



FORMAL HAZARD ASSESSMENT

TITLE: Operating Powered Handheld Tools				FHA #: 003						
Positions Considered:			Assessment Team:			Date Created:		June 01, 2022		
Management Supervisor Worker			Jessica Romain Albert Funk Bryce Clarke			Revision #:		1		
						Last Revision Date:		May 23, 2023		
Tasks	Health	Safety	Hazards Associated with Task <i>Identify hazards (as applicable) presented by; operations, equipment, vehicles, materials, products, working conditions and environment.</i>	Raw Risk Rating			Controls <i>Consider the Hierarchy of Controls.</i>	Residual Risk Rating		
				Severity	Probability	Overall Risk Rating		Severity	Probability	Overall Risk Rating
Use of Powered Hand Tools		X	Cable Tangling/Kinking	1	3	3	Eng: Adm: Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, Manufacturer's Instructions PPE: Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves	1	2	2
		X	Worker injury Due to Electric Shock	2	2	4	Eng: Adm: Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP PPE: Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves	2	1	2
		X	Worker Injury Due to Broken Tools	3	2	6	Eng: Adm: Ergonomics Training, Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP PPE: Safety Eyewear, Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves	3	1	3
		X	Heavy Manual Lifting Causing Injury	2	2	4	Eng: Dolly / Mechanical assist device.	2	1	2



						Adm: Ergonomics Training, Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP PPE: Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves, Steel-Toed Boots			
	X	Force / Pressure Causing Injury	3	2	6	Eng: Adm: Ergonomics Training Program, SWP Ergonomics, Avoid Prolonged or Excessive Grasping of Tools, Work / Rest Cycle PPE: Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves, Steel-Toed Boots	2	2	4
	X	Excessive Vibration	3	2	6	Eng: Adm: Ergonomics Training Program, SWP Ergonomics, Avoid Prolonged or Excessive Grasping of Tools, Work / Rest Cycle PPE: Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves, Steel-Toed Boots	2	2	4
	X	Worker Injury Due to Slip/Trip/Fall	2	2	4	Eng: Adm: Aware of Ground Conditions, Signage, SWP, Housekeeping, Pre-Use Inspections, New Worker Orientation. PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hand Protection / Rubber Insulating Gloves and Properly Sized Leather Protectors, Electric Safety Mat and Sleeves, Steel-Toed Boots	2	1	2
	X	Awkward Posture / Body Position or Hold	2	2	4	Eng: Integrated bench and Material Rest, Clamps Adm: Ergonomics Training, Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task	2	1	2
	X	Contact with Blade	3	2	6	Eng: Machine Guards Adm: Training, Signage, SWP, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP, Proper Tool Selection, Adequate Lighting PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task	3	1	3



	X	Use of Wrong Tools for Task Causing Injury	2	3	6	<p>Eng:</p> <p>Adm: Worker Training and Competency Program, On-The-Job Training, Pre-Use Inspections, New Worker Orientation, ERP</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	2	4
	X	Congested Work Areas (Tight Spaces, Other Workers, etc.)	2	2	4	<p>Eng: Re-design of Work Areas / Stations</p> <p>Adm: Signage, SWP, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, Establishment of Exclusion Zones</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	1	2
	X	Flying Debris	3	2	6	<p>Eng: Guards, Vacuum Dust Suppression, Ventilation</p> <p>Adm: Signage, SWP Tool Operation, Safety Program, Housekeeping, Pre-Use Inspections, New Worker Orientation, Establishment of Exclusion Zones</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	3	1	3
	X	Blade Failure Causing Injury	3	3	9	<p>Eng: Machine Guards</p> <p>Adm: Pre-Use Inspection, Preventative Maintenance Program, Worker Training / Competency Program, SWP Tool Operation</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	2	4
	X	Body Part Contracting Pinch Point	3	2	6	<p>Eng: Machine Guards</p> <p>Adm: SWP Ergonomics, SWP Tool Operation, Worker Training / Competency Program, Signage, Housekeeping, Pre-Use Inspections, New Worker Orientation, Adequate Shop Lighting</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	1	2



	X	Dust (Inhalation)	3	2	6	<p>Eng: Vacuum Dust Suppression</p> <p>Adm: Fit testing for masks, Worker Training / Competency Program, SWP Tool Operation, Signage, Communication Procedures</p> <p>PPE: N-95 Mask, Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	2	4
	X	Dust (Explosive Atmosphere)	3	3	9	<p>Eng: Vacuum Dust Suppression</p> <p>Adm: No smoking shop policy, Worker Training / Competency Program, SWP Tool Operation, Signage, Communication Procedures</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	2	4
	X	Excessive Noise	3	2	6	<p>Eng:</p> <p>Adm: Regular Maintenance on Tools and Equipment, Work Rotation, Establishment of Exclusion Zones, Rubber Mats</p> <p>PPE: Wear approved safety ear plugs or muffs when operating tools or working close, Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistant Gloves as Necessary to the task</p>	2	2	4
	X	Failing Material Causing Worker Injury	3	2	6	<p>Eng: Safety Nets (where possible), Clamps</p> <p>Adm: Training, Cargo Securement Requirements, Signage, SWP, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP, Safe Manual Lifting / Carrying Techniques, Temporary Blockades to Prevent Worker Crossing</p> <p>PPE: Head Protection, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection (As the Hazard Dictates), Protective Footwear, Hand Protection / Cut Resistance or Medical Examination Gloves as Necessary to the task</p>	2	2	4



Risk Matrix

		Severity		
		1 - Minor	2 - Moderate	3 - Major
Probability	3 - Very Likely	Medium 3	High 6	Extreme 9
	2 - Unlikely	Low 2	Medium 4	High 6
	1 - Rare	Low 1	Low 2	Medium 3

Probability pertains to the extent of how likely it is for the risk to occur.

The 3 risk rating levels for this component are:

1. **Rare** – unlikely to happen or has never happened.
2. **Unlikely** – has the possibility to happen or has happened at least once.
3. **Likely** – almost sure to happen or has happened multiple times.

Severity is to determine the level of effects that the hazard could cause.

The 3 risk rating levels for this component are:

1. **Minor** – can cause injuries/illnesses requiring first aid or negligible property damage.
2. **Moderate** – can cause moderate injuries/illnesses requiring medical aid or moderate property damage.
3. **Major** – can cause irreversible injuries/illnesses or fatality or may cause serious property damage.

Overall Risk Rating

Severity x Probability = Overall Risk Rating

Low - no further action needed; proper control measures are in place.

Medium – proceed with caution and monitor at regular intervals.

High – must be reviewed and reassessed prior to work proceeding.

Extreme – work must be stopped until adequate controls have reduced hazard to an acceptable level.

