## JOB SAFETY ANALYSIS

**Task/ Job:** ____________________________  
**Location:** ____________________________  
**Persons undertaking assessment:** __________________  
**Date of assessment:** ____________________

<table>
<thead>
<tr>
<th>Job Description</th>
<th>Potential Hazards</th>
<th>Prevention/Mitigation</th>
<th>PPE Required</th>
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</table>
| **Welding operation** | - Sparks could burn eyes, hands, clothes              | - Personnel who involve in this operation should review safety training online.  
- Dark clothing works best to reduce reflection under the face shield. Heavier materials, such as wool clothing, heavy cotton or leather, are preferred as they resist deterioration.  
- Full face shield has to be used during the operation.  
- Materials that can melt or cause severe burn due to sparks that may lodge in rolled-up sleeves, pockets of clothing or pant cuffs are not recommended.  
- Do not use ring and metal watch.  
- If welding outside shop, get approval from authorized person required.  
- Do not weld near flammable or combustible material (mixture of flammable gas, vapors, or liquids). Move flammables at least 35 feet away or protect them with flame-proof covers.  
- Do not weld on drums, tanks or any closed containers unless a qualified person has tested it and declared it or prepared it to be safe.  
- All electrical cords shall be inspected and in good working condition prior to use (no missing ground pins, no damaged cords, or frayed wires evident).  
- Welded materials should be put in a safe place to cool. | - Welder cap  
- Proper hand gloves  
- Full face shield  
- Flame resistant apron |
| **Fire/explosion**  | -                                           | -                                                                                                                                           |                                                                                   |
| **Electric shock**  | -                                           | -                                                                                                                                           |                                                                                   |
| **Work at height**  | **Falling from height**                           | - Ensure ladder is suitable, stable, and strong enough for the job, maintained and checked regularly.  
- Rest a ladder against firm and level upper surfaces.  
- Check all four stepladder feet are in contact with the ground and the steps are level.  
- Keep hands free of additional material when climbing.  
- Do not overreach.  
- Maintain three points of contact at the working position. This means two feet and one hand, or when both hands need to be free for a brief period, two feet and the body supported by the stepladder.  
- Try to position the stepladder to face the work activity and not side on. | - Non-slip shoes  
- Proper hand gloves  
- Hard hat |
| **Pinch point**     | **Pinching**                                   | - Identify possible pinch point hazards.                                                                                                                                                                         | Proper hand gloves |

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**Note:** This form should be filled out before starting any welding operation. The assessment should be reviewed and signed by the supervisor, and a copy should be kept on file.
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| hands/fingers | - Do not use ring and metal watch.  
  - Keep fingers from pinch point and watch where you place your hands.  
  - Focus on objects that move or possibly could move.  
  - Be aware of pinch points created by objects that move and come into direct or close contact with relatively fixed object. |  | 
| --- | --- | --- | --- |
| Cutting operation | - Flying sparks from metal, falling pieces of metal causing laceration to fingers/hand  
- Bodily injuries  
- Noise | - Wear eye protection, gloves and steel-toed shoes. If possible, have a helper catch cut-off material.  
- Keep body away from cutting edges, crushing, caught-between, cutting, tearing, and shearing items.  
- Use leather or cut-resistant work gloves when manipulating hand tools, handling sharp-edged material, or when hands are exposed to potential pinch points or lacerations.  
- Clear area of other people.  
- Ensure hands and body parts are kept clear of moving saw blade during operation.  
- Noise can cause permanent hearing damage, hearing protection has to be used during the operation. | - Cut-resistant gloves  
- Hearing protection  
- Safety glasses  
- Face shield  
- Steel-toed shoes | 
| Overhead Objects | - Falling from height  
- Strike against | - The area to which objects could fall must be barricaded and individuals not equipped with hard hats prohibited from entering.  
- Hard hat is required to use for this activity. When strike against happen, the suspension system inside the hat is designed to help absorb and dissipate impact while keeping a clearance between the head and shell of the hat. | - Non-slip shoes  
- Hard hat | 
| Hand/Power Tool Use | - Improper Hand/Power Tool Use  
- Sprains/Strains  
- Flying Debris  
- Pinch points | - Follow requirements of manufacturer's operations manual/instructions during use, including use of recommended PPE, if any.  
- Avoid working with elbows elevated at awkward angles. Use in-line tools, if available, to keep the wrists straight  
- Wear eye protection (Safety Glasses with side shields, or in combination with face shield, as required)  
- Use leather or cut-resistant work gloves when manipulating hand tools, handling | - Safety glasses  
- Proper hand gloves  
- Face shield (if required) |
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<th>- Exposed sharp hand tools</th>
<th>sharp-edged material, or when hands are exposed to potential pinch points or lacerations.</th>
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<td>- Utilize equipment/tools as per their intended.</td>
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<td>- Use leather or cut-resistant work gloves when manipulating hand tools, handling sharp-edged material, or when hands are exposed to potential pinch points or lacerations.</td>
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