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|  | Job Safety Analysis |
| Portland State University |  |
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| Facilities Services |  |  |
| Using a Pipe Threader |
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| **Task** | **Hazards** | **Controls** |
| 1. Check cutting oil and clean the catch pan.
 | Slips | Control oil contact with the floor.Wear non-slip shoes.Clean up spills.Use a floor covering or absorbent such as kitty litter. |
| Skin or eye injury from the cutting oil in the reservoir | Use nitrile gloves.Use a vacuum cleaner to clean the catch pan.Wear eye protection. |
| 2. Feed the pipe into the sleeve. | Hand injury while sliding the pipe through. | Wear leather gloves or similar protection. |
| Muscle strain | Position pipe without reaching over the threader. |
| 3. Clamp the pipe in place. | Hand injury | Wear leather gloves or similar protection.Keep your foot out of the foot safety switch.Don’t tighten the clamp while the machine is running. |
| 4. Ream pipe. | Hand injury | Don’t drop the reamer on your hand while positioning the reamer. |
| 5. Load the appropriate cutting die. | Hand injury | Keep hand away from the die. |
|  | Don’t clean the die or the pipe end with your hands.Don’t start the machine until the die is set. |
| 6. Start the threader. | Injuries due to clothes catching on the threader | Don’t wear loose clothing while operating the threader.Keep your gloved hands away from the die and the pipe. |
| Skin or eye injury from the cutting oil being delivered to the pipe. | Use nitrile gloves.Wear eye protection. |
| 7. Feed the die. | Metal debris projectiles | Wear long sleeved shirt, gloves, and face  |
| Burns from metal debris | Wear long sleeved shirt, gloves, and face shield. |
| 8. Release the die. | None foreseen |  |
| 9. Retract the die. | None foreseen |  |
| 10. Wipe excess oil and metal debris from the pipe. | Hand injury from rotating threads | Wear gloves and don’t touch the rotating threads.Use a steel brush or similar instrument to clean the threads. |
| Injuries due to clothing catching on the threader | Don’t wear loose clothing while operating the threader.Keep your gloved hands away from the rotating pipe. |
| 11. Loosen and pull the pipe. | Hand injuries from interaction with the pipe vise. | Remove foot from the safety switch, flip the switch off, and ensure the pipe has stopped rotating.Wear gloves. |
| Hand injuries from interaction with the pipe vise | Remove foot from the safety switch, flip the switch off, and ensure the pipe has stopped rotating.Keep your fingers (gloved) away from the vise jaws. |
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| **Required Training:**1. Training in the operation of the pipe vise
2. Proper lifting techniques
 | **Required Personal Protective Equipment (PPE)**1. Nitrile gloves
2. Leather (or similar gloves)
3. Eye protection
4. Face shield
5. Long sleeved shirt
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| **Other Information:** |  |
| **Contributors:** | Reviewed JKM |
| **Created:** | July 2006 |