

# Job Hazard Analysis

JHA Name: Pneumatic Nailing & Stapling Guns- (Airline & Cordless)



Assessment Date: 01-15-14

Revision Date: 05-15-17

Building or Location: Faribault Campus

Department or Program: Carpentry

Description of Individual Tasks or Assignments:

Fastening or Joining Materials to Lumber Surfaces

Tools, Equipment, or Machinery Used when Performing Task:

Pneumatic Nailing & Stapling Guns, Air Lines, Air Compressors, Fasteners (e.g., Nails, Staples, etc.), Fuel Gas Cartridges (e.g., Propane, Butane, Nitrogen, etc.), Batteries

Hazard Type(s) Associated with Task or Assignment:		Check for Exposure:	Specific Hazard Exposure:	Check if Exposure Recommends or Requires a Style of PPE?
1	<b>Impact</b> <u>Example:</u> Person(s) can strike an object, or be struck by a moving or flying/falling object (e.g., fragments, chips, particles, sand, dirt/debris).	X	Potential exposure to flying fragments and fasteners generated from firing pneumatic nailing & stapling guns (e.g., severe injury to body part/system, and danger to bystanders)	X
2	<b>Penetration or Cut</b> <u>Example:</u> Person(s) can strike an object, be struck by an object, or fall upon an object or tool that would cut or otherwise break the skin.	X	Same as "Impact Hazard Exposure."	X
3	<b>Crush or Pinch</b> <u>Example:</u> An object(s) or equipment/machine may crush or pinch a body or body part			
4	<b>Chemical or Harmful Dust</b> <u>Example:</u> Exposure to chemicals (i.e., hazardous substances and harmful physical agents), infectious agents from spills, splashing, physical contact, and/or exposure to dusts, vapors, fumes, or gases that could cause illness, irritation, burns, asphyxiation, breathing/vision difficulty, sensitization, infection, or other toxic health effects (i.e., acute or chronic). Note: "May also have or create ignition potential."	X	Potential exposure to chemical materials (e.g., handling fuel gas cartridges)	
5	<b>Heat</b> <u>Example:</u> Exposure to radiant heat sources, sparks, and splashes or spills of hot material			
6	<b>Light (optical) Radiation</b> <u>Example:</u> Exposure to strong light sources, glare, or intense light exposure which is a byproduct of a process. Note: "This category may also include hazards presented from lack of light (e.g., working in dark spaces/areas)."			
7	<b>Electrical Contact</b> <u>Example:</u> Exposure, contact, or proximity to live or potentially live electrical objects.			
8	<b>Ergonomic/ Human Factors</b> <u>Example:</u> Working in cramped spaces, repetitive movements, awkward postures, vibration, heavy lifting, etc. Note: "This category may also include unique hazards presented from tasks that require demanding or challenging degrees of mental and/or physical effort to be exerted by an individual. See <i>Physical Effort Definition/Examples</i> category for further explanation of physical effort."	X	Potential exposure to source of vibration (pneumatic nailing & stapling guns) (e.g., injuries to hands, arms), potential exposure to repetitive movements, lifting light to moderately heavy loads, and bending/twisting (when handling lumber) (e.g., Muscular Skeletal Disorders)	X
9	<b>Environmental</b> <u>Example:</u> Exposure to noisy environments, hot or cold work environments, poor weather conditions, working at a height, and any other conditions in the workplace that could cause danger, discomfort, and/or negative health effects.	X	Potential exposure to loud/prolonged noise (pneumatic nailing & stapling guns)	X

# Job Hazard Analysis

JHA Name: Pneumatic Nailing & Stapling Guns- (Airline & Cordless)



Assessment Date: 01-15-14

Revision Date: 05-15-17

Building or Location: Faribault Campus

Department or Program: Carpentry

Description of Individual Tasks or Assignments:

Fastening or Joining Materials to Lumber Surfaces

Tools, Equipment, or Machinery Used when Performing Task:

Pneumatic Nailing & Stapling Guns, Air Lines, Air Compressors, Fasteners (e.g., Nails, Staples, etc.), Fuel Gas Cartridges (e.g., Propane, Butane, Nitrogen, etc.), Batteries

**Personal Protective Equipment Requirements:**

<b>Eyes &amp; Face:</b>	Safety Glasses with Side Shields or Goggles (Required when using pneumatic nailing & stapling guns)
<b>Head &amp; Ears:</b>	Hearing Protection Devices (Required when using pneumatic nailing & stapling guns)
<b>Whole Body:</b>	
<b>Feet:</b>	
<b>Hands:</b>	Anti-Vibration Gloves (Optional/Available when using pneumatic nailing & stapling guns)
<b>Respiratory:</b>	
<b>Other:</b>	

**Other Control Measures or Requirements (Engineering & Administrative Controls):**

**#1) Impact Hazards, & #2) Penetration or Cut Hazards:** Ensure the nose guard safety spring is in place. Whenever possible use pneumatic fastening tools with a “sequential-trip trigger,” or sequential-trip technique. This mode requires operators to press the nose guard against the work surface then press the trigger. Operators have to release the trigger and press it again to fire another fastener. Bump nailing is much faster (often used in jobs where high productivity output is required), but it is a more dangerous technique. This technique is where operators depress the trigger before touching the work surface; the operator can then quickly fire a fastener each time they press the tool against the stock. Always handle the gun as if it is loaded, never point it towards yourself or any other person. Keep your holding or supporting hand well back from the area being fastened, and know what is behind the objects/surfaces being fastened. Never hold, carry, or move about the work area with the trigger depressed. Use only fasteners recommended by the manufacturer or supplier. **#8) Ergonomic Hazards:** Personnel should receive Ergonomics training (including warning signs and conditions of ergonomic/human factors hazards). Make sure your grip and footing are secure when using pneumatic nailing & stapling guns to prevent strains and slips. "Note: pneumatic nailing & stapling guns are only operated for very short periods of times in most College environments in comparison to other General Industry, and/or Construction applications." **#9) Environmental Hazards:** Personnel should receive Hearing Conservation training (e.g., regarding noise hazards). Personnel using pneumatic nailing & stapling guns should be included in the Hearing Conservation Program. **Miscellaneous Considerations:** On airline models, verify correct air supply and pressure on compressor before connecting the tool; ensure air pressure is appropriate for the tools, fasteners, and construction material. Never operate at pressures above the manufacturers' rating. Check that the tool is correctly and securely connected to the air supply hose (i.e., positive locking device). Disconnect the nail gun from the air supply whenever: clearing jams, making adjustments; if you're leaving it unattended; if moving to a different work area, or passing it to other persons. Depress the trigger (in a safe direction) to ensure all air is exhausted from the tool before clearing blockages, etc. Never use bottled gas as a power source for pneumatic tools. Before using pneumatic nailing/stapling tools, check stock for knots, nails, staples, screws, and other foreign objects; these objects can deflect nails and other fasteners. Operators of tools, equipment, and machinery should read and follow all Manufactures' recommendations/requirements (e.g., inspections, servicing/maintenance, safe usage, etc.). Any tools, equipment, or machinery found damaged, defective, or otherwise unsafe should immediately be removed from service and not used until repaired or replaced. Personnel should always consult their Supervisors on the selection and use of PPE for the tasks being performed.

**Physical Effort Definition/Examples**

**1.) Physical Mobility-** Movement from place to place on the job, considering distance and speed **2.) Physical Agility-** ability to maneuver body while in place or in static position **3.) Physical Strength (Light to Moderate)-** Ability to handle routine office materials and tools **4.) Physical Strength (Moderate to Heavy)-** Ability to handle 50lbs+ objects, considering frequency **5.) Dexterity-** skill and ability in using hands, fingers, and feet **6.) Physical Balance-** ability to maintain balance and physical control **7.) Coordination-** harmonious functioning of body parts (e.g., eye/hand, hand/foot, etc.) **8.) Endurance-** ability to sustain a prolonged stressful effort or activity with limited opportunity to rest

Note: "This JHA provides only the minimum PPE/safety requirements necessary to safely complete the task or assignment, and the JHA only covers the hazards or exposures that are most likely to be encountered. Nothing within this JHA bars or restricts personnel from requesting higher degrees of PPE or control to mitigate workplace hazards. In addition, South Central College personnel (e.g., employees and students) are required to complete any applicable safety or on-the-job trainings required prior to performing their positions or participating in their programs of study. Finally, South Central College personnel should consult their supervisors/instructors, the college's written safety programs/policies, and/or the Security & Safety Director whenever they have questions or concerns."

**Certification: This document certifies a hazard assessment was conducted meeting the provisions specified under 29 CFR 1910.132 (d) and South Central College's related safety programs and policies.**

Name: Al Kluever  
Date: 05-15-17