

11. Machine Tools

< General Information >

- (1) An RCNP machine tool should be set up in a metal working room and RI metal working room.
- (2) Students must be issued a “Permit for Student Shop Use” at the student shop.
- (3) Machine tools should only be used after fully understanding the hazards and proper operation of such equipment and the use of protective devices.

The handling of machine tools

*Please read the 'Manual of Use' carefully.

Name of Tool	Notes
Lathe	<ul style="list-style-type: none">• Materials and bits should be firmly secured.• After adjusting the chuck, remove the chuck wrench immediately.• Do not remove dust by hand.• A bit must be changed only after stopping the main shaft.
Milling Machine	<ul style="list-style-type: none">• Materials and blades must be firmly secured.• Dust must be removed by brush after stopping the main shaft.
Drill Press	<ul style="list-style-type: none">• Chuking of a drill must always be done correctly.• Material must be firmly secured by vice.• Be careful at the beginning and the end of cutting.• Do not use army gloves
Contour Machine	<ul style="list-style-type: none">• Be careful of your fingertips during foward adjustment of materials
Automatic Band Sawing Machine	<ul style="list-style-type: none">• Materials must be firmly secured.• Confirm that the cutting oil is flowing properly.
Grinder	<ul style="list-style-type: none">• Confirm any irregularities in the grinding wheel before use• Do not stand in front of the grinding wheel when turning the power on.• Use only hardened materials.• Grinding materials such as aluminum and resin are prohibited.

RI Metal Working Room

1. Purpose:

When you process activated substaces in the RI metal working room, please contact the radiation control room and follow their instructions.

2. Workers:

- (1) Workers must submit an 'Application for Entry to the RI Metal Working Room' to the radiation control room to gain entry.

(2) The key to the RI metal working room is managed by the radiation control room.

(3) Bear in mind the following points :

- 1) A worker must wear the appropriate clothing and footwear.
- 2) Please turn on the air conditioner before entering a room.
- 3) Please wear a protective mask or goggles, if necessary.
- 4) Do not wear gloves while operating machines except when instructed by the supervisor.
- 5) When a radiation monitor is activated, a worker must promptly cease all work and contact the supervisor.
- 6) In the case of damage to machinery, contact the supervisor promptly and follow his instructions.

(4) Inspection upon completion of work.

- 1) The waste caused by experiments or any work should be placed into it's appointed container.
- 2) The person doing the work must report to the supervisor immediately after the work is completed.