Safety

ROBOTICS LAB Student Safety Inspection Sheet

Break group into teams and complete this safety inspections sheet for the lab. Circle the correct response. S – Satisfactory U - Unsatisfactory NA - Not Applicable.

On the back of the sheet identify any unsatisfactory conditions and suggest ways to improve the facility.

General Facility Safety

1.	S	U	NA	One instructor has the overall responsiblity for each major shop facility.
2.	S	U	NA	Each major shop facility can be locked separately.
3.	S	U	NA	Provisions have been made for keeping inappropriate garments and other materials out of lab areas.
4.	S	U	NA	Good housekeeping standards are observed.
5.	S	U	NA	Student educational cleanup program is backed up daily with complete custodial services.
6.	S	U	NA	Waste is collected daily and disposed of by the custodian.
7.	S	U	NA	Floors are maintained in a condition conducive to safe practices with nonskid surfaces provided around machines.
8.	S	U	NA	Designated safety zone areas are provided around all dangerous work areas.
9.	S	U	NA	Aisles are clear of protruding materials.
10.	S	U	NA	Room furniture and equipment are arranged for optimum safety.
11.	S	U	NA	Non-glare lighting is provided for all work areas according to state regulations.
12.	S	U	NA	Stairways within existing laboratories have safe tread and rise with unobstructed access and with approved railings.
13.	S	U	NA	Railings and treads are color coded.
14.	S	U	NA	Two widely separated marked exits are available from each major laboratory.
15.	S	U	NA	Facilities are light, pleasant, clean and conducive to good instruction.
16.	S	U	NA	Machine operation regulations and safety procedures are posted conspicuously near areas of operation.
17.	S	U	NA	Parts of machines and equipment needing special attention or caution are painted brightly with correct color.
18.	S	U	NA	Machines and work stations are located in relationship to the amount of supervision required
19.	S	U	NA	Machine location has been determined by needed operator space requirements and process compatibility.
20.	S	U	NA	Health hazards were considered in plant design to minimize injuries from excess heat, noise, fire, and fume conditions.

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Storage Facility Safety

21.	S	U	NA	Storage racks and shelf are designed and constructed to meet storage requirements.
22.	S	U	NA	Materials are stored in a safe manner.
23.	S	U	NA	Students and instructors are protected from protruding materials and sharp edges.
24.	S	U	NA	All flammables and combustible liquids, toxics, and caustics are stored securely in proper containers, identified by name and degree of hazard.
25.	S	U	NA	Fire approved storage cabinets are provided for all flammable and combustible liquids.

Electrical Safety

26.	S	U	NA	All power and wiring is installed and maintained in accordance with national electrical code and -
a.	S	U	NA	a. Switches are enclosed.
b.	S	U	NA	b. Circuits are identified.
C.	S	U	NA	c. All power cords are of proper length and determined by gauge and load.
d.	S	U	NA	d. Power supplies are provided with overload protection.
e.	S	U	NA	e. Lockouts are provided.
27.	S	U	NA	All outlets and machines are grounded.
28.	S	U	NA	All extension cords are provided with three pronged plugs, except those which are double insulated.
29.	S	U	NA	Readily accessible individual "off" and "on" controls are installed on all machines as well as in the room power control panel.
30.	S	U	NA	A master control "Panic Stop System" is available and conveniently located in each laboratory to shut off power.
31.	S	U	NA	Laboratory power panels have clearly identified individual power switches for each machine.
32.	S	U	NA	All hand held portable power tools are equipped with "dead man" controls only.
33.	S	U	NA	Regulators, stands and pilot lights are provided for all electrical soldering irons.
34.	S	U	NA	All electrical apparatus in areas of concentrated vapors are vapor proof.

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Equipment Safety

35.	S	U	NA	Safety instructions for each machine are posted.
36.	S	U	NA	Machines are in safe operating condition at all times.
37.	S	U	NA	"Out of order" signs are secured to machines not in working condition and the power panel switch is in the "off" position.
38.	S	U	NA	All machines are securely fastened in place.
39.	S	U	NA	Machines and equipment are provided with guards meeting industrial standards and guards are in proper position for safe machine operation.
40.	S	U	NA	Equipment control switches are readily accessible to the operator while he/she is in a normal operating position.
41.	S	U	NA	A positive "off" position switch is located on each machine.
42.	S	U	NA	Proper tools and materials are available for machine cleaning.
43.	S	U	NA	Hand tool equipment is stored with sharp cutting edges protected.
44.	S	U	NA	Hand tools are properly maintained and sharp.
45.	S	U	NA	Bench tops are appropriate for the planned activities.