

Important Instructions for Students:

1. Always wear uniform in workshop.
Never wear loose clothes.
2. Never walk bare foot inside the workshop.
3. Never operate any machine unless you know how to operate it.
4. Never touch moving parts, belt or rotating tool.
5. Defective tools and equipments should not be used.
6. Never touch any switch, nob or lever of the machine without knowing it.
7. Silky clothes catches fire easily never come to workshop wearing such clothes.
8. Don't touch any live wire.
9. In case, of any fire, the electric supply should be disconnected.

10. Always keep in mind the position of fire extinguisher and first aid.
11. Always read chart first.
12. Make sure that your work is not affecting anybody.
13. Always try to learn from instructions carefully.
14. Always keep your mind on job.

LAB ETHICS

Do's for lab

- Do take interest in your Job.
- Do learn your shoulder's responsibility.
- Do keep your mind on the Job.
- Do become aquainted with the function.
- Do keep your machine lubricated.
- Do keep tools properly.
- Do clean the tools after finishing work.
- Do wear uniform in workshop.

Don'ts for lab

- Don't wear loose fitting clothes while operating any machine.
- Don't be afraid to wear goggles.
- Don't Touch any moving parts.
- Don't take measurement in haphazard way.
- Don't waste time working on finer degree.
- Don't drop the tools.
- Don't touch the switch of machine, till you are fully aware of function.

FIRE PREVENTION :

Fight or flee

Don't fight the fire if,

There is considerable heat.

There is significant flame.

There is any possibility that you will be trapped in fire.

CALL THE FIRE DEPARTMENT :

you should or someone should call the fire department or fire emergency number before fighting the fire.

CHOOSE THE CORRECT EXTINGUISHER

PULL - Point the nozzle away from you.

AIM - Hold the extinguisher upright, come at the base of the fire.

SQUEEZE - Remember the extinguisher comes out of the nozzle, it can also with considerable and node be prepared.

SWEEP - Sweep the nozzle from side to side driving the fire back. As the fire is closest to you is extinguished. You may move but with the sweeping

Mechanical Engineering Department Workshop Theory :

Safety on welding machines: Safety glasses must be worn all the time during work. Jewellaries must be worn, Appropriate footwear must be worn. Gloves must be worn when you are working. Use a leather guard if possible. Don't take any measurement while the machine is working. Stop the machine and then take the measurement. Use proper feed and depth of cut. Before taking any cut, the jaw should be clamped. Clear the cutting while the machine is in position. Don't use machine table as a rough space. It can fall down and get injured while the machine is working.

After the Lab :

Recharge the fire extinguisher, no matter as long as it is used, it needs to be properly checked and recharged. If the fire extinguisher is not rechargeable get a replacement.

Safety on Drilling Machine :

1. Safety glasses must be worn at all time. Appropriate footwear with substantial upper must be worn.
2. Ring & Jewellery must not be worn. Close fitting clothes must be worn.
3. Gloves must be worn while operating the machine.
4. For deep drilling frequently clean it. Never attempt to drill it with executive pens.
5. Clean sheets and sleeves before drilling hole with taper shank drill.
6. While using cooling fluid or lubricant directly from the machine. Don't fix heavier job

then recommended for the machine.
Check the job for proper clamping.

MACHINE HANDLING SAFETY MEASURES :

LATHES : All control must be in natural position before the lathe is started, all isolated switch must be off while adjustments are made to be machine. Eg. where machine is not running dwarf.

Clamp the job firmly on the table before starting the machine and where necessary to provide safety support to prevent vibration.

The use of correct type of handling equipment when heavy unferred are involved and the use of chip guard when a fly cutter is used.

METAL WELDING GUILLOTINES :- Guards must be provided to prevent the operator to get injured from the blade or clamp for either from front or rear. One person should be near the machine. Only one person should be provided to

allowed to operate the machine - Only one person should be at a time. When long material is being cut and can't be supported by the work table additional support, should be provided. A band operated guillotine should be made in Operator which not in use either by removing the handle or by the use of blacking. Waste-soap metal provides a hazard for the hand and protective glasses should be worn when the metal is handled.

A contrary should be provided to the white material from the guillotines.

Clamp the job or vice firmly on the table before starting the machine and where necessary to provide steady support to prevent vibration.

The use of the current type of handling equipment when heavy cutting tools are invested and the use of chip guard when a fly cluster is used.

SAFETY ON THE SURFACE GRINDER :-

Wear appropriate safety glass.

Ensure that the grinder has a start stop button, within easy reach of the operator. Follow the manufacturer instruction for moving grinder and which keeps you off the wheel press.

Ensure that the wheel guard covers one half of each grinding wheel.

Take off any surrounding on the surface of work that is placed from magnetic chunk near the magnetic chunk with a clothes and wipe your hand.

Keep the floor around the grinder clear and free of air and grease.

Do not run grinder wheel. Do not clean the magnetic chunk or mount or remove work until the wheel has completely stopped or not grind without proper ventilation.