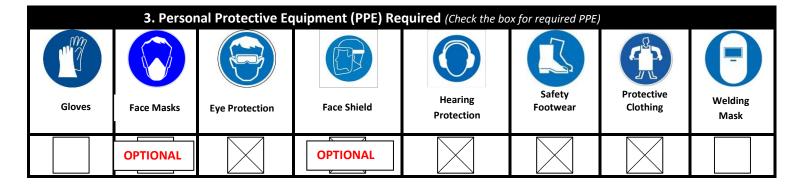
| UC SANTA BARBARA Environmental Health & Safety Design, Facilities & Safety Services | | Authorized/Approved By: John M. Seaman, EHS Industrial Safety Manager | |
|---|--------------|---|--|
| | | | |
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| 1. Hazard Management Details - General | | | |
|--|---|---|--|
| Shop/Equipment Item: DRILL PRESS | Make/Model No.: | Serial No.: | |
| Department: | Work Location: | | |
| Person(s) Conducting Hazard Analysis: JOHN M. SEAMA EHS, Industrial S | | Date Conducted: May 2, 2013 | |
| Equipment Photo: | Description of Use: | Summary of Key Risks: (refer to appropriate subsections) | |
| | A drill press is a specialized tool which uses a rotating drill bit to accurately drill holes via a levered action. | Entanglement Trauma (Impact and Cutting) Eye Injury Inhalation Hand and/or Foot Injuries Head Injury Fire Electrical Shock | |

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| 2. Documentation: | | | |
|---|--|-----------|--|
| Relevant Legislation/Standards | Y/N | Comments: | |
| a. Is equipment required to be registered? | YN | | |
| b. Is a user license/Certification required? | Y N | | |
| c. Key Reference Materials Required: | AS 1473 Guarding and safe use of woodworking machinery AS4024 Safeguarding of machinery AS/NZS 3760 In service safety inspection and testing of electrical equipment | | |
| Equipment Documentation | Y/N | Comments: | |
| a. Are operator's manuals accessible? | Y N | | |
| b. Is this a restricted use item? | Y N | | |
| c. Does this equipment require safe use document(s)/test? | Y N | | |



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| 4. Hazard Analysis | | | | |
|----------------------------------|----------------------------|--|--|--|
| TASK | HAZARD | CAUSE | PREVENTIVE MEASURE | |
| a. Routine Operation | Entanglement | Long hair, loose clothing, rags, cleaning brushes and jewelry could become entangled in the moving parts of the drill press. | Aprons can be used to restrict loose clothing. Hair ties/hair nets can be used to secure long hair. Jewelry and accessories should not be worn when operating equipment. | |
| | Trauma (Impact/ Cutting) | Projectiles, rotating parts, point of operation, ingoing nip points, flying chips & sparks | Machine guards, situational awareness | |
| | Eye Injury | Projectiles, flying chips/sparks | Safety glasses with side shield or appropriate safety goggles | |
| | Inhalation | Filings/particles generated during machine operation | Appropriate natural ventilation, disposable respirators | |
| | Hand Injury | Projectiles, rotating parts, point of operation, ingoing nip points, flying chips & sparks | Gloves (optional), machine guards, situational awareness | |
| | Foot Injury | Drop object on foot | Wear safety shoes/boots | |
| | Head Injury | Projectiles, flying sparks | Face shield (if necessary) | |
| | Fire | Sparks and/or friction | Remove all combustibles and fire hazards from work area. Keep appropriate fire extinguisher nearby. | |
| b. Routine Maintenance/Repair | Electrical Shock | Improper grounding, improper operations and maintenance | Proper grounding of frame, manufacturer's instructions strictly followed, machine inspected pior to use | |
| c. Shutdown and Isolate Unit | Trauma Electrical Shock | Uncontrolled/unexpected start-up of machine | Use appropriate energy isolation procedures prior to beginning maintenance work | |
| | | failure to follow energy isolation/Lockout – Tagout procedures | Strictly adhere to established Lockout/Tagout protocols | |

| UC SANTA BARBARA Environmental Health & Safety Design, Facilities & Safety Services | | Procedure No.: SS-MHA- DRLPRS Equipment/Machine: DRILL PRESS | |
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Equipment Procedures/ Requirements

- 1. Operate equipment in strict accordance with Manufacturer's instructions and in accordance with OSHA 29 CFR 1910.212.
- 2. Only authorized users can operate equipment.
- 3. A mechanical or electrical power control shall be provided to make it possible for the operator to cut off power without leaving his position at the point of operation.
- **4.** All operators must be trained and instructed in the safe method of work. The employer shall ensure by adequate supervision that the correct operating procedures are being followed.
- 5. Machines designed for a fixed location shall be securely anchored to prevent walking or moving.
- **6.** Every point of operation guard shall prevent entry of hands or fingers into point of operation and shall conform to all requirements as outlined in 29 CFR 1910.217.
- **7.** Report any observed defect or safety hazard to your supervisor immediately.
- 8. Where any object handled would possibly cause injury to feet if dropped, safety shoes will be worn.
- **9.** Where any object handled could possibly cause cuts, punctures or abrasions to hands, appropriate gloves will be worn. (**Exception:** where rotating machinery presents a greater hazard of entangling gloves, they are optional with written justification).
- 10. Keep hands, hair and loose clothing clear of all moving parts.