## Job Hazard Analysis (JHA) (References-FSH 6709.11 and -12)

| 1. WORK PROJECT/ACTIVITY                                  |   | 2. LOCAT                     | ION  | 3. UNIT  |  |  |
|---|---|------------------------------|--|--|--|--|
| Trail Maintenance Pacific                                 |   | ic Crest NST and side trails | Pacific Crest National Scenic Trail  |  |  |  |
| 4. NAME OF ANALYST 5. JOB TIT                             |   | <u>TLE</u>                   | 6. DATE PREPARED   |  |  |  |
| Beth Boyst (PCT Program Manager) and PCTA                 |   |                              |  | July 31, 2018  |  |  |
| 7. TASKS/PROCEDURES                                       | 8. HAZARDS  |                              | 9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE   |  |  |  |
| Create an Inclusive and<br>Respectful Work<br>Environment | Bullying, harrassment, disres communication                       | pectful                      | Strive to create a safe crew environment where all members are repected, valued and different perspectives are heard. If you are subjected to or witness harassment or disrespectful communication in the workplace you are encouraged to inform the individual directly that the conduct is unwelcome and must stop or report the behaviour to a crew leader.                               |  |  |  |
| Communication   | Devices   |                              | Utilize cellular phones, satellite phones and/or InReach devices. Be aware that cell phones do not work along many sections of the PCT. Know the location of the nearest working landline and, if possible, the nearest location for cell phone service.   |  |  |  |
|   | Radios  |                              | Have agency compatable radios on crew. Ensure radios have properly programmed frequencies, are in working order, and have an extra set of batteries before leaving on the trip. Know local repeaters and best locations to use radios during emergency. Know who is available to hear you call on the radio, as agency staffing may be few or none after regular work hours and on weekends. |  |  |  |
|   | Check-in/Check-out  |                              | Check-in before project and check-out after project with desginated tracker, which may be PCTA Regional Representative or federal agency staff.  |  |  |  |
| Emergency Response  | Trailhead Communication Plan (TCP)<br>Emergency Action Plan (EAP) |                              | Ensure plans are in place prior to beginning of project. Share TCP with PCTA Regional Rep, agency staff, and tracker. If EAP is activated due to incident, contact PCTA and agency staff immediately.  |  |  |  |
| Personal Protective<br>Equipment                          |   |                              | soles with firm, flexible support. Ey protection and work gloves must be   | s, hard hats, boots with slip-resistant heels and ye protection (compliant with ANSI Z-87.1), ear se worn as appropriate for the specific tool. Any ave side shields. Carry compliant first aid kit.   |  |  |
| Chain and Crosscut<br>Saw Operations                      |   |                              | Only qualified sawyers may operate their current certification. Sawyers a Forest Service-approved Nationa with PPE requirements found in the Operations Guide (FSH 6709 Ch.)   | te chain and/or crosscut saws within the scope of must follow safety and cutting techiques taught in ally Recognized Sawyer Training Course. Comply the Forest Service Health & Safety Handbook, Saw 22.48c). All sawyers need to be certified in Basic in or near felling situations ensure an area 2 1/2 |  |  |
| Vehicle Operation   | Fatigue<br>Narrow, Rough Roads<br>Poor Visibility                 |                              | Drive defensively and slowly. Always wear seatbelts and turn lights on. Obey speed limits and reduce speed as appropriate for road conditions. Use spotter when backing. Use parking brake, chock blocks, and do not leave vehicle while it is running. Stop and rest if fatigued; refer to pages 20-72 in the H&SC handbook.  |  |  |  |

| Getting Lost  Carry a map. Use GPS, if available. Drivers should know where the des point is before getting in the vehicle. Maintain visual contact with another traveling in a group.  Dehydration Contaminated Water  Water per day when the temperature is above 80 degrees. Increase fluid hotter days or during extremely strenuous activity. Observe team member of dehydration. Review map or ask crew leader about water sources, ker mind the seasonality of the water source. Use proper water filtration or trechniques when drinking from a non-municipal water source.  Falling Objects Falling Objects Overhead hazards Snags Be aware of your surroundings and watch where you step. Look for over limbs, overhead dead hung up limbs (widow makers), root sprung trees a limbs, overhead dead hung up limbs (widow makers), root sprung trees a sewarchful of loose limbs on trees. Be careful of dead trees. Avoid work unsafe site. Be aware of water crossings, marshes, and altitude changes fording streams, use a walking stick and undo hip belt to avoid drowning fording streams, use a walking stick and undo hip belt to avoid drowning to the water sources.  Know the weather forecasts. Take appropriate gear. You can experience | vehicle if uarts of intake on ers for signs eping in eatment head dead and snags. ing at an          |
|---|--|
| Dehydration Contaminated Water  Dehydration Contaminated Water  Don't overdo it! Know your limits. Take frequent breaks. Drink up to 12 q water per day when the temperature is above 80 degrees. Increase fluid hotter days or during extremely strenuous activity. Observe team member of dehydration. Review map or ask crew leader about water sources, keep mind the seasonality of the water source. Use proper water filtration or to techniques when drinking from a non-municipal water source.  Falling Objects Overhead hazards Snags Be watchful of loose limbs on trees. Be careful of dead trees. Avoid work unsafe site. Be aware of water crossings, marshes, and altitude changes fording streams, use a walking stick and undo hip belt to avoid drowning   | intake on<br>ers for signs<br>eping in<br>eatment<br>head dead<br>and snags.<br>ing at an<br>s. When |
| Falling Objects Overhead hazards Snags Snags Trail Hazards Be aware of your surroundings and watch where you step. Look for over limbs, overhead dead hung up limbs (widow makers), root sprung trees and be watchful of loose limbs on trees. Be careful of dead trees. Avoid work unsafe site. Be aware of water crossings, marshes, and altitude changes fording streams, use a walking stick and undo hip belt to avoid drowning  | and snags.<br>ling at an<br>s. When  |
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| Weather  Know the weather forecasts. Take appropriate gear. You can experience snow, lightning, or extreme heat on the PCT. Be watchful throughout the changing weather. In the event of lightning stay out of the open, off ridge avoid water and solitary trees. If you are unprotected in a lightning storm escape, remove any metal objects from your body and crouch on a piece conductive, insulating material (i.e. a foam sleeping pad, rope, or pack). close, do not bunch, spread your group out or separate from your partne   | rain, hail,<br>day of<br>tops and<br>, with no<br>of non-<br>If lighting is                          |
| Getting Lost  Identify safe routes and local conditions. Hike in a group. Make sure visu is kept at forks in the trail. If one has to depart from the trail, advise the chiking in the dark. Designate meeting spot should someone become separated. Ensure crew has a topographic map of the work area.  | al contact   |
| Foot Damage  Wear appropriate socks and hiking boots with ankle support and traction account the terrain, the work, and the weather. Communicate before more objects.   | taking into<br>ving heavy  |
| Sun Exposure  Wear protective clothing including long sleeve shirt, long pants, full brimm hat with sunshield. Use sun block and lip balm.  | ned hard   |
| Heavy Brush  Wear protective clothing such as long sleeve shirt, long pants, hard hat, gloves, and protective eye wear. Watch for others when discarding brush brush out of sight from the trail. In heavy undergrowth, lift knees high to obstacles. Watch for spring poles.   | i. Throw<br>clear  |
| Animals  Be observant of snakes which like to live under logs and shady areas. Be aware and use appropriate food storage devices. Be aware of potential processes (cougars, bears, dogs) in the area.   | bear<br>redators   |
| Insects, Ticks, Spiders, Mosquitoes, Bees Use insect repellant. Be aware of potential for hives in brush, rock crevas hollow logs. Clothing should fit tight at the wrists, ankles and waist. Tuck tails. Search your body, especially hair and clothing, for ticks and insects regular basis. Bathe and/or change clothes after each work day.   | in shirt<br>on a   |
| Contact with Poison Oak/Ivy/Sumac  Identify crewmembers that are allergic and keep them out of work location poisonous plants are present. Educate crewmembers on plant ID. When skin contacts a poisonous plant or noxious weed, wash the area with column within 1 to 3 minutes or as soon as possible. While working in the poison environment, do not use soap and/or hot water because they can remove   | ever the<br>d water<br>ous plant   |

|                      | natural protective oils from your skin. Upon returnining from the field, use rubbing alcohol to cleanse contacted skin. Wear gloves when pulling weeds.  |
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| Hikers               | Inform crew members when you see hikers on the trail. Work stops until the hikers clear the work area. If a potential hazard exists, crew members can stand watch at safe distances and stop hikers until the hazard is cleared. Ensure hikers have a clear path. Communicate the clear path to hikers. Place tools off the trail in a centralized location. Keep shields on sharp edges when tool is not in use.  |
| Stock                | Inform everyone when stock approaches. Talk to the rider to make contact and receive direction. Work stops until the stock has passed the work site. Stand off the trail on the downhill side. Place tools a safe distance away from the trail. Do not make sudden movements or loud noises. It may be helpful to take your hard hat off until animals pass. Listen and look for approaching stock. Remain calm and back away if animals become unruly.  |
| Carrying Tools       | Carry tools safely as instructed by crew leader. Carry tools on the downhill side. Carry sharpened edge of tool downward away from your body. Be aware of others around you. Do not carry tools on your shoulder except rock bar, pole saw or crosscut saw. Maintain a safe walking distance between people (10 feet minimum). Always have sheaths on tools and carry them on the downhill side of the trail. The person carrying the crosscut saw, rock bar, or pole saw should walk last.  |
| Tool Use             | Properly maintain and care for tools. Carry tool with scabbard on. Look around for others and hazards before swinging tools. Have firm footing and be balanced when swinging. Never throw a tool. When not in use, shield any sharp edges. Limb and peel logs on the opposite side of you. Keep tools sharp. Wear gloves and hard hat. Move large rocks by hand or with a lever or bar versus hitting with a tool. Maintain tight grip on tool handles. Use gentle but deliberate hoeing action. Be aware of others working around you. Do not use tools with a loose handle. Avoid working in the dark. |
| Back Injury          | Use proper lifting techniques when picking up items. Bend knees, not back. Lift straight. Stretch periodically. Work with a partner.   |
| Hand and Foot Damage | Communicate when moving large or heavy objects. Do not roll anything heavy wher people are downhill. Anticipate the roll of any loose object. Watch for limbs and stubs on rolling trees.  |

| Local/Project-Specific<br>Concerns (Write in as<br>needed, use back of<br>paper if additional space<br>is needed) |  |
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| 0. LINE OF   | FICER SIGNATURE 11. TITLE   | Forester              | 12. DATE        | 1/8/18          |                        |                            |                |
| U  | Emergency Eva   | acuation Instructions | (Reference FS   | 6H 6709.11)     |                        |                            |                |
| Work supe  | ervisors and crew members are responsible for developing and discuss he worksite.                       | ing field emergency e | vacuation proce | dures (EEP) and | alternatives in the ev | ent a person(s) becomes se | riously ill or |
| Be prepared to provide the following information:  |   |                       |                 |                 |                        |                            |                |
| a. Nature of the accident or injury (avoid using victim's name). b. Type of assistance needed, if any (ground, air, or water evacuation). c. Location of accident or injury, best access route into the worksite (road name/number), identifiable ground/air landmarks. d. Radio frequencies. e. Contact person. f. Local hazards to ground vehicles or aviation. g. Weather conditions (wind speed & direction, visibility, temperature). h. Topography. i. Number of individuals to be transported. j. Estimated weight of individuals for air/water evacuation. |   |                       |                 |                 |                        |                            |                |
| The items  | The items listed above serve only as guidelines for the development of emergency evacuation procedures. |                       |                 |                 |                        |                            |                |
| JHA and E  | Emergency Evacuation Procedures Acknowledgment  |                       |                 |                 |                        | 25                         |                |
| We, the undersigned work leader and crew members, acknowledge participation in the development of this JHA (as applicable) and accompanying emergency evacuation procedures. We have thoroughly discussed and understand the provisions of each of these documents:  |   |                       |                 |                 | <i>l</i> e have        |                            |                |
| ñ  | Signature & Date  |                       | 9-              |                 | Signature & Date       |                            |                |
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