

Job Hazard/Safety Analysis For the Electrician

INTRODUCTION

Job Hazard/Safety Analysis for the Electrician is a partial list of known task performed by the professional carpenter. We have placed known task in alphabetical order and in a table format, listing each task in a step-by-step sequence followed by the potential hazard and a recommended action or procedure.

This is by no means an exhaustive list and is subject to modification. Additional comments may be added as more information becomes available.

If you are asked to perform an occasional task, not listed with your job title, you can look up an individual task by returning to our Job Safety Analysis page and check the pull-down menu for Job Task.

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Hazard Analysis: Air Compressor

Task	Hazard	Cause	Prevention
Shutdown and Isolate Unit	Unit Activation during repair	Auto start and/or human error	Lockout/Tagout
	Noise	Equipment Operation	Use Hearing Protection
Routine Maintenance /Repair	Hand Injury	Confined work areas, sharp edges	Gloves
	Eye Injury	Residual air pressure	Goggles, safety glasses with side shields
	Electric Shock	Improper operation and maintenance	Manufacturer's instructions strictly followed, lock-out/tag-out
	Noise	Equipment Operation	Use hearing protection
Routine Operation	Noise	Equipment Operation	Use hearing protection
	Eye Injury	Blowing debris	Use safety glasses w/side shields or goggles

PPE Required:

- Goggles/Safety Glasses with side shield
- Hearing Protection
- Gloves

Hazard Analysis: Air Compressor, Portable, Electric

Task	Hazard	Cause	Prevention
Routine Maintenance /Repair	Electric Shock	Improper operation and maintenance	Unplug electrical cord and retain control of plug during repair/maintenance
Routine Operation	Noise	Equipment operation	Use hearing protection
	Trauma	Improper use, uncontrolled release of compressed air	Use appropriate nozzle for specific work activity, situational awareness
	Eye Injury	Projectiles, flying debris	Goggles or safety glasses with side shields

PPE Required:

- Goggles or Safety glasses with side shield
- Hearing Protection

Hazard Analysis: ATV 4-Wheeler

Task	Hazard	Cause	Prevention
Routine Maintenance/Repair	Hand Injury	Confined work areas, sharp edges/objects, rotating parts	Gloves, situational awareness
	Foot Injury	Equipment rolls over foot, object drops on foot	Wear safety shoes
	Trauma	Rotating parts	Situational awareness, appropriate clothing
	Muscle/Ligament Strain	Awkward working positions	Position body to avoid strains, take appropriate breaks
	Eye Injury	Flying Particles	Goggles/Safety Glasses w/side shields
	Noise	Equipment Operation	Use hearing protection
Routine Operation	Noise	Equipment Operation	Use hearing protection
	Head Injury	Fall from 4-Wheeler, accident	Wear helmet

PPE Required:

- Helmet
- Safety glasses, goggles or helmet face shield
- Gloves
- Hearing Protection
- Safety Shoes/boots protective clothing (optional)

Hazard Analysis: Battery Charger

Task	Hazard	Cause	Prevention
General Use	Foot Injury	Drop object on foot	Wear safety shoes
	Trauma (Burns)	Battery acid spills	Goggles, apron, gloves, proper battery handling procedures
	Eye Injury	Battery acid splashes	Goggles, appropriate battery handling procedures
	Electrical Shock	Improper operation and maintenance, battery condition	Lockout/tagout, manufacturer's instructions strictly followed
	Fire	Sparks, improper storage of flammables, combustibles	Appropriate placed fire extinguisher, remove all combustibles and fire hazards from machine area
	Explosion	Spark/poor ventilation, smoking, improper procedures	Adequate ventilation, no smoking, follow manufacturer's instructions

PPE Required:

- Apron
- Gloves
- Safety Shoes/Boots
- Goggles

Hazard Analysis: Bench Grinder

Task	Hazard	Cause	Prevention
General Use	Inhalation	Dust/particles generated during machine operation	Appropriate natural ventilation, disposable respirators
	Eye Injury	Projectiles	Safety glasses with side shield or appropriate safety goggles
	Trauma	Projectiles	Situational awareness, PPE, protective clothing, machine guards
	Foot Injury	Drop object on foot	Wear safety shoes
	Hand Injury	Impact, penetration, compression	Gloves, situational awareness
	Head Protection	Projectiles	Face Shield
	Fire	Heat, sparks	Appropriate placed fire extinguisher, remove all combustibles and fire hazards from grinding/buffing area
	Electrical Shock	Improper grounding, Improper operations and maintenance	Lockout/tagout, proper grounding of frame, manufacturer's instructions strictly followed

PPE Required: protective Clothing (optional)

- Goggles/Safety Glasses w/side shield
- Face Shield
- Safety Shoes/Boots disposable Respirators (optional)
- Gloves

Hazard Analysis: Chain Hoist

Task	Hazard	Cause	Prevention
General Use	Foot Injury	Drop object on foot	Wear Safety shoes
	Hand Injury	Impact, burns	Gloves, Situational awareness
	Head Protection	Swinging chain/hoisted equipment	Hard hat

PPE Required:

- Gloves
- Safety Shoes/Boots
- Hard

Hazard Analysis: Chemicals (Pouring/Handling)

Task	Hazard	Cause	Prevention
General Use	Eye Injury	Splash, fumes	Goggles
	Contact irritation, burn or absorption	Splash, skin contact	Gloves (appropriate type for chemical), apron (if necessary), long sleeves
	Inhalation	Breathing fumes	Wear respirator if needed
	Face	Splash	Wear Face Shield (if necessary)

PPE Required:

- Goggles
- Gloves protective Clothing (apron)
- Respirator (as needed)
- Face shield (if necessary)

