



FORMAL HAZARD ASSESSMENT

TITLE: Operating Non-Powered Handheld Tools				FHA #: 004						
Positions Considered:			Assessment Team:			Date Created:		November 4, 2022		
Management Supervisors Workers			Marissa Crawford Joshua Hill Ewan Cassidy			Revision #:				
						Last Revision Date:				
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
Pre-Operation and Selection and Use of Proper Hand Tools		X	Worker Injury Due to Defective Tools	2	2	4	Eng: Adm: Pre-Use Inspections. Preventative Maintenance Program, Manufacturer's Specifications, User Manuals, Worker Training/ Competency Program. Remove defective tools from inventory and mark for Lock Out / Tag Out. PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).	2	1	2
		X	Improper Equipment Handling Causing Injury	2	2	4	Eng: Adm: Manufacturer's Specifications, User Manuals, Worker Training/ Competency Program, New Worker Orientation PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).	2	1	2
	X		Lifting Awkward and Heavy Loads Causing Strain	2	2	4	Eng: Adm: SWP Ergonomics, Ergonomics Training Program Signage, SWP, Housekeeping, Pre-Use Inspections, New Worker Orientation, ERP, Two-Worker Carry. Safe Lifting Procedures. SWP Ergonomics.	2	1	2



							PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).			
	X	Clutter in Warehouse Resulting in Trips and Falls	2	2	4		Eng: Shelving units for equipment storage and organization. Adm: Housekeeping, Pre-Use Inspections, New Worker Orientation. PPE: Protective Footwear, Hand Protection / Gloves (as required).	2	1	2
Transporting Hand Tools to and From Worksite	X	Dropped Object Causing Worker Injury	3	2	6		Eng: Barricade zones below higher work levels to prevent personnel from walking into the line of fire of a dropped object. Toe boards. Netting. Adm: Safe Lifting Procedures. Cargo Securement. Signage and/ or ground person. Tool tethers or mesh. Housekeeping. Snow, ice and foreign object removal. Inspections. Worker Training / Competency Program. New Worker Orientation. Use of Hand Tool Lanyards. PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).	3	1	3
	X	Dropped Object Causing Damage to Equipment	3	2	6		Eng: Barricade zones below higher work levels to prevent personnel from walking into the line of fire of a dropped object. Toe boards. Netting. Adm: Safe Lifting Procedures. Cargo Securement. Establish active working zones and restrict access to pathways/walkways below work (flagging, tagging, signage, ground person, netting). Tool tethers or mesh. Housekeeping. Snow, ice, and foreign object removal. Inspections. Worker Training / Competency Program. New Worker Orientation. Use of Hand Tool Lanyards. PPE:	3	1	3
	X	Exertion Causing Fatigue	2	2	4		Eng: Dolly Use / Mechanical Assists Adm: Adequate Amounts of Rest, Stretch and Take Frequent Breaks, Work / Rest Cycle, Job Rotation, SWP Ergonomics, Ergonomics Training Program PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).	2	1	2
Operation and Use of Handheld Tools	X	Physical Injury (Crush)	3	2	6		Eng: Adm: Avoid contact with sharp edges. Ensure proper hand placement on tool is used. Pre-Use Inspection. New Worker Orientation and Training / Competency Program.	2	2	4



						<p>condition. Safe Tool Handling Procedures. New Worker Orientation and Training / Competency Program.</p> <p>PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).</p>			
	X	Improper Use / Handling of Tools Causing Pinched Hands or Fingers	3	2	6	<p>Eng:</p> <p>Adm: Pre-Use Inspection. Refer to Manufacturer's Specifications or User Manuals. Avoid contact with sharp edges. Ensure proper hand placement on tool is used. New Worker Orientation and Training / Competency Program.</p> <p>PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).</p>	2	2	4
	X	Bodily Injury due to Improper Tool Use	3	2	6	<p>Eng:</p> <p>Adm: New Worker Orientation and Training / Competency Program. Pre-Use Inspection. Refer to Manufacturer's Specifications or User Manuals. Only use the tools for their designed purpose – do not alter a tool unless the manufacturer recommends it. Avoid contact with sharp edges. Ensure proper hand placement on tool is used. ERP. Preventative Maintenance Program.</p> <p>PPE: Safety Hard Hats, Fire-Resistant Clothing with High Visibility Stripes, Safety Eyewear, Hearing Protection, Protective Footwear, Hand Protection / Gloves (as required).</p>	2	1	2



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.

