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|  | Job Safety Analysis | | |
| Portland State University | |  |
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| Facilities Services |  |  |
| Working in Manlift (Aerial Lift) | | |
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| **Task** | **Hazards** | **Controls** |
| 1. Prepare work area. | Injuries to operator, co-workers, and bystanders | Warn people in work area; utilize barricades, cones, or caution tape to keep bystanders a safe distance from job; position lift away from traffic, building overhangs, and power lines; level truck base and block wheels.  Visual inspection and operational check of aerial lift |
| 2. Operate lift. | Falling injuries | Secure operator with a body harness and personal lanyard anchored to boom.  Never exceed the posted lift capacity (including worker, material, and tools).  Never use lift as a crane or hoist to lift or lower materials.  Always look in the direction of travel of the bucket when operating lift; never run boom or bucket into conductors, cables, poles, trees, etc.  Never move the lift truck when the boom is elevated in a working position with an operator in the bucket.  No part of the body shall be used to locate or to attempt to stop a hydraulic leak. |
| Eye, hand, arm injuries to operator | Wear hard hat, gloves, and safety glasses. |
| Electrical injuries to operator. | Maintain a minimum clearance of 10 feet from energized conductors rated 50kV phase-to-phase or less; for lines rated over 50kV phase-to-phase, the minimum clearance shall be 10 feet plus 4/10 inch for each kilovolt greater than 50 kV phase-to-phase.  **WARNING:** Insulated buckets do not protect operators from other electrical paths to the ground, such as those through trees, through a guy wire, or the path from one phase wire to the second phase wire, any one of which can be fatal. |
| **Required Training:**   1. Operation of aerial lift 2. Electrical safety 3. Fall protection | **Required Personal Protective Equipment (PPE)**   1. Hard hat 2. Gloves 3. Safety glasses 4. Body belt 5. Lanyard | |
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| **Other Information:** |  | | |
| **Contributors:** | Reviewed JKM | | |
| **Created:** | July 2006 | | |