



# Buxton Fire-Rescue

## Administrative Policy

Subject: Hazard Assessment (11)

Section/Number: Personal Protective Equipment (1)



Date Approved: September 19, 2007

*Nathan R. Schools*



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### Hazard Assessment for Personal Protective Equipment Documentation

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Nathan R. Schools, <i>EFO</i> Authorization	 Fire-Rescue Chief
	<u>June 20, 2018</u> Date

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<u>Task</u>	<u>Hazard</u>	<u>PPE Required</u>
<b><u>Interior Structural Firefighting</u></b>	<i>Respiratory, Burns, Blunt Trauma, Abrasions/Lacerations</i> Super-Heated Air  Super-Heated Gases Open Flame Carbon Monoxide Hydrogen Cyanide Chemical Exposure Fall/Collapse Smoke Oxygen deficiency	Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves Self-Contained Breathing Apparatus
<b><u>Aerial Ladder Use (During Fire)</u></b>	<i>Respiratory, Burns, Blunt Trauma, Abrasions/Lacerations</i> Fall  Roof Collapse Super-Heated Air Super-Heated Gases  Open Flame Smoke Oxygen deficiency	Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves Self-Contained Breathing Apparatus Ladder Belt w/ Lanyard Harness w/ Positioning Hook Personal Escape Belt w/ Positioning Hook
<b><u>Ground Ladder Use (During Fire)</u></b>	<i>Fall, Laceration/Abrasion</i>	Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves Self-Contained Breathing Apparatus
<b><u>Vehicle Fires</u></b>	<i>Blunt Trauma, Laceration, Crush, Chemical Exposure, Blood borne Pathogens, Explosion, Respiratory, Burns</i> Fuel/Fluid leak  Air Bags  Alternative Fuel Vehicles  Hazard due to extrication Super-Heated Air Super-Heated Gases Open Flame Smoke Oxygen deficiency	Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves  Self-Contained Breathing Apparatus Safety Glasses (when not using SCBA) Traffic Safety Vest (when not using SCBA)

*Nate R. Sle*

<u>Task</u>	<u>Hazard</u>	<u>PPE Required</u>
<p><b><u>Vehicle Accident/Extrication (W/O Fire)</u></b></p>	<p><i>Blunt Trauma, Laceration, Crush, Chemical Exposure, Blood borne Pathogens, Explosion</i>                      Fuel/Fluid leak                      Air Bags                      Alternative Fuel Vehicles                      Hazard due to extrication</p>	<p>Turnout Gear including: Helmet, Coat, Pants, and Boots                       Safety Glasses                      Traffic Safety Vest                      Extrication Gloves (during extrication)                      Nitrile Gloves (or similar) (Patient Care)</p>
<p><b><u>Vehicle Accident/Extrication (W/ Fire)</u></b></p>	<p><i>Blunt Trauma, Laceration, Crush, Chemical Exposure, Blood borne Pathogens, Explosion, Respiratory, Burns</i>                      Fuel/Fluid leak                      Air Bags                      Alternative Fuel Vehicles                      Hazard due to extrication                      Super-Heated Air                      Super-Heated Gases                      Open Flame                      Smoke                      Oxygen deficiency</p>	<p>Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves                       Self-Contained Breathing Apparatus                      Safety Glasses (when not using SCBA)                      Traffic Safety Vest (when not using SCBA)                      Extrication Gloves (during extrication)                      Nitrile Gloves (or similar) (Patient Care)</p>
<p><b><u>Woods/Grass Fires</u></b></p>	<p><i>Burns, Blunt Trauma, Abrasions/Lacerations</i>                      Super-Heated Air                      Open Flame                      Fall/Collapse                      Smoke</p>	<p>Wildland/Fire Helmet                       Steel Toed Boots or Fire Boots                      Duty pants of Jeans                      Long Sleeve shirt                      Leather Gloves</p>
<p><b><u>ATV Operations</u></b></p>	<p><i>Blunt Trauma, Submersion, Environmental</i>                      ATV Crash                      Hypo/Hyperthermia                      Failure of off road bridge/ice sheet</p>	<p>ATV Helmet                       Safety Glasses                      Gloves (weather dependent)                      Duty Pants - No shorts                       Duty Boots (if none than fire boots)</p>

*Notte + Sle*

<u>Task</u>	<u>Hazard</u>	<u>PPE Required</u>
<u>Snowmobile Operation</u>	Blunt Trauma, Submersion, Environmental ATV Crash Hypo/Hyperthermia Failure of off road bridge/ice sheet	ATV Helmet Safety Glasses Gloves (weather dependent) Duty Pants Duty Boots (if none than fire boots) Turnout Gear Pants Float Jacket Mustang/Cold Water Rescue Suit
<u>Water Rescue</u>	Submersion, Drowning, Blunt Trauma, Laceration/Abrasions Slip Trip Fall Water Submersion	Water/Ice/Rope Rescue Helmet Life Jacket Sneakers (Line Tenders) Uniform Shorts/Baiting Suit Water Rescue Rope
<u>Ice Rescue</u>	Submersion, Drowning, Blunt Trauma, Laceration/Abrasions Slip Trip Fall Water Submersion	Water/Ice/Rope Rescue Helmet Mustang/Cold Water Rescue Suit Crampons Water Rescue Rope Ice Picks Emergency Locator Beacon
<u>Rope Rescue</u>	Blunt Trauma, Laceration/Abrasions, Burns Slip Trip Fall Rope Burn	Water/Ice/Rope Rescue Helmet Rope Gloves Class 2 or 1 Harness (Low/High Angle situations) Duty Pants - No shorts
<u>Carbon Monoxide Incidents</u>	Respiratory	Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves Self-Contained Breathing Apparatus
<u>Firefighter Hand Tool Use</u>	Blunt Trauma, Laceration, Eye Injury Hands while prying/forcing Eyes if material splinters/and or tool fails	Turnout Gear including: Helmet, Hood, Coat, Pants, Boots, Gloves Safety Glasses or Helmet Shield

*Natt & Sle*

<u>Task</u>	<u>Hazard</u>	<u>PPE Required</u>
<b><u>Traffic Control</u></b>	<i>Blunt Trauma, Environmental</i> Struck by vehicle  Slip Trip Fall Hypo/Hyperthermia	Helmet Traffic Safety Vest or approved reflective Jacket ANSI Reflective Pants Reflective Gloves (Orange/Green as indicated) Gloves (weather related) Flashlight with wand Stop Slow Paddle Emergency Scene Ahead sign
<b><u>CPR</u></b>	<i>Exposure to Blood borne Pathogens</i> Blood Saliva Vomitus	CPR Pocket mask or Bag Valve Mask Nitrile Gloves (or similar)
<b><u>Airway Management/Intubation</u></b>	<i>Respiratory, Mucus Membranes, Eye</i> Droplet Exposure BBP Exposure	Nitrile Gloves Surgical Mask Surgical Mask with face shield or Goggles/ Safety Glasses
<b><u>(Medical) Suctioning</u></b>	<i>Respiratory, Mucus Membranes, Eye</i> Droplet Exposure BBP Exposure	Nitrile Gloves Surgical Mask Surgical Mask with face shield or Goggles/ Safety Glasses
<b><u>Nebulized Medication Administration</u></b>	<i>Respiratory</i> Droplet Pathogen Exposure	Surgical Mask (if Droplet Pathogen Suspected) Scott AV 3000 HT face pieces with canister particulate filters (if Airborne pathogen suspected)
<b><u>Cricothyrotomy</u></b>	<i>Respiratory, Mucus Membranes, Eye</i> Droplet Exposure BBP Exposure	Nitrile Gloves Surgical Mask Surgical Mask with face shield Goggles/ Safety Glasses
<b><u>Chest Decompression</u></b>	<i>Respiratory, Mucus Membranes, Eye</i>  Droplet Exposure BBP Exposure	Nitrile Gloves Surgical Mask Surgical Mask with face shield Goggles/ Safety Glasses
<b><u>Intravenous Catheterization</u></b> <b><u>Intraosseous Placement</u></b>	<i>Skin Mucus Membrane</i> Penetrating Injury BBP Exposure Body Fluid Exposure Used needle stick	Nitrile Gloves

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<b>Task</b>	<b>Hazard</b>	<b>PPE Required</b>
<b><u>Trauma/Wound Care</u></b>	<i>Skin Mucus Membrane Penetrating Injury BBP Exposure Body Fluid Exposure</i>	Nitrile Gloves Goggles/Safety Glasses (as needed) Gown (as needed)
<b><u>Emergency Childbirth</u></b>	<i>Skin, Mucus Membranes, Eye BBP Exposure Body Fluid Exposure</i>	Nitrile Gloves Surgical Mask Surgical Mask with face shield or Goggles/ Safety Glasses Gown
<b><u>Care/Transport of Known Airborne Pathogen infected patient (TB, Chickenpox)</u></b>	<i>Respiratory, Airborne Pathogen Exposure</i>	Scott AV 3000 HT face pieces with canister particulate filters Nitrile Gloves
<b><u>Care/Transport of Influenza Type Illness patient</u></b>	<i>Respiratory Droplet pathogen exposure Body Fluid Exposure</i>	Surgical Mask Nitrile Gloves
<b><u>Chain Saw Use (not during Structural fire)</u></b>	<i>Laceration, Blunt Trauma Cut from Saw Blunt trauma from something falling on operator</i>	Helmet Safety Glasses Leather Gloves  Chaps/Turnout Pants Steel Toed Boots or Fire Boots Ear protection
<b><u>Chain Saw/Commercial Saw Checks</u></b>	<i>Laceration Cut from Saw</i>	Safety Glasses Leather Gloves Chaps/Turnout Pants Steel Toed Boots or Fire Boots Ear protection
<b><u>Hydrant Testing</u></b>	<i>Blunt Trauma, Laceration/Abrasions Hose failure Lacerations to hands/body Water/debris in eye</i>	Fire Helmet  Leather Gloves Safety Glasses Duty Boots (if none than fire boots) Traffic Safety Vest
<b><u>Shoveling hydrants</u></b>	<i>Blunt Trauma, Laceration/Abrasions</i>	Leather Gloves

*Notte & Sles*

<p><b><u>Confined Space Rescue</u></b></p>	<p><i>Laceration, Blunt Trauma, Burn, Respiratory</i>                  Laceration from tools/equipment while assisting the rescue team                  Slip                  Trip                  Fall                  Oxygen deficiency</p>	<p>Firefighting/Rescue Helmet                  Fire/rescue gloves                  Eye protection                  Traffic Safety Vest                  Rescue Harness                  Self-Contained Breathing Apparatus                  Firefighter turnout gear (pants and boots) or specialized rescue coveralls</p>
<p><b><u>Apparatus Backing (for the spotter)</u></b></p>	<p><i>Crushing Injury, Blunt Trauma, Vehicle Accident</i></p>	<p>Traffic Safety Vest                  Flashlight</p>
<p><b><u>Ambulance Decontamination</u></b></p>	<p><i>BBP Exposure, Penetrating, Chemical Exposure</i>                  Blood/fluid contaminants                  Used needle stick                  Cleaning chemical spill</p>	<p>Nitrile Gloves (or similar)                  Gown (as appropriate)                  Safety Glasses (as appropriate)</p>
<p><b><u>Red Bag Laundering</u></b></p>	<p><i>BBP Exposure, Penetrating, Chemical Exposure</i>                  Blood/fluid contaminants                  Used needle stick</p>	<p>Nitrile Gloves (or similar)                  Gown (as appropriate)                  Safety Glasses (as appropriate)</p>
<p><b><u>Laundering Firefighting Ensemble</u></b></p>	<p><i>BBP Exposure, Chemical Exposure</i>                  Blood/fluid contaminants                  Carcinogen Contamination                  Cleaning chemical spill</p>	<p>Nitrile Gloves (or similar)                  Gown (as appropriate)                  Safety Glasses (as appropriate)</p>
<p><b><u>Generator Use</u></b></p>	<p><i>Electrocution, Carbon Monoxide Poisoning</i></p>	<p>Rubber Sole Boots                  GFCI                  Multi Gas Meter</p>

