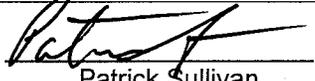


EENS Job Risk Assessment

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Name(s) of Risk Team Members: J. Heiser, T. Roberts, D. Elling, R. Wieser, L. Gerlach, J. Adams, T. Jamilkowski, P. Carr, J. Boccio, A. Piper	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Machine Shop Work Job Number or Job Identifier: EENS-JRA-002	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Rev. #: 1 Date: 3/22/07						
Job Description: Work in EENS staff machine shops in various buildings. Use of equipment such as lathes, milling machines, drill presses, grinding machines, band saws, table saws by qualified persons. No production, use as needed.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): Supervisor; Equipment Qualification	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by:  Date: 3/26/07 Patrick Sullivan						
Stressors (if applicable, please list all): Poor Lighting, No Ventilation, Preoccupation	Reason for Revision (if applicable):					Comments: Shop controlled. Staff qualified on equipment.

Job Step / Task	Hazard	Control(s)	Stressors Y/N	Before Additional Controls					Control(s) Added to Reduce Risk	After Additional Controls					% Risk Reduction
				# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	
Set Up, align material on machine tools, break down, clean up	Lacerations, abrasions	Training, gloves, safety glasses, verify machine is de-energized, postings, standing work permit	Y	1	3	2	3	18							
	Contusions, fractures	Training, safety glasses, verify machine is de-energized, postings, standing work permit	Y	1	3	2	3	18							
	Inadvertent starting	Verify machine is de-energized, Training, removal of chuck key, postings, standing work permit	Y	1	3	2	3	18							
	Manual lifting	See EENS-JRA-014													
Install cutting tool or blades into machine tools	Lacerations, abrasions	Training, gloves, safety glasses, de-energized, postings, standing work permit	Y	1	3	2	3	18							
	Inadvertent starting	Verify machine is de-energized, Training, chuck key removed, postings, standing work permit	Y	1	3	2	3	18							

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Job Step / Task	Hazard	Control(s)	Before Additional Controls						Control(s) Added to Reduce Risk	After Additional Controls					% Risk Reduction
			Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	
Adjust machine appropriate to task	Laceration/Being struck by object	Training, machine maintenance, checking speed prior to cutting operation, safety glasses, machine guarding, chuck key removed, postings, standing work permit	Y	1	3	4	2	24							
	Extremity injured/crushed	Training, machine maintenance, safety glasses, machine guard, postings, standing work permit	Y	1	3	4	2	24							
	Entangled clothing	Training, machine guarding, maintenance, appropriate dress, postings, standing work permit.	Y	1	3	4	2	24							
Milling, drilling, cutting, sanding, grinding, or turning operation	Laceration/Being struck by object, hot metal chips	Training, safety glasses, machine guarding, cutting fluid to cool metal, lighting, anti-kick back, machine maintenance/cleaning, safe start device, postings, standing work permit	Y	1	3	2	2	12							
	Cut by sharp object, drill bits, milling bits or cutting tools	Training, safety glasses, machine guard, proper traffic control, machine adjusting, postings, standing work permit	Y	1	3	2	3	18							
	Entangled Clothing	Training, machine guarding, maintenance, appropriate dress, postings, standing work permit.	Y	1	3	4	1	12							
	Particles in eyes	Training, safety glasses, machine guarding, machine cleaning/ maintenance, postings, standing work permit	Y	1	3	2	3	18							
	Noise Exposure	PPE, postings, training, standing work permit, area monitoring	N	1	3	2	1	6							
Sharpening bits and cutting tools with grinder	Being struck by object, hot metal chips, burn, lacerations	Training, safety glasses, machine guard, maintenance/cleaning, water, proper adjustment of work rest, safe start device, postings, standing work permit	Y	1	3	2	2	12							
De-burring finished part	Lacerations, abrasions, burns	Training, use of proper hand tools, safety glasses, gloves, postings, standing work permit	Y	1	3	1	2	6							
Removing Turnings	Laceration, burns	Ensure machine is de-energized, appropriate tools, Training, Safety glasses, gloves, postings, standing work permit	Y	1	3	1	3	9							

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			Before Additional Controls					After Additional Controls								
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Use of compressed air in machine shops	Skin penetration, flying debris/chips	Training, safety glasses, gloves, pressure relief nozzle assemblies, postings, standing work permit	Y	1	3	2	2	12								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate					61 to 80 Substantial					81 or greater Intolerable			

Changes, Rev. 1 - (Review Team Members: P. Sullivan, P. Carr, Bowerman, J. Madaia, D. Elling)

Editorial changes - added controls.

Added new hazard - noise exposure under "Milling, drilling, cutting, sanding, grinding, or turning operation" task