Central Michigan University

Shop Safety Policy

1/1/2014

Central Michigan University Shop Safety Program and Practices

PURPOSE

This program establishes safe work practices for students, staff, and visitors working in any academic, Facilities Management or Residence Life shop. It defines safety guidelines, training requirements, and response procedures for emergency incidents to minimize injuries and illness when working in a shop.

SCOPE

This program covers all Central Michigan University shops irrespective of their location or department.

INTRODUCTION:

Shops are present in many departments and academic laboratories and are used by faculty, staff, students, alumni, and visitors. Shop equipment and tools are routinely used to complete various projects that, if not handled properly, may result in serious injury or death. The purpose of this program is to provide a basic overview of the common hazards associated with the use of hand/power tools and equipment found in shops, laboratories or otherwise; to establish fundamental shop safety rules; outline the use of safe work practices, and use of proper personal protective equipment.

It is the responsibility of the shop supervisor, faculty member, or their designee to provide hand and power tool, machine and equipment-specific safety training with a copy of the documentation forwarded to the Environmental Health & Safety department in Smith Hall 103. Documentation of this training is to be maintained by the respective department, also. A training template example is at the end of this document. Employee awareness of potential hazards combined with proper safety procedures can reduce accidents and injuries significantly. It is of vital importance that supervisors, faculty, or their designee become familiar with the components of this program that pertain to the operations under their control. Safety is a shared responsibility that involves the cooperation and support of the University, the users, and staff. It should be understood that these are minimum standards that apply to all University shops on campus. More detailed shop specific rules may also be developed by shop supervisors and departments based on their particular activities within the shop.

It is not possible to detail all the risks involved with shop work; however, it is possible to foresee many hazards by carefully planning each job. To prevent accidents and injury, shop users must utilize their knowledge, training, and common sense.

RESPONSIBILITIES

Department

- 1. Must inform all shop users to follow Central Michigan University's Shop Safety Program.
- 2. Must provide adequate resources for maintenance, repairs, and safe guarding equipment.
- 3. Enforces all safety rules.

Environmental Health & Safety

- 1. Responsible for reviewing and updating this program.
- 2. Collaborate with shops personnel on training requirements where necessary.
- 3. Responsible for conducting periodic audits and inspections of various shops.

Supervisors, Faculty or Designee

- 1. Responsible for being familiar with all procedures for safe use and guarding of machines, hand and powered tools, equipment, personal protective equipment required, and must ensure that all users of a machine shop are familiar with the components of this program.
- 2. Must provide tool/equipment specific training to all persons who will use the shop prior to working with shop tools/equipment. Must maintain documentation of tool/equipment specific training.

Users

Persons working in a shop should avoid doing so alone. Working alone in a shop with potentially hazardous equipment is never a good idea. If the supervisor, faculty member, or other designated employee determines that work must be done under these conditions, the hazards should be assessed, contingencies thought out and discussed, and the work approved only if the chances of injury are minimal.

- 1. If possible, use the "buddy system" when working in the shop.
- 2. Must complete all required safety training.
- 3. Must observe all shop safety rules when working in the shop.
- 4. Must wear all required PPE when working in the shop.
- 5. Must observe all shop-specific rules/regulations beyond the scope of this program.
- 6. Must report all injuries to a shop supervisor promptly, regardless of severity.
- 7. Must promptly report unsafe conditions, damaged or defective equipment to shop supervisor.
- 8. Seek further guidance on any machine/equipment and or safety related issues that are unclear.
- 9. Work with the shop supervisor, faculty, or designee if there are specific needs for your work.

PROCEDURE

Emergency Contacts

CMU Police:	911 from campus phone or 774-3081
Shop Supervisor	XXX-XXXX
Facilities Management:	774-6547
Risk Management/Environmental Health & Safety:	774-7398

Shop Access (after hours)

Only authorized persons who have been trained in all aspects of this shop program will be allowed access to the shop after regular business/classroom hours. All safety guidelines must be adhered to while using the shop. Misuse of equipment/tools and or disregard for the shop safety guidelines should be reported to the person in charge of the shop as soon as possible. Report as soon as possible if tools or equipment are in need of repair. Never use a defective tool or piece of equipment. Make all adjustments to equipment while power is off and while blades, bits, etc. are NOT moving. If an accident occurs, immediately summon help for an injured person by dialing 911 from any campus phone or 774-3081 if using a cell phone, and then call the person in charge of the shop regardless of the time of day.

When finished working in the shop, users must clean up the equipment that was used and the surrounding area, return tools to their proper place, and make certain the door to the shop is closed and locked upon leaving.

SHOP HAZARDS

Hazardous Mechanical Motions and Actions

A wide variety of mechanical motions and actions may present hazards to persons working in the shop. These can include the movement of rotating members, reciprocating arms, moving belts, meshing gears, cutting teeth, and any parts that impact or shear. These different types of hazardous mechanical motions and actions are basic to nearly all machines and recognizing them is an important first step in protecting an individual from the dangers. The basic types of hazardous mechanical motions are:

Motions:

- Rotating (including in-running nip points): Even smooth, slowly rotating shafts can grip clothing, and through mere skin contact, force an arm or hand into a dangerous position. Injuries due to contact with rotating parts can be severe. Collars, couplings, cams, clutches, flywheels, shaft ends, spindles, and horizontal or vertical shafting are some examples of common rotating mechanisms which may be hazardous. The danger increases when bolts, nicks, abrasions, and projecting keys or set screws are exposed on rotating parts. In-running nip point hazards are caused by rotating parts on machinery. There are three main types of in-running nips:
 - I. Parts can rotate in opposite directions while their axes are parallel to each other. These parts may be in contact (producing a nip point) or in close proximity to each other. In the latter case the *stock* fed between the rolls produces the nip points. This danger is common on machinery with intermeshing gears, rolling mills, and calendars.
 - II. Another nip point is created between rotating and tangentially moving parts. Some examples include: the point of contact between a power transmission belt and its pulley, a chain and a sprocket, or a rack and pinion.
 - III. Nip points can occur between rotating and fixed parts which create a shearing, crushing, or abrading action. Examples include: spoked hand wheels or flywheels, screw conveyers, or the periphery of an abrasive wheel and an incorrectly adjusted work rest.



Figure 2.

Examples of In-running Nip Points—Parallel Axes, Rotation in Opposite Directions



Figure 3.

Examples of In-running Nip Points—Rotating and Tangentially Moving Parts



Figure 4.

Examples of In-Running Nip Points—Shearing, Crushing, Abrading Actions



2. **Reciprocating** motions are hazardous because during the back-and-forth or up-and-down motion, a worker may be struck by or caught between a moving and a stationary part.

Figure 5.

Example of a Reciprocating Motion



3. **Transverse** motions (movement in a straight, continuous line) creates a hazard because a worker may be struck or caught in a pinch or shear point by the moving part.

Figure 6.



Example of a Transverse Motion

Actions:

Cutting actions involve rotating, reciprocating, or transverse motions. The danger of cutting actions
exist at the point of operation where finger, head, and arm injuries can occur and where flying
chips or scrap material can strike the eyes or face. Such hazards are present at the point of
operation in cutting wood, metal, or other materials. Typical examples of mechanisms involving
cutting hazards include band saws, circular saws, boring or drilling machines, turning machines
(lathes), or milling machines.

Figure 7.



Examples of Cutting Actions That Can Present Hazards

 Punching actions result when power is applied to a slide (ram) for the purpose of blanking, drawing, or stamping metal or other materials. The hazard from this type of action occurs at the point of operation where stock is inserted, held, and withdrawn by hand. Examples of machinery used for punching operations are power presses and ironworker machines.

Figure 8.



3. **Shearing** action involves applying power to a slide or knife in order to trim or shear metal or other materials. The hazard occurs at the point of operation where stock is actually inserted, held, and withdrawn. Examples of machinery used for shearing operations are mechanically, hydraulically, or pneumatically powered shears.

Figure 9.





4. **Bending** actions result when power is applied to a slide in order to draw or stamp metal or other materials, and a hazard occurs at the point of operation where stock is inserted, held, and withdrawn. Equipment that uses bending actions include power presses, press brakes, and tubing benders.

Figure 10.





Spray Paint Booths

When working with paint or painting equipment, it is important to have adequate ventilation and to avoid flames or other sources of ignition. Because most paints, varnishes, and thinners are flammable, spray paint jobs should be conducted in a well-ventilated enclosure such as a spray paint booth. Spray paint booths minimize toxic vapors and flammable fumes while providing adequate ventilation. Always wear personal protective equipment when working with paint and varnishes. Read the Safety Data Sheet (SDS) provided by the product manufacturer. In addition, change filters, clean the booths and ventilation ducts frequently to avoid heavy accumulations of paint, dust, and pigment.

Welding and Cutting

Welding and cutting are two forms of hot work that require special safety considerations. Common hazards associated with welding and cutting include the following:

- 1. Electrocution
- 2. Burns
- 3. UV radiation exposure
- 4. Oxygen depletion
- 5. Sparking
- 6. Metal fume inhalation

Before conducting welding or cutting operations, inspect the equipment for the following:

- 1. Welding power and ground cables are sized properly for the current required
- 2. Welding cable and electrode holder are in good condition (i.e. electrical connections are not frayed, cables and insulation are not damaged, cut, nicked, etc.)
- 3. Torches are leak-free and equipped with proper fittings, gauges, regulators, and flashback devices.
- 4. All compressed gas cylinders are secured with non-combustible restraints to keep the cylinders from falling if bumped. All compressed gas cylinders are capped when not in use.

In addition, follow these guidelines for welding and cutting operations (various departments, for example, Art & Design, may also have Standard Operating Procedures (SOP's) specific to the type of welding or cutting activity):

- 1. Wear proper PPE; it is important that the welding helmet visor is dark enough to provide adequate protection. Wear flame resistant jacket, head/hair protection, and protective hand and footwear appropriate for the welding task.
- 2. Conduct welding and cutting operations in an area designated for the task. There should be signage that designates a welding area.
- 3. Keep suitable fire extinguishing equipment nearby and know how to operate it.
- 4. Take precautions to protect other people from the hazards of welding. If possible, use a welding curtain.
- 5. Do not use electric welders and cutting tools in a wet area.

Foundry Work

The methods and materials involved in metal casting operations are highly hazardous. It is important to understand proper safety precautions before attempting any metal casting. Not following these precautions could cause injury or death, either to you or someone else. Common hazards and precautions include, but are not limited to the following:

- 1. Moisture and molten metal DO NOT mix. Even trace amounts of moisture in contact with molten metal can cause an explosion, which can lead to serious injury or death.
- 2. NEVER put water on a metal fire.
- 3. Have a DRY pile of sand and a shovel ready to put out fires or to control metal spills.
- 4. Have a sand layer at least 1 inch thick under all areas. This will help contain metal spills and protect flooring.
- 5. Never pour molten metal over wet ground. Again, even trace amounts of moisture can cause explosions.
- 6. Molten metal spilled on concrete will cause the concrete to explode. Use a thick sand layer over concrete.
- 7. Always use clean metal as feedstock. Combustion residues from some lubricants and paints can be toxic.
- 8. Always operate in a well-ventilated area. Fumes and dusts from combustion and other foundry chemicals, processes, and metals can be toxic.

- 9. Never use a crucible that has been damaged or dropped.
- 10. Adding cold metal to a hot crucible is dangerous. Hot crucibles can be safety charged as long as metal charges are preheated. If there is any moisture on the metal, even just a haze, the metal can cause the entire contents of the crucible to explode. Refer to the specific process SOP for further instructions.
- 11. Spilled molten metal can travel for a great distance. Operate in a clear work area.
- 12. Think about what you are doing at all times. Focus on the job at hand and the next step. Have all moves planned and rehearsed prior to any operation.
- 13. Clothes and shoes should be made from cotton or natural fibers. Synthetics melt and stick to the skin. Wear appropriate PPE. This includes, but is not limited to:
 - a. Leather shoes
 - b. Fireproof foundry jacket (leather or aluminized fabric) with apron over top.
 - c. Proper foot and leg protection
 - d. Proper hand protection
 - e. Helmet with mesh face shield
 - f. Safety glasses
 - g. Cotton or nomex foundry hat
 - h. Long sleeved cotton shirt
- 14. During a pour, observers must stand at a safe distance from the pit. Based on the type of pour, this distance will be determined by the supervisor, faculty, or designee.
- 15. Do not distract anyone during a pour.
- 16. Do not look into the furnace or kilns without a wire mesh shield or appropriate eye protection for splattering and infrared radiation.

Applicable MIOSHA Regulations

- MIOSHA Part 1 A: Abrasive Wheels
- MIOSHA Part 7: Guards for Power Transmission
- MIOSHA Part 12: Welding and Cutting
- MIOSHA Part 23: Hydraulic Power Presses
- MIOSHA Part 24: Mechanical Power Presses
- MIOSHA Part 26: Metal Working Machinery
- MIOSHA Part 27: Woodworking Machinery
- MIOSHA Part 33: Personal Protective Equipment
- MIOSHA Part 38: Hand and Portable Power Tools
- MIOSHA Part 44: Foundries
- MIOSHA Part 76: Spray Finishing Using Flammable and Combustible Materials

SHOP SAFETY GUIDELINES/RULES

- 1. Do not use any machine until you have been trained and are knowledgeable on its safe use.
- 2. Approval to operate shop tools/power equipment must be obtained prior to use.
- 3. When possible, use the buddy system when working in the shop.
- 4. After hours use must first be approved by the supervisor, faculty, or their designee.
- 5. Never work when you are impaired, tired, stressed or otherwise unable to work carefully.
- 6. Always wear eye protection with side shields around equipment or in a shop, even if you are not using the equipment.
- 7. Always wear closed-toed shoes appropriate for the task at hand. Sandals, clogs, crocks, and high heels should not be worn.
- 8. Always tie back long hair, including long beards so that hair does not hang in front of the neck/face.
- 9. Never wear loose-fitting clothing, jewelry (including rings, necklaces, bracelets, wristwatches, etc.) or anything else that could get caught in the machinery.
- 10. Cell phone use and portable music players with headphones are prohibited while working in the shop.
- 11. Never place hands in the area of any cutting head, drill, or other rotating or cutting device/tool.
- 12. All guards/shields must be secured and in place prior to operating equipment. Never remove guarding/shielding.
- 13. Never leave a machine while it is running.
- 14. Always remove wrench or tightening devices prior to starting the machine.
- 15. Never walk directly behind a person who is operating machinery. Wait until the operator is finished or seek an alternate route.
- 16. Never interrupt or distract a person while they are operating equipment. Wait until the operator is finished.
- 17. Always check wood for screws or other embedded metal objects before cutting or machining.
- 18. Always alert others to malfunctioning equipment by turning it off, placing an "Out of Order" sign on the equipment, and informing the supervisor, faculty, or designee responsible for the equipment.
- 19. Never use damaged or defective tools/equipment.
- 20. Keep work area clean. Remove chips and waste pieces from floor, but do not handle chips with bare hands/fingers. Clean spills from floor immediately.
- 21. Compressed air must not be used to clean skin or clothing.
- 22. Aisles, exits, and access to emergency equipment must be kept clear at all times.
- 23. Food and drinks are permitted in designated areas only.
- 24. Report all injuries or near misses to the supervisor, faculty, or designee immediately or as soon as possible if after hours.
- 25. Supervisor, faculty, or designee has full authority over the shop and its safe use, including the responsibility, authority, and obligation to prohibit shop or tool access for the safety of those in the shop.

Emergency Contact(s)

CMU Police:	911 from campus phones – or 774-3081
Shop Supervisor	ххх-хххх
Facilities Management:	774-6547
Risk Management/Environmental Health & Safety:	774-7398

SHOP SAFETY GUIDELINES/RULES-Signature Page

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I have read and understand the above shop safety guidelines/rules.

Signature:_____

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Central Michigan University

Machine Specific Training Record Form

The individual listed below has satisfactorily been trained on the safe use and operation of the specified shop equipment.

EMPLOYEE/STUDENT NAME	CMU EMPLOYEE/STUDENT ID NUMBER	Shop Equipment Trained On (Make separate entry for each piece of	DATE	EMPLOYEE/STUDENT SIGNATURE	SHOP SUPERVISOR SIGNATURE
		equipment			

Tool Safeguarding and Controls

ТооІ Туре	Size/Style	Power	Potential Hazards	Power Controls	Emergency Stopping	Shields and Guards	Other Protective Measures
Band Saw / Small	Bench	Electric	Cutting blade-minor lacerations Rotating blade pulleys-pinch points, minor -entanglement Flying objects-eye, face, skin injuries	Anti-restart for wood	E-Stop, accessible single action hand switch, or foot switch	Blade Covered pulleys	Push sticks Fence
Band Saw / Large	Standing	Electric	Cutting blade-minor lacerations Rotating blade pulleys-pinch points, minor entanglement Flying objects-eye, face, skin injuries	Anti-restart for wood	E-Stop, accessible single action hand switch, or foot switch	Blade plus extension if needed Fully encased bandsaw wheels	Smallest opening in work surface possible
Buffer, Wheel	Bench or Standing	Electric	Rotating parts-entanglement Flying objects-eye, face, skin injuries Parts pulled/thrown from hand – flying objects		E-stop, accessible single action hand switch, or foot switch	Rotating shaft and nut guards as feasible	Clamps for holding small parts
Drill/Grinder Sharpener	Bench or Standing	Electric	Rotating shaft and wheel-pinch points, abrasions Flying objects-eye, face, skin injuries Heat/Sparks –burns, fire		E-stop, accessible single action hand switch, or foot switch	Wheel Chip shield as feasible	Bit vise/Clamp Faceshield if excessive flying objects expected
Drill Press/Small	Bench	Electric	Sharp cutting bit-minor lacerations, punctures Rotating chuck and bit-minor entanglement Flying objects-from parts working or from thrown chuck key part-eye face, skin injuries Torque exerted on work piece- impact injuries	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	Covered pulley head Portable chuck/chip Rear shielding as needed	Vise-secured Spring-loaded chuck key Work/tool rest
Drill Press/Large	Standing	Electric	Sharp cutting bit-minor lacerations, punctures Rotating chuck and bit-minor entanglement Flying objects-from parts working or from thrown chuck key, part-eye face, skin injuries Torque exerted on work piece- impact injuries	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	Covered pulley head Affixed multi-plane chuck/chip Rear shielding as needed	Vise-secured Spring-loaded chuck key Hearing protection for high pitch metal cutting
Grinder(hard wheels)	Bench or Standing	Electric	Rotating shaft and wheel-pinch points, abrasions Flying objects-parts or wheel shatter-eye, face, skin injuries Heat/sparks-burns, fire		E-stop, accessible single action hand switch, or foot switch	Wheel enclosure Upper tongue Chip shield Rear shielding as needed	Work/tool rest Warning label with gap tolerances Depth/feeler gauges at all grinder stations

ТооІ Туре	Size/Style	Power	Potential Hazards	Power Controls	Emergency Stopping	Shields and Guards	Other Protective Measures
Jointer	Bench or Standing	Electric	Sharp cutting heads-serious lacerations, amputation Rotating (horizontal) parts-minor entanglement Flying objects-eye, face, skin injuries	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	Cutter shield	Push sticks and blocks
Wood Lathe	Bench or Standing	Electric	Rotating parts-serious entanglement Flying objects-from parts working or thrown chuck key, part-eye face, skin injuries Sharp cutting tools-lacerations Pinch points-crushing, bruising	Anti-restart	E-stop, accessible single action hand switch, or foot switch	Chuck Workpiece/point of operation	Tool rest Faceshield if point of operation shield not possible
Metal Lathe	Mini Bench	Electric	Rotating parts-minor entanglement Flying objects-eye, face, skin injuries Sharp cutting tools-lacerations Pinch points-minor crushing, bruising		E-stop, accessible single action hand switch, or foot switch	Portable shield	
Metal Lathe	Bench or Standing	Electric	Rotating parts-serious entanglement Flying objects-from parts working or thrown chuck key,part-eye, face, skin injuries Sharp cutting tool-lacerations Pinch points-crushing, bruising Heat-burns	Anti-restart	E-stop, accessible single action hand switch, or foot switch Emergency foot brake/power stop	Chuck (interlock preferred) Cross-slide shield Lead screw as feasible Drive shaft(s) (as feasible) Bar feeder cover (if present) Rear shielding as needed	Spring-loaded chuck wrenches
Planer	Bench or Standing	Electric	Sharp cutting heads-serious lacerations, minor amputations Rotating horizontal parts-minor entanglement Flying objects-eye, face, skin injuries	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	Adjustable entry/feed Cutting head	Push sticks Outfeed support Hearing protection for high noise planning
Radial Arm Saw	Bench	Electric	Sharp cutting blade-serious lacerations and amputations Flying objects-eye, face, skin injuries Rotating shaft/blade-minor entanglement	Anti-restart	E-stop, accessible single action hand switch, or foot switch	Top enclosed blade cover Blade (self-adjusting)	Auto retraction Fence Clamps Faceshield if excessive flying objects expected
Sander,Belt (vertical or horizontal)	Bench or Standing	Electric	Flying objects-eye, face, skin injuries Rotating pulleys, belts- entanglement Pinch points-crushing, bruising	Anti-restart	E-stop, accessible single action hand switch, or foot switch	Pulleys Rollers (both sides) Area below tool rest	Tool rest
Sander, Wheel	Bench or Standing	Electric	Flying objects-eye, face, skin injuries Rotating pulleys, belts entanglement Pinch points-crushing, bruising	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	Pulleys Side	Tool rest

Tool Type	Size/Style	Power	Potential Hazards	Power Controls	Emergency Stopping	Shields and Guards	Other Protective
							Measures
Saw, Miter/Compound Miter Chop-Style Saw	Bench	Electric	Sharp cutting blade-lacerations, amputations Rotating blade-minor entanglement Flying objects-eye, face, skin injuries Heat/sparks-burns, fire	Finger/constant pressure switch		Blade (self-adjusting)	Auto return Fence Clamps
Shaper/Inverted Router (Table)	Bench or Standing	Electric	Sharp cutting tool-lacerations, minor amputation Rotating tool-minor entanglement Flying objects-eye, face, skin injuries	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	Cutting tool guard	Fence Pushsticks
Shear/Cutter	Bench or Standing	Manual	Sharp cutting blade-serious lacerations, amputations Caught between-crushing			Blade	Warning label
Table Saw	Contractor or Full/Panel	Electric	Sharp cutting blade-serious lacerations or amputation Rotating blade-minor entanglement Flying objects-eye, face, skin injuries	Anti-restart for wood	E-stop, accessible single action hand switch, or foot switch	E-stop	

Shop Inspec	tion Checklist				Environmen	tal Health & Safe	ety		
Location:	Date:				Smith 103				
Shop Supervisor:	Inspector:				774-7398				
Department:									
						STAT	JS	,	
ADMINISTRATIVE		YES	NO	N/A	IN	DISAGREE	SEEKING	OTHER	
					PROGRESS	WILL NOT	FUNDING	(EXPLAIN)	
						COMPLETE			
1. Are training records maintained to indicate which emplo	yees are trained and qualified								
to use each power tool, piece of equipment, or machine?									
CORRECTIVE ACTION: Establish a training file. Prohibit per	sonnel from using power tools								
and equipment that they have not been trained on.									
Completion Date:									
2. Is an operator's manual, Job Safety Analysis, or other write	tten safe operating								
procedure(s) available for each power tool, piece of equipm	ent, and machine?								
CORRECTIVE ACTION: Obtain operator's manuals from the	manufacturer, or write safe								
operating procedures for each power tool, piece of equipm	ent, and machine. Contact								
Environmental Health & Safety at 774-3313 for assistance.									
Completion Date:									
3. Is the Central Michigan University Emergency Guideline	Quick Chart posted?								
CORRECTIVE ACTION: Post Emergency Guideline Quick Cha	rt in the shop(s) in a visible								
location, preferably by a telephone if available. Obtain quic	k charts from Environmental								
Health & Safety, 774-7398.									
Completion Date:									
4. Are building evacuation routes clearly posted, and are al	exits marked with exit signs?								
CORRECTIVE ACTION: Contact Environmental Health & Safe	ety, 774-7398 for assistance.								
Completion Date:									
						STATI	JS		
HOUSEKEEPING		YES	NO	N/A	IN	DISAGREE	SEEKING	OTHER	
					PROGRESS	WILL NOT	FUNDING	(EXPLAIN)	
						COMPLETE			
1. Are work areas (including equipment and machinery) kep	ot clean and orderly, so as to								
prevent trip and fire hazards?									
CORRECTIVE ACTION: Include housekeeping as part of regu	Ilar shop activities (i.e. work is								
not finished until all tools and materials are put away, the w	ork area swept and waste is								
properly disposed of).									
Completion Date:									
COMMENTS:									

Shop Inspection Checklist					Environmen	nvironmental Health & Safety		
Location:	Date:				Smith 103			
Shop Supervisor:	Inspector:				774-7398			
Department:								
						STAT	US	
HOUSEKEEPING		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
2. Have employees been advised that they are not to consu	ime food or drinks in shop							
areas unless there is a designated clean area?								
CORRECTIVE ACTION: Prohibit consuming food or beverage	es in shop areas; post signs if							
necessary.								
Completion Date:								
3. Are floors and work surfaces clean and dry and/or made	slip-resistant?							
CORRECTIVE ACTION: Keep surfaces dry or install slip-resis	tant material on surfaces that							
cannot be kept dry. Contact Facilities Management 774-65	47 for assistance.							
Completion Date:								
4. Are there written procedures for immediate clean-up of all spilled materials?								
CORRECTIVE ACTION: Establish and enforce procedures for immediate clean-up of all								
spilled materials. Contact Environmental Health & Safety, 7	74-7398 for assistance.							
Completion Date:								
5. Dust collection system is installed and operable for all du	st generating tools and							
machinery.								
CORRECTIVE ACTION: Install/repair system if possible. If d	ust collection system is not							
employed, all horizontal surfaces must be kept free of dust	accumulation to less than 1/16							
of an inch (1.6mm)								
Completion Date:								
6. Do all work areas have adequate ventilation, particularly	for hazardous operations (i.e.							
welding, soldering, spray coating, using solvents)?								
CORRECTIVE ACTION: Contact EHS 774-7398 to have ventil	ation evaluated if there is a							
concern. Provide additional exhaust ventilation for operation	ons that create dust, fumes,							
mists, or vapors.								
COMMENTS:								

Shop Inspec	tion Checklist	Environmental Health & Safety							
Location:	Date:				Smith 103				
Shop Supervisor:	Inspector:	spector: 774-7398							
Department:									
						STAT	US		
HOUSEKEEPING		YES	NO	N/A	IN	DISAGREE	SEEKING	OTHER	
					PROGRESS	WILL NOT	FUNDING	(EXPLAIN)	
						COMPLETE			
7. Do all work areas have adequate illumination?									
CORRECTIVE ACTION: Contact Environmental Health & Safe	ety, 774-7398 to have lighting								
evaluated if there is a concern. Contact Facilities Managem	ent, 774-6547, to repair								
broken lighting.									
Completion Date:									
8. Is there a procedure for removing damaged, broken, ung	uarded tools, or equipment								
from service?									
CORRECTIVE ACTION: Establish procedures such as using "out of service" tags to identify									
and prevent the use of dangerous items.									
Completion Date:									
9. Storage areas are easily accessible and organized with no	protruding items/clutter.								
CORRECTIVE ACTION: Establish and enforce procedures for	r keeping storage areas neat								
and organized.									
Completion Date:									
10. Trash recepticles are not overflowing.									
CORRECTIVE ACTION: Establish and enforce procedure for	ensuring trash is emptied								
regularly.									
Completion Date:									
11. All exits and passageways are unobstructed.									
CORRECTIVE ACTION: Establish and enforce procedures for	r keeping exits and								
passageways unobstructed.									
Completion Date:									
COMMENTS:									

Date: Smith 103					-	
Inspector: 774-7398						
]			
				STAT	US	
YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
y stored.						
ch use and damaged						
		ļ		STAT		
YES	NO	N/A	IN	DISAGREE	SEEKING	OTHER
			PROGRESS	WILL NOT COMPLETE	FUNDING	(EXPLAIN)
ly labeled. Clear any						
able.						
dentifiable. Clear any						
unch-dated.						
-7398 if they have not tes less than fully						
	1	1	11		1	1
	ector: YES rly stored.	YES NO rly stored.	YES NO N/A rly stored.	YES NO N/A IN PROGRESS rly stored. each use and damaged YES NO N/A YES NO N/A PROGRESS arly labeled. Clear any Image: Clear any ridentifiable. Image: Clear any punch-dated. Image: Clear any Punch-dated. Image: Clear any Image: Clear any Image: Clear any Image: C	Progress Transition YES NO N/A IN PROGRESS WILL NOT COMPLETE Statt Statt Statt Statt Statt PROGRESS WILL NOT COMPLETE Statt Stat <td>Progress Status YES NO N/A IN PROGRESS WILL NOT COMPLETE SEEKING FUNDING rly stored. IN IN aach use and damaged IN IN YES NO N/A PROGRESS WILL NOT COMPLETE YES NO N/A PROGRESS WILL NOT WILL NOT FUNDING FUNDING Arly labeled. Clear any IN Fiable. IN Fidehle. IN Punch-dated. IN 4-7398 if they have not cates less than fully IN</td>	Progress Status YES NO N/A IN PROGRESS WILL NOT COMPLETE SEEKING FUNDING rly stored. IN IN aach use and damaged IN IN YES NO N/A PROGRESS WILL NOT COMPLETE YES NO N/A PROGRESS WILL NOT WILL NOT FUNDING FUNDING Arly labeled. Clear any IN Fiable. IN Fidehle. IN Punch-dated. IN 4-7398 if they have not cates less than fully IN

Shop Inspec	tion Checklist				Environmental Health & Safety			
Location:	Date:				Smith 103			
Shop Supervisor:	Inspector:	774-7398						
Department:								
						STAT	US	
FIRE/EMERGENCY SAFETY		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
4. Emergency eyewashes/showers for the shops are tested tests documented.	/flushed monthly, with the							
CORRECTIVE ACTION: Contact Environmental Health & Safety, 774-7398 for assistance. Completion Date:								
5. Eyewash and shower station(s) are free of obstructions that would prevent quick access by someone temporarily blinded.								
CORRECTIVE ACTION: Remove all obstructions from emergency eyewashes and showers. Completion Date:								
6. Flammable materials are stored in approved safety containers or safety cabinets.								
CORRECTIVE ACTION: Ensure that all flammable materials are stored in approved safety								
containers or cabinets. Prohibit storage of flammable mate	rials outside safety containers							
or cabinets.								
Completion Date:								
7. Flammable gas cylinders and oxygen cylinders are separa	ited by a fire-rated wall or at							
least 20 ft.								
CORRECTIVE ACTION: Separate flammable gases from oxyg greater than 20 ft. Temporary storage of welding carts with permitted.	en by a fire wall or a distance oxygen and acetylene is							
Completion Date:								
8. Are covered metal containers used for oily and paint soa	ked waste?							
CORRECTIVE ACTION: Ensure that covered metal container	s are provided and used for							
the disposal of oily and paint soaked rags.								
Completion Date:								
COMMENTS:								

Shop Inspect	ion Checklist				Environmen	tal Health & Saf	ety	
Location:	Date:				Smith 103			
Shop Supervisor:	Inspector:			774-7398				
Department:								
						STAT	JS	
FIRE/EMERGENCY SAFETY		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
9. Combustible materials are kept at least 35 feet away from fireproof covering is provided.	n welding operations, or							
connective action: Move combustible material at least s operations or place fireproof covering over them. Completion Date:	is feet from weiding							
						STAT	JS	
ELECTRICAL SAFETY		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
1. Electrical panels are accessible, covers in place on recept circuit breakers are clearly labeled.	icles, boxes, switches, and							
CORRECTIVE ACTION: Ensure that there is a minimum of 36 all electrical panels, and label each circuit breaker with its up Completion Date:	inches of clearance in front of se.							
2. Shop equipment and power tools are properly grounded Grounding pins have not been removed, and 3-pin to 2-pin a	or double insulated. adapters are not being used.							
CORRECTIVE ACTION: Inspect all electrical connections for Check manufacturer specifications to ensure that power too grounded. Completion Date:	grounding plugs or wires. Is are double insulated if not							
3. Extension cords and power strips are in good condition (i wiring), used only as temporary wiring (<30 days), and are n	.e., no breaks or exposed ot connected in series.							
CORRECTIVE ACTION: Remove all extension cords connected power strips, and permanent use extension cords. Contact 6547 to arrange for installation of permanent wiring if need electrical cords that are not in good condition. Completion Date: COMMENTS:	d in series, permanent use Facilities Management, 774- ed. Dispose of or repair all							

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						STAT	US	
ELECTRICAL SAFETY		YES NO N/A IN DISAGREE SEEKI PROGRESS WILL NOT FUND COMPLETE				SEEKING FUNDING	OTHER (EXPLAIN)	
4. Electrical tools and appliances used in or near wet areas with Ground Fault Circuit Interrupters (GFCIs).	such as sinks) are protected							
CORRECTIVE ACTION: Install GFCI protection in/near wet ar attached) GFCI for locations where permanent GFCI outlets available at local hardware stores. Completion Date:	eas. Use an in-line (plug are unavailable. These are							
5. Campus lockout/tagout program is in place (where require energizing of equipment, machines, or electrical systems that or undergoing maintenance.	red) to prevent accidental at are being repaired, adjusted,							
CORRECTIVE ACTION: Institute a lockout/tagout program. & Safety, 774-7398 for assistance. Completion Date:	Contact Environmental Health							
						STAT	US	
PERSONAL PROTECTIVE EQUIPMENT		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
1. Employees are provided with eye and face protection such shields where needed.	h as safety glasses and face							
CORRECTIVE ACTION: Provide and ensure the use of approvemployees and visitors upon entry to shop area(s). Ensure twhen flying materials could cause injury to the face. Completion Date:	ved eye protection for all shop hat face protection is used							
COMMENTS:								

Shop Inspect	ion Checklist				Environmen	tal Health & Saf	ety	
Location:	Date:		Smith 103					
Shop Supervisor:	Inspector:				774-7398			
Department:								
						STAT	US	
PERSONAL PROTECTIVE EQUIPMENT		YES	NO	N/A	IN PROGRESS	IN DISAGREE SEEKING OT PROGRESS WILL NOT FUNDING (EXF COMPLETE		
2. Employees who work around inhalation hazards (i.e., che or dust) have been monitored to determine whether they no Respiratory Protection Program.	mical vapors, welding fumes, eed to be enrolled in the							
hazard assessments and determine the necessity for respiratory of the second se	tory protection, or ventilation							
3. Employees who work in noisy areas have been monitored need to be enrolled in the Hearing Conservation Program.	d to determine whether they							
CORRECTIVE ACTION: Contact Environmental Health & Safe employee noise monitoring and determine the necessity for hearing protection to employees who request it. Completion Date:	ety, 774-3313 to provide hearing protection. Provide							
				·		STATUS IN DISAGREE SEEKING OT		•
HAND AND PORTABLE POWER OPERATED TOOLS		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
1. All tools are free of defects (such as cracked handles) that	t make them unsafe.							
CORRECTIVE ACTION: Remove defective tools from service. Completion Date:								
2. All rotating and or moving parts of equipment or tools ar grinder wheel).	e guarded (i.e. hand-held							
CORRECTIVE ACTION: Ensure that all guards are in place an Completion Date:	d used during tool operation.							
COMMENTS:								

Shop Inspect	tion Checklist				Environmental Health & Safety			
Location:	Date:				Smith 103			
Shop Supervisor:	Inspector:				774-7398			
Department:								
						STAT	US	
SHOP EQUIPMENT AND MATERIALS		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
 Shop rules have been discussed with all employees who tools/equipment, etc.: a. Long hair is tied back and or up. No long ponytails throtating equipment. b. No loose clothing; long sleeves are rolled to above throtadges that hang from the neck. c. No loose, dangling jewelry, bracelets, etc. 	work with the at can become entangled in e elbows. No neckties or ID							
CORRECTIVE ACTION: Train employees on the shop rules/h Completion Date:	azards.							
2. Abrasive wheel grinders are equipped with a work rest are wheel. The tongue is adjusted to within 1/4" of the wheel. end, nut, and flange projections, as well as the periphery, of performed. Spindle speed permanently marked on machine cracked/broken wheels.	djusted to within 1/8" of the Side guards cover the spindle ther than where work is to be and legible. No							
CORRECTIVE ACTION: Prohibit the use of wheel grinders un guards are installed and or properly adjusted. Completion Date:	til work rests and proper side							
3. Radial arm saws are provided with a spreader and autom CORRECTIVE ACTION: Prohibit the use of radial arm saws u	atic return. ntil spreaders and automatic							
returns are installed. Completion Date:								
4. Table saws have a hand guard, spreader, and anti-kickba applicable. Push sticks are available for use as needed.	ck device for use when							
CORRECTIVE ACTION: Prohibit the use of table saws until a installed. Provide pushsticks. Completion Date:	nti-kickback devices are							
COMMENTS:				•				1

Shop Inspect	tion Checklist				Environmen	tal Health & Saf	ety	
Location:	Date:	Smith 103						
Shop Supervisor:	Inspector:				774-7398			
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						STAT	US	
SHOP EQUIPMENT AND MATERIALS		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
 All pieces of equipment and machinery are provided with parts, nip points, and v-belts must be guarded). CORRECTIVE ACTION: Prohibit the use of equipment and m guards are installed. 	a adequate guarding. (Rotating achinery until adequate							
Completion Date: 6. All portions of band saw are enclosed except working po guide within 1/4" of work piece. Band saw wheel is enclose corresponds with material being worked. CORRECTIVE ACTION: Adjust sliding blade guide. Enclose a	rtion of blade. Sliding blade d. Blade type and speed							
Ensure wheel is enclosed with solid material, wire mesh, or Completion Date:	perforated material.							
 All pulleys on Disc/Belt Sander are enclosed including sid controls are guarded to prevent accidental actuation. Edges guarded. Guards in place to prevent hands/fingers from con good condition-not ripped or torn. 	es and periphery. Operating s of unused run of the belt are ntact with nip point. Belt in							
CORRECTIVE ACTION: Ensure pulleys are enclosed. Ensure guarded. Ensure edges of unused belt are guarded. Ensure contact with nip point. Replace belt if necessary. Completion Date:	operating controls are guards are in place to prevent							
8. Opening between edge of rear table and cutter head of J Push blocks are used when jointing short or narrow stock. A sections of the cutting head on the working side. Guard is e fingers/hands from the revolving knives.	ointer is not more than 1/8". Automatic guard is covering all ffective in keeping							
CORRECTIVE ACTION: Ensure opening is not more than 1/8 narrow stock. Ensure guards are in place and properly cove effective in preventing injuries. Completion Date:	". Use push blocks for short or ring all sections, and is							
COMMENTS:								

Shop Inspec	tion Checklist				Environmen	tal Health & Saf	ety		
Location:	Date:				Smith 103				
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Department:]				
						STAT	US		
SHOP EQUIPMENT AND MATERIALS		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)	
9. Brush(es) are available to remove stock shavings and chi	ps. Compressed air is not used								
to clean person or clothing.									
CORRECTIVE ACTION: Provide brush(es) for removing stock	shavings and chips. Prohibit								
use of compressed air for cleaning.									
Completion Date:									
10. The chuck key for a metal lathe shall be either of the fo	llowing: Counterweighted to								
return it to storage position, or interlocked to prevent the c	huck from being power driven								
when the key is in the chuck, or is spring loaded to eject it fi	rom the chuck.								
CORRECTIVE ACTION: Ensure that the metal lathe has a MI before further operation is allowed. Completion Date:	OSHA approved chuck key								
11. Pieces of equipment or machinery are securely anchore	ed to the floor or a bench.								
CORRECTIVE ACTION: Ensure equipment or machinery that	can move from its operation								
due to vibration, or the vibration of nearby equipment or m	achinery is securely anchored.								
Completion Date:									
12. The blades of the shear are guarded. The hold down de with an adjustable barrier guard.	evices of the shear are guarded								
CORRECTIVE ACTION: Prohibit use of shear until all guardir Completion Date:	ng is installed.								
13. Hand/foot controls should be enclosed or shrouded to the shear.	prevent accidental recycling of								
CORRECTIVE ACTION: Enclose hand/foot controls to elimin Completion Date:	ate accidental recycling.								
COMMENTS:			·		· · · ·			<u>.</u>	

Shop Inspect	tion Checklist				Environmen	tal Health & Saf	ety	
Location:	Date:				Smith 103			
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SHOP EQUIPMENT AND MATERIALS		YES NO N/A			IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
14. Area behind the shear where sheared debris drops is ba	rricaded or restricted.							
CORRECTIVE ACTION: Barricade or restrict the area behind	the shear to prevent sheared							
debris from injuring a passerby.								
Completion Date:								
15. Chuck key is removed from the chuck of the drill press k	pefore operation. A jig, vice,							
clamps, or other fixture is used to secure stock to the bed.								
CORRECTIVE ACTION: Train employees to remove chuck ke	y before operation to prevent							
injuries from a projected key. Ensure that stock is secured/s	stabilized, and not being held							
down by the operator's hand.								
Completion Date:								
16. Drill Press is securely anchored to the bench or floor. P	ulleys and belts are guarded.							
Drill press table is free of tools and other materials.								
CORRECTIVE ACTION: Ensure that drill press is securely and	hored, pulleys and belts are							
guarded, and drill press table is clear.								
Completion Date:								
17. Paint spray booth has up-to-date ventilation testing and	demonstrates that the							
average air velocity over the open face of the booth is not le	ess than 100 linear feet/min.							
CORRECTIVE ACTION: Contact EH&S, 774-3313 for assistan	ce with testing or ventilation							
upgrades. Ensure that filters are changed regularly.								
	1 I 111 I III							
18. There is at least 3 feet of clear space between storage a	ind combustible construction.							
Inere is no open flame or spark producing equipment in the	e spraying area, nor within 20							
	ulu ava du sin a sau in as sat							
CORRECTIVE ACTION: Separate storage, open name or spa	rk producing equipment							
Completion Date:	ig area.							
		1	1	1	1		1	l

Shop Inspect	tion Checklist				Environmen	tal Health & Saf	ety	
Location:	Date:				Smith 103		-	
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Department:]			
						STAT	US	
WELDING		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)
1. Welding area is isolated from other areas of the shop wit welding areas. Welding power and ground cables are sized required. Welding cable and electrode holder are in good c connections are not frayed, cables and insulation are not da	h signs posted designating properly for the current ondition (i.e. electrical maged, cut, nicked, etc.).							
CORRECTIVE ACTION: Locate welding equipment, machine so that they do not present a hazard to personnel. Post sign the equipment properly. Repair or replace damaged parts Completion Date:	es, cables, and other apparatus age. Have an electrician wire before further use.							
2. Welders are provided with appropriate personal protecti protection, dry insulating gloves, flame resistant clothing or standing on while welding).	ve equipment (i.e., eye leathers, dry rubber mat for							
CORRECTIVE ACTION: Ensure that welders are provided with protective equipment. Completion Date:	h and use the proper personal:							
3. Welders are provided with a fire extinguisher within ten	feet of their working area.							
CORRECTIVE ACTION: Ensure that there is an ABC fire exting inspection tag within ten feet of welding areas. Completion Date:	guisher with a current							
4. All compressed gas cylinders are adequately secured with to keep the cylinder(s) from falling if bumped. All compress when not in use.	n non-combustible restraints ed gas cylinders are capped							
CORRECTIVE ACTION: Contact EHS, 774-7398 for advice on cylinders. Train shop employees to cap compressed gas cyli Completion Date:	how to properly secure nders when not in use.							
COMMENTS:								

Shop Inspect	ion Checklist				Environmental Health & Safety				
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Department:									
						STATUS			
HAZARDOUS MATERIALS		YES	NO	N/A	IN PROGRESS	DISAGREE WILL NOT COMPLETE	SEEKING FUNDING	OTHER (EXPLAIN)	
1. Employees have been trained in Hazard Communication	and are familiar with the								
contents of the Safety Data Sheets (SDS) for the chemicals in	n their shop and know where								
to locate them.									
CORRECTIVE ACTION: Contact EHS 774-3313 for assistance	and training if necessary to								
ensure that all employees are trained on the chemicals and	their use in the shop(s).								
Completion Date:									
2. All containers of chemicals are labeled with the contents	and primary physical & health								
hazards.									
CORRECTIVE ACTION: Properly label all chemical containers	s, including stored and								
temporary containers. Contact EHS, 774-3313 for assistance	e, if necessary.								
Completion Date:									
3. Chemicals are stored according to compatibility (i.e., oxid	lizers separate from								
flammables).									
CORRECTIVE ACTION: Contact EHS 774-3313 for assistance	with chemical storage and								
segregation.									
Completion Date:									
4. EHS has an updated chemical inventory (within last 12 m	onths) for the shop(s).								
CORRECTIVE ACTION: Contact EHS, 774-3313 for assistance	and forms.								
Date Completed:									
COMMENTS:									

Please review the report and take appropriate actions.

Place an X in the appropriate status column and return a signed copy of the report to Environmental Health & Safety: Caren Blanzy - Smith 103 by:

Signature: ______

Date: