

Mammoth Mountain Ski Area  
Job Hazard Analysis Worksheet

Department: Host 005	Name of Analyst: Anna Allen and Cheri Kuhlins	Date: August 15, 2017
Job/Task Description	Hazards Identified	Hazards / Mitigations / Safe Work Practices
Physical Conditioning	Injuries	<ul style="list-style-type: none"> <li>• Suggestions for employees and volunteers to partake in some kind of fitness programs</li> <li>• Minimum requirements for participation in skiing or snowboarding programs include intermediate or stronger level skills, as determined through assessment testing</li> </ul>
Working Outside	<p>Cold Temperatures</p> <p>Blowing Snow</p> <p>Sun Exposure</p> <p>Summer Heat Exposure</p> <p>Be prepared for weather exposure</p>	<ul style="list-style-type: none"> <li>• <b>PPE</b> – Use appropriate clothing, depending on temperatures</li> <li>• Use provided hand and foot warmers if needed</li> <li>• Train employees on dangers of hypothermia and frostbite</li> <li>• Train employees on proper hydration techniques for cold weather / higher altitudes</li> <li>• Provide Host assignments prior to arrival to enable appropriate choice of clothing</li> <li>• <b>PPE</b> – Use of appropriate eye protection, such as goggles or glasses, are required</li> <li>• <b>PPE</b> – Sunscreen provided and recommended</li> <li>• Use appropriate eye protection, winter and summer</li> <li>• Train employees on proper hydration techniques for summer weather / higher altitudes</li> <li>• Train employees to recognize signs of heat exposure and illness</li> <li>• Provide access to water when working in open, hot areas</li> <li>• Utilize shade whenever possible</li> <li>• Take breaks to avoid long stretches without hydration</li> <li>• <b>PPE</b> – Recommend use of full brim hats for shade</li> <li>• Review weather forecasts posted in office daily</li> </ul>

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Walking on Slippery Surfaces Both in Street Shoes or Ski or Snowboard Boots	Slip, Trip and Fall	<ul style="list-style-type: none"> <li>• Create awareness for diverse surfaces and surroundings</li> <li>• Assign Hosts prior to arrival, allowing appropriate shoes</li> <li>• <b>PPE</b> – Traction devices recommended when in the parking lots; <b>provided at all locations</b></li> <li>• Use caution and notify supervisors if entrances and lobbies are building up with ice</li> <li>• Supervisors, Mountain Representatives and/or maintenance crews use snowmelt and chipping to correct problem. Train employees when walking on different surfaces.</li> <li>• Remove traction devices when entering interior tiled floors</li> <li>• Only trained employees may enter the kitchen when preparing hot chocolate and never in ski boots!</li> </ul>
Walking on Uneven Surfaces such as Hiking Trails, Bike Trails, Learning Stations	Slip, Trip and Fall	<ul style="list-style-type: none"> <li>• Create awareness for diverse surfaces and surroundings</li> <li>• Wear proper footwear, including closed toe shoes that provide appropriate support at all times</li> <li>• Suggest hiking/walking poles while working at learning stations or while leading hikes, if needed for additional stability</li> <li>• Physical ability of individual employees and volunteers must match the needs of assignments</li> </ul>
Lodge Hosting in Lobby Areas	Crowded Conditions	<ul style="list-style-type: none"> <li>• Instruct guests to carry equipment in the appropriate upright manner, when needed during crowded conditions</li> <li>• Stress awareness in high traffic areas during busy times</li> <li>• Stand in open, wide areas only, to eliminate additional traffic flow problems</li> <li>• Be aware of ski poles and equipment sliding on the walls</li> <li>• Avoid areas where equipment can fall and suggest ways to place equipment so it doesn't fall</li> <li>• Instruct guests to use ski and snowboard racks and/or wall mounts</li> <li>• Do not stop suddenly with people around you</li> </ul>

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<p>Lodge Hosting in Lobby Areas (continued)</p> <p>Greeting Guests in Parking Lots</p>	<p>Line Webbing Flipping</p> <p>Collisions with moving objects/vehicles or guests</p> <p>Slip, Trip and Fall</p>	<ul style="list-style-type: none"> <li>• Do not allow guests to cut under line webbing</li> <li>• If lines are short, allow guests to walk straight through to the front of the line to avoid them ducking under lines</li>   <li>• Train and supervise staff on parking lot safety</li> <li>• <b>Always work facing traffic</b></li> <li>• Potential traffic moving the wrong way means looking in both directions</li> <li>• <b>Do not stand in front or behind vehicles while directing, stand to the side</b></li> <li>• <b>Be aware of early morning sun blinding driver's vision</b></li>   <li>• Be fully prepared for assigned tasks</li> <li>• Refer to details on Slip, Trip and Fall under Walking on Slippery Surfaces</li> </ul>

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Lifting – <ul style="list-style-type: none"> <li>• Equipment</li> <li>• Guests</li> <li>• Hot Chocolate Cambros</li> <li>• Boxes</li> </ul>	Back Injury Muscle Strains Crushing Injury Lacerations and abrasions (continued)	<ul style="list-style-type: none"> <li>• Avoid lifting whenever possible – ask guests to assist with equipment placement into wagons; request guests remove equipment on the slopes so they may assist when standing</li> <li>• Train Ski Hosts with techniques to teach guests how to get up from a fall</li> <li>• When filling Cambros for hot chocolate, do not fill more than 4/5 container</li> <li>• Always use more than one person to lift filled Cambros</li> <li>• Use the following safe lifting procedures when it is necessary to lift objects –               <ul style="list-style-type: none"> <li>○ Move close to the object you are going to lift</li> <li>○ Position your feet in a forward/backward stride, with one foot at the side of the object</li> <li>○ Bend your knees and lower body, keeping your back straight and as nearly upright as possible</li> <li>○ Place your hands under the object, wrap your arms around it, or grasp the handles</li> <li>○ Draw the object close to your body</li> <li>○ Lift by slowly straightening your legs and keeping the object's weight as much as possible over your legs</li> <li>○ Pick the object up facing the direction you are going to go, to avoid twisting your knees or back</li> <li>○ If object is too heavy, ask for assistance from your co-workers</li> </ul> </li> <li>• Do not lift objects over your head when avoidable; use a step stool or ladder when possible</li> <li>• Always set object down in a controlled manner and avoid twisting your knees and back; never drop or throw the object</li> <li>• <b>PPE</b> – Work gloves recommended when lifting and moving objects.</li> </ul>

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Picking up Trash	Collisions with guests	<ul style="list-style-type: none"> <li>• Be aware of your surroundings before stooping to pick up trash.</li> <li>• Be aware of crowded conditions; do not stop suddenly with people around you</li> </ul>
Cleaning Eleven53 Objects	Potential Hazardous Material	<ul style="list-style-type: none"> <li>• <b>PPE</b> – Use provided rubber gloves when unsure of trash content</li> <li>• Wash hands with soap and water frequently after handling trash</li> </ul>
Cleaning Eleven53 Objects	Use of Approved Cleaning Material	<ul style="list-style-type: none"> <li>• Know all products used to clean screens, tables and floors and use as directed</li> <li>• Keep “Kinetic Sand” from being tracked around</li> </ul>
Cleaning Eleven53 Objects	Water spills	<ul style="list-style-type: none"> <li>• Keep geology display from being excessively splashed by filling container only partially</li> </ul>
Crowd management at Eleven53	Weather closures	<ul style="list-style-type: none"> <li>• Maintain communication with either Ski Patrol or Gondola Crew whenever weather might close Top Station</li> <li>• Keep guests calm in the event of sudden closures; explain use of snowcat, trucks or bus for transportation off the mountain</li> </ul>

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Skiing/Riding	Injury Due to Equipment Failure	<ul style="list-style-type: none"> <li>• Train employees on proper condition of ski/snowboard equipment</li> <li>• Utilize trained personnel to ensure equipment fulfills all safety standards</li> <li>• Create a supervisor checklist to confirm employees have performed equipment maintenance</li> </ul>
	Fall on Snow Causing Injury	<ul style="list-style-type: none"> <li>• Train proper skiing/riding techniques for all-mountain awareness and judgment</li> <li>• Always ski/ride following the Responsibility Code</li> <li>• Encourage employees to wear helmets</li> <li>• Encourage pre-season conditioning</li> <li>• Train for ACL injury prevention</li> <li>• Train proper falling techniques</li> <li>• Encourage participation in lessons and/or clinics to train for proper balance and stance</li> <li>• Limit terrain accessed during work hours to appropriate terrain for individual's skill level, as determined through evaluation</li> <li>• Train for defensive skiing/riding</li> <li>• Ski/Snowboard test all new hires and Hosts with prior injuries, once medically released for ski/snowboard activity</li> </ul>
	Collisions with individuals	<ul style="list-style-type: none"> <li>• Train for awareness of surroundings and employee visibility</li> <li>• To minimize collisions, make all employees aware of areas where collision rates are higher and provide techniques to maintain safe locations to stop</li> <li>• Instruct guests and train employees to always follow the Responsibility Code</li> <li>• Be defensive, expecting guests to be out of control</li> <li>• If making a sudden change of direction, be sure to look over your shoulder and uphill to determine if you are out of other riders' way.</li> </ul>

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<p>Skiing/Riding (continued)</p> <p style="color: red;">Assisting at Accident Sites</p>	<p>Collisions with fixed and moving objects, vehicles</p> <p>Tree well immersion</p> <p>Caught in an avalanche or slide</p> <p>Crowded Conditions</p>	<ul style="list-style-type: none"> <li>• Train for awareness of surroundings and employee visibility</li> <li>• To minimize collisions, make all employees aware of areas where collision rates are higher and provide techniques to maintain safe locations to stop</li> <li>• Instruct guests and train employees to always follow the Responsibility Code</li> <li>• Be defensive, expecting guests to be out of control</li> <li>• If making a sudden change of direction, be sure to look over your shoulder and uphill to determine if you are out of other riders' way.</li> <li>• Train proper skiing/riding techniques for all-mountain awareness and judgment</li> <li>• Train regarding on-slope vehicle usage and awareness</li> <li>• Communicate designated routes</li>   <li>• Train to identify and understand tree well immersion issues and avoidance techniques</li> <li>• Recommend skiing/riding with a partner on low visibility days</li>   <li>• Train employees on avalanche/slide awareness and avalanche prevention/escape measures</li> <li>• Identify and communicate avalanche prone areas</li>   <li>• <b style="color: red;">PPE – Always use appropriate protection when assisting with any potential bodily fluid exposure</b></li> <li>• Always stand on the slope to look uphill when providing crowd control</li> <li>• Stand on slopes with edges well anchored to avoid sliding</li> <li>• Place skis in a crossed manner at least 15 feet above accident site; stand below skis</li> <li>• Anchor snowboards to avoid them from sliding unheeded down the slope</li> </ul>

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Assisting Guests with Equipment	Pinch or laceration  Collisions with individuals  Recovering from falls	<ul style="list-style-type: none"> <li>• While cocking bindings open, be sure fingers are clear of mechanism</li> <li>• <b>PPE</b> – While holding skis or boards, be sure to protect your hands with gloves, especially when it is cold.</li> <li>• Be sure you are in a highly visible location to prevent collisions from other guests</li> <li>• Train employees on how to create a safe platform in soft snow or on hard packed conditions</li> </ul>
Riding Lifts	Improper Loads and Unloads	<ul style="list-style-type: none"> <li>• Train proper loading, unloading, riding techniques</li> <li>• Train lift riding protocols to prevent falls from lifts</li> </ul>
Handling Injured Individuals	Exposure to Biohazards	<ul style="list-style-type: none"> <li>• Train employees as necessary on blood borne pathogens, enforce use of universal precautions</li> <li>• Utilize appropriate disposal containers in Ski Patrol offices</li> </ul>

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Snowmobile Usage

Injuries related to collisions  
with objects or individuals

Back strain

- **PPE – DOT approved helmets are required by all drivers and passengers along with appropriate eye protection, gloves and high visibility vest**
- Train employees regarding operation/safety, including training with manufacturer's manual
- Train employees regarding recommended/designated on-mountain routes
- Train employees regarding changing snow conditions
- Require flags for maximum awareness
- Never exceed 25 mph
- Only transport one guest on a snowmobile unless it is a child of less than 4' and/or 80 pounds; a parent, if available, can accompany such a child.
- Limit employees to driving only if fully certified
  
- Call for help through Mountain Operations when snowmobile becomes trapped in deep snow

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Assisting Ski Patrol with Hill Safety	Collisions with guests	<ul style="list-style-type: none"> <li>• Train with Ski Patrol employees on best locations for safe observations</li> <li>• Always face uphill when stopped to control potentially unsafe areas</li> </ul>
Mascot positions	Irate guests	<ul style="list-style-type: none"> <li>• Create and train employees on proper protocol when dealing with irate guests</li> </ul>
	Overheating, Neck Strain	<ul style="list-style-type: none"> <li>• <b>PPE – Have cooling vests and ice packs available and ready for use</b></li> <li>• Costume is worn only by trained, appropriately sized employees</li> <li>• Maintain established break schedule to rehydrate and rest neck muscles</li> <li>• Maintain internal fan, keeping additional charged batteries available at all times</li> <li>• Utilize equipment to keep sweat from dripping onto face while in costume (head bands, bandanas or hat liners)</li> </ul>
	Limited visibility	<ul style="list-style-type: none"> <li>• Provide training and additional trained personnel to guide mascots while either walking, skiing/snowboarding <b>or bicycle riding</b></li> <li>• <b>Train personnel on the use of two-way radios</b></li> <li>• Train personnel on safe skiing/snowboarding <b>or bicycle riding</b> practices while in costume</li> <li>• Follow all rules of the Responsibility Code</li> <li>• Train Lift Operators to insure mascots are never loaded with a guest(s) on a lift</li> </ul>
	Overzealous guests	<ul style="list-style-type: none"> <li>• Always follow protocol to utilize guide</li> <li>• Listen carefully to prepare yourself for guest interactions</li> </ul>

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Guiding Mascots	<p>Crowded conditions</p> <p>Overzealous or frightened guests</p>	<ul style="list-style-type: none"> <li>• Create protocol and training for guides to understand how to direct mascots in a safe manner</li> <li>• <b>Train personnel on the use of two-way radios</b></li> <li>• Maintain appropriate distance both with Mascot and guests</li> <li>• Always manage position as a primary position, forsaking most other Host responsibilities</li> <li>• Be aware of guests behind Mascots, keeping them safe from overzealous or difficulties rising around the Mascot</li> <li>• When walking with Mascot, lead them to clear space and make guests aware of approach</li> <li>• When skiing or riding with Mascot, follow within <b>10 – 15'</b>, unless in an unusually crowded area where it might be necessary to lead.</li> <li>• Be aware of children who might be afraid of Mascot and move away from them as soon as possible</li> <li>• Follow established schedule for breaks</li> </ul>
Housekeeping	<p>Cleaning fluids</p> <p>Exposure to hazardous waste</p> <p>Hanta Virus, TBRF and Rabies exposure</p>	<ul style="list-style-type: none"> <li>• Be sure all cleaning supplies have their labels attached to the bottles</li> <li>• Use only as directed</li> <li>• <b>Train employees on identifying hazardous waste</b></li> <li>• Train employees on how to clean and dispose of hazardous waste</li> <li>• Train employees on how to clean areas that could have Hanta Virus exposure</li> <li>• Call for assistance from Housekeeping when unsure of technique or unable to procure appropriate supplies</li> </ul>