lift rails?</i></p>
Coupling of pipe together	<p>A. Fall Hazard</p> <p>B. Contusion / Pinch Point</p>	<p>A. Working at heights greater than 6 feet, use of fall protection equipment required with appropriate lanyard</p> <p>B. Follow Manufacturer's guidelines for installation of couplings.</p>
Install threaded pipe with sprinklers	A. Contusion / Pinch points	A. Care must be used when installing pipe with wrenches. Cheater bars are forbidden and never to be used.

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<p>Other conditions or task identified in daily pre-task plans</p>		<p><i>Housekeeping of debris i.e. Cut pipe, empty boxes, trash, etc... Will be maintained through the work day.</i></p>
<p>Overhead installation of metal sprinkler pipe.</p> <p>Cutting and grooving pipe for coupling fitting connections.</p> <p><i>Fabrication of pipe and fittings will be primarily performed at floor level with pipe vise. These Overhead tasks are performed only when necessary.</i></p>	<p>A. <i>Overhead fall hazards of material</i></p> <p>B. <i>Potential for dropped cut sections of pipe and tools.</i></p> <p>C. <i>Falling objects</i></p> <p>D. <i>Insufficient lighting</i></p> <p><i>Reminder: as interior and exterior walls are constructed as project progresses lighting in overhead areas may become limited.</i></p>	<p>A. MEWP will be the primary means for lifting materials overhead and elevated work platform. This task will not be performed from ladders. Daily inspection of equipment performed by each operator and barricade of red danger tape set beneath each work zone.</p> <p>B. Only individual sections of pipe and materials per connection of pipe. Do not overload lifts with excessive materials. Operators will comply with previously approved pipe support structure (Unistrut assembly) when lifting pipe in place.</p> <p>C. Each cut &amp; groove procedure will be done as a two-man task. End sections of pipe held by second technician to prevent dropped cut pieces of pipe. Two technicians will perform task of attaching manual groover to pipe.</p> <p>Four blade manual pipe cutting will also be a two-man task.</p> <p>D. Use proper lighting as needed.</p>

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	<u>Print Name</u>	<u>Signature</u>	<u>Date /Time</u>
Supervisor Name:	_____	_____	_____
Employee Name(s):	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

All accidents with or without injury must be reported immediately.

Any site OSHA visits must be reported immediately to Risk Management.