JOB SAFETY ANALYSIS

Safety Information for the University of California, Berkeley

DEPARTMENT OF MECHANICAL ENGINEERING OPERATING A DRILL PRESS

	Таѕк	HAZARDS	CONTROLS
1.	Assess work area; is it clear of obstructions and slip/trip/fall hazards?	• Slip, trip, or fall	Clear work area of any obstructions or slip/trip/fall hazards
2.	Secure work piece to table using vise or T-slot clamps	 Pinch points for fingers Lacerations to fingers/hands from material Work piece coming loose or flying out of vise 	 Keep hands free from pinch points, do not put fingers under part or vise Deburr work piece before loading into vise, wear gloves only when loading/unloading material Tug on work and check if secure prior to drilling
3.	Load drill bit into chuck	 Pinching hazards Lacerations to hands/fingers from bit Misalignment of bit in chuck 	 Keep hands free from pinch points Handle tool bit with care; avoid sharp edges Ensure all 3 chuck jaws are making contact with the bit
4.	Perform drilling operation	 Part ejected from vise, hitting operator Flying debris from drilling operation Entanglement of operator Excessive noise levels 	 Ensure the part is secure in the vise. Use appropriate feed and speed Always wear safety glasses when operating Never wear loose clothing when operating, tie hair back, tuck in drawstrings, and remove jewelry Wear hearing protection if necesary

	5. Unload part from vise	 Pinching hazard to hands/fingers Laceration hazard to hands/fingers Foot injury from falling vise or part 	 Keep hands/fingers clear of pinch points Wear gloves only when loading/unloading material Do not leave vise unsecured, keep feet a safe distance away from potential falling objects 	
	6. Clean table after use	• Eye injury from debris	 Wear eye protection Do not use compressed air to clean table. Use a chip brush and wipe up excess oil. 	
	Required Training:	red Training: Required Personal Protective Equipment (PPE)		
	Student Shop Safety Training Program (Phase 1)	Leather gloves, safety glasses, ear plugs/muffs		
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