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|  | Job Safety Analysis |
| Portland State University |  |
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| Facilities Services |  |  |
| Pipe Cutting Using the Pipe Threader |
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| **Task** | **Hazards** | **Controls** |
| 1. Check cutting oil and clean the catch pan.
 | Slipping hazard | 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 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 our of the foot safety switch.Don’t tighten the clamp while the machine is running.Support the back end of the pipe. |
| 4. Ream pipe (if necessary). | Hand injury | Don’t drop the reamer on your hand while positioning the reamer. |
| 5. Set the cutter. | Hand injury | Wear gloves.Keep your hands away from the pipe. |
| 6. Start the threader/cutter. | Injuries due to catching the clothing  | Don’t wear loose clothing while operating the threader/cutter.Keep your gloved hands away from the pipe. |
| Skin or eye injury from the cutting oil being delivered to the pipe. | Use nitrile gloves.Wear eye protection.Wear long-sleeved shirt, gloves, and face shield. |
| Foot or leg injuries from dropping the cut piece of pipe. | Support the pipe before beginning the cut. |
| 11. Loosen and pull the pipe out the back or feed it in for another cut. | Hand injuries from sharp ends. | 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. |
| **Required Training:**1. Training in the operation of the pipe threader/cutter
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 |