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-ABSTRACT

Designed for use in bilingual education programs, this industrial arts safety guide presents guidelines for developing a student safety program and three sections of shop safety practices in both English and Chinese. Safety program format, safety COmmittees, safety inspection, and student accident investigation are discussed in the section on developing a student safety program. Set forth in the section on general safety practices are safety instructions for all areas of industrial arts; safety rules for machine tools, hand tools, and portable electric hand tools: housekeeping: back strains and proper lifting; safe lifting; materials handling; personal practices and conduct; and fire control. Safety procedures relating to automotive and power mechanics; compressed gas: drafting room: dusts, fumes, and combustible materials: foundry practices: flammable and combustible liquids: electricity/electronics; graphic arts; soldering; and storage batteries are covered. Specific machines examined in the section on safety procedures for machines include buffers, drill presses, forges, grinders, jointers, lathes, milling machines; planer-surfacers; presses, sanders, saws, metal shapers, shears, sheet metal machines, and welders. (Corresponding bilingual guides containing material in Korean, Thai, Cambodian, Japanese, and Ilokano are available separately through ERIC--see note.) (HN)

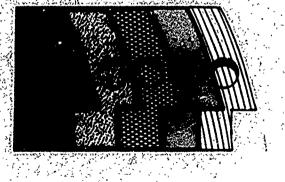
# **Bilingual Education Resource Series**

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# Industrial Arts Safety Guide

ED205710





US DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

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Dr. Frank B. Brouillet, State Superintendent of Public Instruction Olympia, Washington 98504

#### INDUSTRIAL ARTS SAFETY GUIDE

#### CHINESE VERSION

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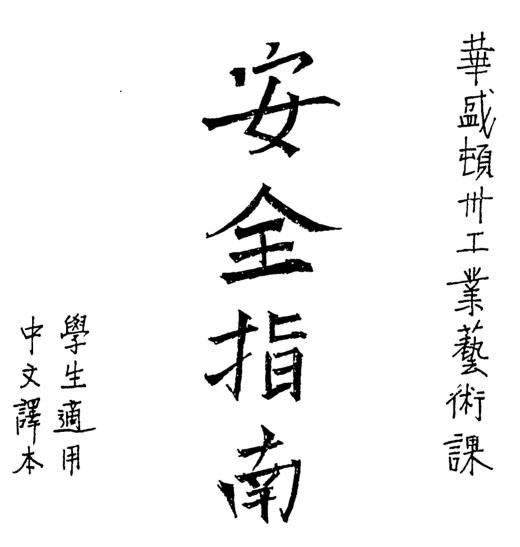
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# INDUSTRIAL ARTS SAFETY GUIDE

version



## SEATTLE PUBLIC SCHOOLS

**Student Section** 



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Full Text Provided by ERIC

#### V



意外事件之預防毫無疑問地始目「穴馬」時期,雷人類第一次發現因不安全 情況或缺乏知認而被傷害時.例如:先民發党火美不今在就中或潮濕地方 蔓近;他們今用棍子從火中移身物品,如他們要操作熱物時大概今用動物 度送的手窖,這樣才可免於受烧傷.

自即時間始各種預防在工作環境中受得的才法都已实施。

近年末研究菱現做成意外的原因人為因素比不安全情况更多意外的發生多是不安全情况加上不安全行動所致.甚警觉情况 潜反知道怎樣会受 信害者大概多不会發生意外.

安全是建立在自律上,安全不能没有它.不留心或攀动不能防止意外.有道理之知识及簡单的自律可以防止意外.

在任何情况下安全第一」為最合適的口號。每個目擊过意外的人都知道在 任何活动時都要有安全的工作習慣、工作前不思考最做成意外的主因,常 常意外的做成是由於不当的操作工具。忽略工具或祝器以保养不用保護 才信、和不良或不伦心的工作環境

工業界区政府已经力的专消除可能令做成危险的情况,其很力加弱机器之工全保养及提供安工的工作環境.

如要預防意外对手中操作的物件要特别小心,在讀完比指商時脉令对操作的東西更為熟若及话养为安全的習慣.

7

記住 一 安全採诺你!

FRIC

卅音 EVANS 致学生信 ..... s-1.01

18-7-1 THIS TRANSLATION OF 7/21/78 SUPERSEDES ALL PREVIOUS TRANSLATION 譯文以英文原文為位語



Chinese Version



STATE OF WASHINGTON

OLYMPIA

DANIEL J. EVANS

To the Industrial Arts Student:

As a father, as well as the Governor of the State of Washington, I feel an obligation to write to each of you concerning the importance of safety. The work habits you will be taught in your Industrial Arts class can form the background for safe operation of hand and power tools throughout your life. The need for safety does not stop when you leave the Industrial Arts classroom. It should carry on to your work at home and later, on the job.

It is a waste of the potential of a young life to have a finger, hand or eye lost or mutilated because of a careless act. I hope you will all join me in a dedication to safety in your Industrial Arts classes as well as in the years to come.

Sincerely,

Daniel J. Evans Governor

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DJE:ss



## What have you got to lose?

#### Your eyes

Watching television A sunset A good book A friend's smile An attractive person

#### Your hands

A game of softball Buttoning your shirt Driving a motorcycle Holding hands with a special person

#### Your hearing

Laughter of a friend A bird at your window A rock concert The call of your name

#### Your back

Playing on the beach Getting into your car A day skiing Dancing A comfortable night's sleep

S-1.02

#### Your legs

A walk on the beach A game of tennis Running and hiking A bicycle ride

#### Your life

The remainder of today, every tomorrow. The entire rest of your life.

9

# NO TRANSLATION That's what you've got to lose!

# Student Safety Program

Organized safety programs are a good approach to reducing accidents.

There are many types of safety programs. The effectiveness of a good safety program is reflected in the reduction of accidents.

The program on the following pages has suggestions that can be used and/or modified to meet the needs of your school.

Safety Program FormatS-2.01
Safety Committee Minutes Form
Safety Inspection Check List
Accident Investigation Report



S-2.00

#### SAFETY PROGRAM FORMAT

#### Organization

Each Industrial Arts class should organize its own safety committee. There should be at least five student members on the committee; two members should be rotated each month. The committee should:

- Meet every two weeks; more often if the need arises. 1. 2.
- Review and approve the safety inspection report. 3.
- Review and discuss all safety recommendations. 4.
- Study the cause of accidents occurring since the last meeting. 5. Prepare minutes of the meeting and post them on the bulletin
- Maintain a permanent file of accident reports, minutes, and 6. other appropriate materials.
- Appoint a student safety inspector. 7.

#### Inspection

Inspection should be made prior to each safety committee meeting. The inspection and written report should reflect the conditions of the area -- housekeeping, fire prevention, first aid equipment, personal protection equipment, unsafe work activities, hazards and guarding needed. Recommendations should be made for corrections.

#### Education

A bulletin board should be used to alert the class to safe work habits. A member of the committee should post safety materials and minutes of the meetings. Classroom safety meetings should be encouraged with members of the committee participating as leaders.

#### Accident Reports

Accident reports are an essential part of a good safety program. They help to inform, educate, and remind people of what to look for in regard to accident prevention. They also provide a record of safety items and safety activities.

- A member of the committee should be assigned to complete 1. accident reports in addition to the instructor's report required by the School District.
- 2. When a student is injured or is directly responsible for a condition that could cause an injury, that student should be encouraged to cooperate with the committee and attend committee safety meetings.
- A member of the committee should be assigned to see that 3. action has been taken to prevent a similar accident from taking place in the future.

NO TRANSLATION S-2.01



SAFETY COMMITTEE MINUTES FORM

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Class	Date of Heating
Name and Title	Date of Meeting
Period	
	Time Closed
Instructor	
·	<del></del>
Nembers Present:	
Order of Business:	
1. Review of past recommendations	and action taken.
2. Review of accidents since last corrective measures.	meeting and suggested
3. Review of inspector's report.	
4. Discussion for improvement of the	he safety program.
5. Selection of chairman and new me	
	•
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(Use other side of sheet if necessary)

12

S-2.02

## STUDENT ACCIDENT INVESTIGATION REPORT

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Class	_PeriodRoom
Instructor's Name	ROOM
Name of Injured	Date & Time
Exact Location of Accident	Date & lime
Description of Accident*	
	· · · · · · · · · · · · · · · · · · ·
Indicate below with an "X" whether caused by one of the following:	r in your opinion accident was
PHYSICAL CAUSES	
<ul> <li>() Improper protection (personal or equipment)</li> <li>() Defective tools or equipment</li> <li>() Hazardous arrangement</li> </ul>	PERSONAL, CAUSES () Physical or mental defect () Lack of knowledge or skill () Wrong attitude
) Improper illumination ) Poor housekeeping ) Not listed - describe briefly*	<pre>( ) Use of intoxicants or drugs ( ) Not listed - describe briefly*</pre>
UNSAF	FE ACTS
<ul> <li>) Working without authority</li> <li>) Failure to secure or warn</li> <li>) Working at unsafe speed</li> <li>) Made safety device inoperative</li> <li>) Used unsafe equipment or hands instead of equipment</li> <li>) Not listed - describe briefly*</li> </ul>	<ul> <li>() Unsafe material handling</li> <li>() Took unsafe position</li> <li>() Worked on moving equipment</li> <li>() Horseplay</li> <li>() Did not use safe clothes or personal protective equipment</li> </ul>
TE: Make certain of names and description hospital, condition of injured, assi	ons of witnesses, injured sent to istance by others, etc.
tions taken to prevent a similar future a	
te of ReportSignat	ure
USE OTHER SIDE OF SHEET IF NECESSA	NRY.
. 13	

#### STUDENT SAFETY INSPECTION CHECK LIST

Class	_Period	Date
Hazardous conditions and unsaf tive action can be taken. Not causes, marked "X" on previous	e also whe	ther potential accident
( ) indicates Satisfactory	(X) i	ndicates Unsatisfactory
<ul> <li>A. FIRE PROTECTION <ol> <li>Extinguishing equipment(</li> <li>Exits, stairs and signs(</li> <li>Storage of flammable material()</li> <li>Mousekeeping</li> <li>Aisles, stairs &amp; floors()</li> <li>Storage &amp; piling of material()</li> <li>Wash &amp; locker rooms()</li> <li>Light and ventilation()</li> </ol> </li> </ul>	) 1. 2. 3. 3. 4. G. MAJ 1. 2. 3. 4.	LLETIN BOARDS Neat and attractive() Display changed regularly() Well illuminated() CHINERY Point of operation guards() Belts, pulleys, gears, shafts, etc() Maintenance & oil leakage() CHINERY
6() C. TOOLS 1. Power tools, wiring() 2. Hand tools() 3. Use & storage of tools()	1. 2. 3. 4.	Steam equipment() Air compressors() Gas cylinders and hoses() SAFE PRACTICES
4() D. PERSONAL PROTECTIVE EQUIPMENT 1. Safety glasses or goggles() 2. Face shields() 3. Gloves() 4. Respirators or gas masks() 5. Protective clothing() 6()	1. 2. 3. 4. 5. 6.	<pre>Improper lifting() Improper use of protective equipment() Horseplay() Running in aisles() Improper use of air hoses() Removing machine guards() Work on unguarded machinery()</pre>
E. MATERIAL HANDLING EQUIPMENT <ol> <li>Winches</li></ol>	1. 2. 3. 4. K. MIS 1.	AST AID First aid kits All injuries reportion () CELLANEOUS Acids and c () New procr
SIGNED	3.	Dusts,

. . .

USE OTHER SIDE OF SHEET FOR DETAILED COMMENTS . A RECOMMENDATIONS



# **General Safe Practices**

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Safety rules have been developed to alert you to unsale practices and conditions. These rules, in some cases, are common to all work. In other instances, they are specific to the particular task at hand.

It is important that you learn these rules and apply them to your Industrial Arts and other activities.

Safety Instructions for All Areas of Industrial Arts	S-3.01
Safety Rules for Power Tools	S-3.02
Safety Rules for Hand Tools	S-3.03
Safety Rules for Portable Electric Hand Tools	S-3.04
Housekeeping	S-3.05
Back Strains and Proper Lifting	S-3.06
Safe Lifting Cartoon	S-3.07
Materials Handling	S-3.08
Personal Practices and Conduct	S-3.09
Fire Control	S-3.10

NO TRANSLATION



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SAFETY INSTRUCTIONS FOR ALL AREAS OF INDUSTRIAL ARTS

## 各工業藝 衍 課之安全指示

- 1. 在有老废性的地方工作或操作楼器前必先微得教師准许.
- 2. 遇有傷害不論大小要專上報告教師.
- 3. 法律規定要幣護眼镜.
- 4. 假如你的鬓型會防碍工作,你得把它束好或戴上頸罩.
- 5. 實驗室内要穿著合通的衣服除去或束緊寬大的衣物顯帶或手節, 播起衣袖
- 6. 遵守有関操作者安全的规则。
- 7. 写你的班友合作以维護工業藝術之安全計劃.
- 8. 如学生有不安全之行動時得提醒他她.
- 9. 如有任何儀器可能不能操作時得先報告教師.
- 10. 把工具和材料放车離枪角速的地方.
- 11. 用掃去清理肩碎,用布去清理油漬的地方.
- 12. 保持地板和桌面清潔無雜物.
- 13. 有任何液体湾在地上時得馬上抹乾泽
- 14. 確和抽發和門都開好.
- 15. 将油布及其他易燃材料成在招弃之金属罐内.
- 16. 操作大重或盖的材料時得小心.



18-7 THIS TRANSLATION OF 6/27/78 SUPERSEDES ALL PREVIOUS TRANSLATION 譯文以英文原文為準

SAFETY RULES FOR POWER TOOLS

## 動工具之安全規則

1. 在未有正式揩示,不明白如何操作及教師未有准許聘不要操作机器. 2.在眼睛可能受到倍害的地方要戴合适的遵眼镜.

3.請教師檢查你的工作發置.

4. 柜加上動力前要檢查及調整現置.

5.在開動前確知附近每人。

6.遵塞要主定位上及正常運転.

7. 開閉机器领不要離气要得其完全停止為止.

8.除非需要一帮手否则只需一人操作机器.

9.要守着一圈载中的机器。

10.在加曲或清潔將要断電

11.你的手,刀片.切刀尽可载动的零件要保持安全距離,手指不要擺生有 被切刀切到尾偷的地方.

17

12.不要效工具器械或其他物品在机毁内.

13.保持机器四週包地板清潔委酒体,屑片,工具和其他材料.

14. 畲你操作机器時要全神贯住,不能分心.

15.永不受靠在机器上.

16.不要用副操作永久接電.

17.曹梅岩有破碧或关致暗通和教舒.

18. 畲侯专工藝品及览置新机品前, 征机会完全停止。



#### SAFETY RULES FOR HAND TOOLS

### 手作工具之安全規則

- 1. 在眼睛可能受到傷害的地方要带合适的護眼镜。
- 2. 選擇适合大小和種類的工具,費將協定運用每一工具,
- 3.切割工具一定要好好地磨利和保持好的情况。
- 4.不要証子沾及油渍
- 5.小心運用利進或尖銳之工具;小心保護你自己或其他人.
- 6.用鉗具拿稳短少之物。
- 7.永不要放工县在口袋内
- 8. 用工具時要用材而用.
- 9. 不用影弦或破裂手柄之工具.
- 10. 击孔机和攀子要妥為保存, 绝口令做成信害.
- 11.3用有柄之锉子.
- 12.不用鲣子锤打以免破碎.
- 13.不要以曝热旋作抬手棒.
- 14. 不要投机取巧以尾做成傷害. 所有扭転器都用其大小力量比例 而施用.
- 15.不要用一硬锤打在另一硬面上。
- 16.用完一工具领要情理好放回正蕾的保存地方.
- 17:有破裂或失效時要通知教師.

S-3.03



SAFETY RULES FOR PORTABLE ELECTRIC HAND TOOLS

于提常動工作工具安全完制

- 1. 用手提电动工作工具前一定要有数部的准许.
- 2. 插电前确知開閉制是否在"off"字位置上.
- 3. 操作任何手提电动工具脖一定要带蹼跟镜。
- 4. 每一落置的桶上的開閉一定要保持不变的(死人型)壓力, 那就是需器掉壓力後便開堵壓力。
- 5. 確知装备已稳固好,不要装在湿的地方.
- 6. 不要穿着影大或袋型的衣服,载动中的漂件可能会搭到它.
- 7. 市開動前確知休己站稳工作間的四週没有得物.
- 8. 獻鳝左常檢查看看有無缺裂.
- 9. 操作手提电动工具時过量的壓力會損害工具和做成意外.
- 10. 用工具前所有材料应适當地篮好.
- 11. 存開始前座檢查護塞,看看它們是否運転正常.

#### HOUSEKEEPING

Good housekeeping is a key item in accident prevention. It takes the cooperation of all; it can't be the responsibility of the instructor and custodian alone.

An effective housekeeping program will:

- Reduce exposures to slips and falls; 1.
- 2. Reduce fire hazards;
- 3. Remind individuals of their responsibilities in keeping the laboratory clean and orderly;
- Organize the housekeeping effort so that everyone assumes 4. their fair share of the task.

Good housekeeping cannot be accomplished by an occasional grand cleanup. A program must be developed for continual cleanup. The following are essential in a good housekeeping program:

- 1. The equipment is arranged to permit safe and efficient work practices;
- 2. Materials and supplies are neatly and safely stacked;
- Sufficient waste containers are provided and used; 3.
- 4. Floors are clean;
- Combustible materials are properly disposed of or stored in 5. approved containers;
- Excess materials and debris are not allowed to remain on 6. benches and in the work areas;
- 7. Regular inspections are made to maintain clean and orderly conditions.

Items that are necessary for good housekeeping in an Industrial Arts laboratory are:

- Adequate dust collecting system; 1.
- 2. Suitable containers for scraps, shavings, chips and other waste material;
- Adequate storage rooms, shelves, racks, and cabinets for 3. materials and supplies;
- Splash guards and collecting pans for all machines using of 4. NO TRANSLATION and coolants;
- Brooms, bench brushes, shop towels, and other clear 5.

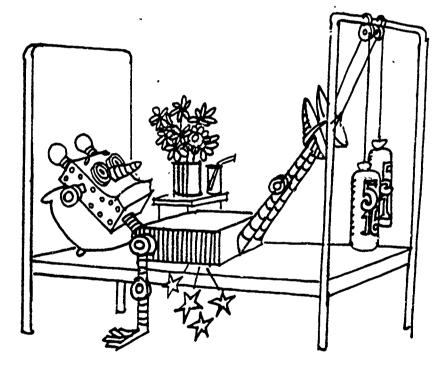
IT IS YOUR RESPONSIBILITY TO SEE THAT HOUSEKEEPING AND SUPPLIES ARE PROPERLY USED.

BACK STRAINS AND PROPER LIFTING

背痛和起重

由不啻的起重做成的背痛,其所湿瘦的工作時間多於其他任何 一類的傷害.

人力操作材料所做成的重外多为不良工作器惯所做成——如 不常的起重,携带过重的物件.不對的握法。及没有穿著遵身的笼备. 存旧任何安全計劃内正常的起重方传到绿星转迫性的.好的起 重新保可以防止很多背脑.

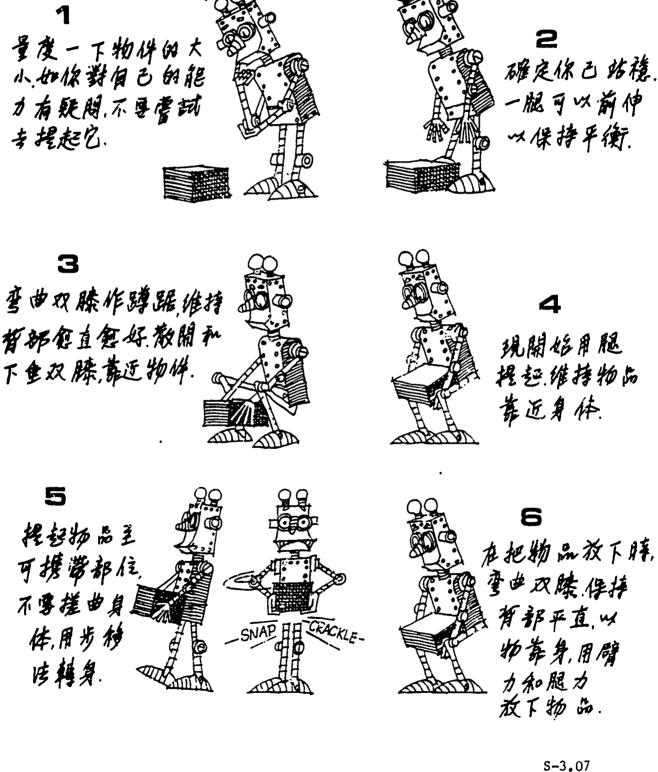


不當的 轻重會終身傷害你.讀下頁管君正當的超重诗.

Chinese Version

## 安全起重沽

**SafeLifting** 





S-3.07

#### HATERIALS HANDLING

According to the National Safety Council, nearly one in four disabling injuries is directly related to materials handling activities. These accidents include such things as slips and falls while carrying objects, back injuries and hernias from improper lifting practices, chemical and heat burns from failure to use protective clothing or equipment, and mashed or amputated fingers or toes from dropped objects.

Some of the things you can do to reduce the chance of injury to yourself or others when handling materials are:

- 1. Use the proper aids to handle the materials, such as tongs for hot materials, block and tackle or jacks to lift extra heavy items, and blocks or wedges to keep items from rolling.
- 2. Don't try to lift heavy objects without help; before you lift make clear who is giving the orders.
- 3. Use proper lifting techniques (see Page S-3.07).
- 4. If the material is heavy or sharp use gloves or pads to assure a better grip or to avoid cuts. Be careful of splinters when handling lumber; wear gloves to handle rough lumber.
- 5. Before you pick up an object be sure that the th you intend to follow is clear.
- 6. With heavy objects, make a "first lift" before carrying it so that you can get the feel and position.
- 7. With long objects, such as pipe or ladders, have someone at each end so that they can be safely guided.
- 8. Be careful not to drop or set heavy objects on your feet or those of other people.
- 9. Stack materials so that there is no danger of slipping or falling during storage or removal.

NO TRANSLATION



#### PERSONAL PRACTICES AND CONDUCT

<u>Accident prevention is up to you</u>. There are certain basic rules of conduct that you should incorporate in your daily activities. These rules all involve your attitude toward your fellow worker as well as your attitude toward the task at hand. People with a poor job attitude are those that most frequently have accidents.

Orderliness is a desirable quality. Safe workers will have a methodical approach to the job. They will lay out tools neatly so that they are able to approach the project in an orderly manner. They will not clutter up their work area with excessive tools and materials.

A safe worker is a clean worker. Messy jobs require continual cleanup of the work area and frequently of the worker.

Horseplay in the laboratory will not be tolerated. Severe accidents often have occurred because individuals:

- 1. Threw items in the laboratory;
- 2. Ran in the laboratory;
- 3. Lacked consideration for others;
- 4. Directed compressed air toward others;
- 5. Played tricks on others -- hot metal, electrical shock, glue in pockets, etc.;
- 6. Did not adhere to the accepted safe practices of a laboratory environment.

NO TRANSLATION



FIRE CONTROL

The fighting of fires is normally left to professional fire fighters such as the local fire department, but the student should know how to extinguish fires.

Serious fires may occur in the Industrial Arts laboratory in spite of the efforts of everyone. Should this happen, the procedure will be:

- Sound the alarm, both locally and to the fire department. 1.
- If a person's clothing is on fire, extinguish it. Water is most 2. effective. Do not let a person with burning clothing run. (Melted, synthetic clothing can give serious burns if extinguished by rolling on the floor or using a blanket.)
- 3. Evacuate to a safe spot clear of the fire area and remain in a group so it will be easy to check for missing persons.
- When the fire has been extinguished, clean up and protect wet 4. or damaged equipment and materials. Be alert for rekindling of the fire.

#### Fires and Extinguishers

There are four principal classes of fires. No one extinguishing agent works well on all, although some work on most.

<u>Class A</u>: This is the most frequently found fire involving wood, paper, rubber and most plastics. Use water, chemical extinguishing solutions containing water, or Class A dry chemical (they crust and smother the glowing embers).

Class B: Flammable liquids are commonly used in the Industrial Arts laboratory and can be difficult to extinguish. Dry chemicals are most effective, followed by foam, inert gas, and water spray. A flammable liquid fire in a container can be extinguished by putting a lid on the container. Remember that the heat from a flammable liquid fire can quickly ignite wood or paper in the vicinity, making extinguishment more difficult.

Class C: This covers electrical fires. Remember that the first step in extinguishing an electrical fire is shutting off the power to the equipment that is on fire. Then extinguishers with a Class C rating may be used to complete extinguishment. may be necessary to use water if the electrical fire has invother combustible materials. AVOID USING WATER ON ELE EQUIPMENT THAT IS NOT DE-ENERGIZED UNLESS IT IS APPL-FINE SPRAY, AND EVEN THEN CAUTION MUST BE TAKEN TO TRANSLA ELECTRICAL SHOCK FROM TOUCHING "LIVE" SURFACES.

25

<u>Class D</u>: Certain metals such as magnesium *v* may burn intensely. In general the exting excluding air and moisture with dry sand extinguishing powder.

aluminuz .od involves metal fire



# Safety Practices...Specific Processes and Operations

In spite of one's knowledge of general safety, alertness to potential hazards, or desire to "be safe", there are certain processes and operations that require specific knowledge in order to avoid injury.

Safety rules for specific areas are as follows:

Automotive and Power Mechanics	S-4.01
Compressed Gas	S-4 04
Drafting Room Safety Practices	S 4 05
Dusts Funos & Combustible March	5-4.05
Dusts, Fumes & Combustible Metals	
Electricity/Electronics	
Flammable & Combustible Liquids	S-4.08
Foundry Safe Practices	S-4.10
Graphic Arts	S-4.11
Plastics	
Soldering	
Storage Batteries	
	0-4.11

<u>Note to Teacher and Students</u>: This guide is not intended to provide all of the instructional and safe practices information that students will need to know to successfully and safely participate in their Industrial Arts activities. Each instructor and student is expected to seek out and use additional instructional material. Highly technical information not available in the average text should be obtained by contacting specialists in the field.

Additional information on safety and hygiene may be obtained from:

Department of Labor and Industries Division of Industrial Safety and Health \*P. O. Box 207, Olympia, Washington 98507

United States Department of Labor Federal Office Building, Room 6048 909 First Avenue Seattle, Washington 98174

University of Washington Department of Environmental Health Health Sciences Building Seattle, Washington 98105 NO TRANSLATION

\*Or the office of Labor and Industries nearest your school.



自動和動力机械 在修理自动机械的工業中安全,不能過於強調.一個好的机械的就是一個 安全的机械的.假如有一次提或安全的工作才传.要用安全的传子.否则,你 可钻不能完成工作.

以下是一些你可能遇见的损坏和安全措施.

普通預防措施 General Precautions
1. 只有准許時才油滑或調整正幹動中零料.
2. 當在風扇或帶附近工作時要小10.
3. 可能時工作時机器開閉壁要在停止, \* OFF " 位置上.
4. 只在机器停止時才束緊處扁帶.
5. 常老屋机器和炮威系統是動的 "Hot".
6. 不要用闭口的容器倾倒汽油だ引燃机内.
7. 布塔焊机械時里特别小 № — 提供防火設備.
8. 不要直接在其他管生上面工作.
9. 布打開蓋子前要等放熱器冷卻才好.
1. 當要拉机器時確知證案都已适至地納好.

個人健康之名陰性 Personal Health Hazards 1.雷噴漆時要數口罩. 二不要以溶油或汽油洗牛.它些原料為爆炸性及會傷害皮膚. 二番必要從机器中提起完件再避免背部负傷. 千永不要把手放在每压油射槍崩. 二符受倍的地方穿著和蓝好. 6.不要穿冤衣或白是獒.

18-7-1 THIS TRANSLATION OF 7/21/78 SUPERSEDES ALL PREVIOUS TRANSLATION 譯文以英文原义為位語

5-4.01

Chinese Version

<u>千斤頂和起重机</u> Jacking and Hoisting 1.假如有学生在下向不要升起单轴。 2.花院单下工作時一定要用千斤預。 3. 常用千斤項時避灵过度的接探单辆。 4. 在学生附始在汽車下工作前要数码兑檢查千斤項。 5. 是形的千斤頂柄含做双老院,座先把基拿走。 6. 不要用模擂千斤頂。 7. 雷汽車已升起時不要凌动机器。 8. 放下汽車時要小心。

工作時駕使及停位 Driving and Locating the Vehicle for Work 1. 在工伤中驾使汽車時不要戴有限判視稳的護目鏡 2. 汽車只应由有有致驾使轨路的层生驾使重要有教研之准辞 3. 修理汽車時不应把車位在繁忙的通道或今家通道上. 4. 拖和推車只能在教际准許時才能. 5. 雷要把单停在捕塞地才特要有另一层生作引擎. 6. 雷引擎奏动時,一定要有人坐在驾使座上.

<u>油漬油,燃料及溶液</u> Greases, Oils, Fuels and Solvents 1. 引上 盾理和通恩溢出燃料. 2. 5. 用准許的溶液多盾理零件,不要用泡油. 3. 在意动引擎前確知有正当的通周設备. 4. 存油质的碎布放道准路的废物箱肉. 5. 意动引擎前檢查燃料提致整有無漏冲孔. 6. 符易燃液体放在准辞的容转容器内.

ERIC Pruil Text Provided by ERIC 28

5-4.02

Air Pressure 1.曹静秋贯皋時用座氣計量器. 2.官貫氣於有"SNAP RWG"的卡車輪軟時,应把輪軟定位於一許可以第内. 3.永不要把栗喉对着别的营生或你本人. 課旋樹和工具 Wrenches and Tools 1.保存所有工具清潔和免於油漬 2.放起地板上之工具. 3.確和螺旋鉗已发冬

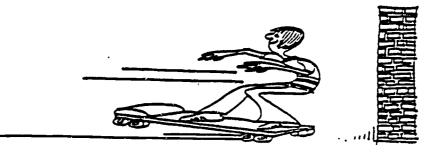
4.县栖的锤子不应使用

5.所用的工具要任合其設計使用 —— 永不要用夹作槓桿.

7.不要用菇形頭的攀子.

ERIC

一氧化碳 Carbon Monoxide 氯化碳為一有毒之氯体基形成原因為汽油或等他燃料没有完全燃烧 常引擎转动時其為象体状况,继长是一小量的一氧化碳在人身内都今做 成改命保定就是為什麼那麼重要不要在很差的通風地方發動引擎



S-4.03

壓縮氣体 COMPRESSED GAS

最常用来切割和熔焊的氧体為氧氧和乙炔,但是你亦可能会用氢氯氮氧, Haap 氢,氢氢二氯二氯代甲烷,氢丙烷(油化汽油),二氢化碳,或二氧化硫, 如果要全地使用这些氢体你要知道它們的特性和確知你用正確的 税子,壓缩氧体的瓶子没有特别的颜色,記號! 要閱讀標記.

以最謹慎態度使用壓縮氣管在每個管中有無比之威力粗心的使用 結果使到塞了或简破还而使你或你的朋友马上喜命、移动圆筒時使用手

易然氣体 Flammable Gases

乙炔氢丙烷和 Haap 氧都是语度易燃氯适些易燃氯体通常都用固筒装置 乙炔在丙酮中溶化(Haap氧和丙烷都在壓力下溶化),所以在用這些氯体時 要特别注意把圆筒放直.

如憩空象或氧混合它們會形成強力的爆炸所以汽門調節器,服管和 其他装备一定要緊塞和好好地修理<u>當不用時間掉調節器和院門</u> 将後俻的氣筒放在一通風位置,用防火欄将其隔開——最好在外面. 所有的氣筒一定要常放好和垂直地放富在放或移動時,觉筒的蓋子一定 要定住除非已稳放在輪車上要生不得移動筒覺.

5 A marcan

A Dxygen

这了工场用途,此氢氯自成一組,它含錄很多的普通材器混合.在正確的情况暗它今使材料猛力地燃烧及爆炸.在高壓時可令使汽油爆炸.承不要用 油放在氢汽門或調節氯塞備上. 假如你揉圆筒.在寸門汽門前营請教師 檢查.

非燃气体 Non-Flammable Gases

這些氯体包括氢氯氢二氯二氟代甲烷,氯二氧化硫,和在高腐情况下,氨可能含燃烧,有些氧体每味,有些有强味(二氧化祛,氧),這些氧体对生命都主文持力,所以适當的通風設備景重要,在開始使用氯体時,先閱該某特色及詳細安全預防措施及學家的教師商計此氯体之特性.

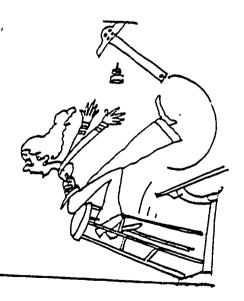
5-4.04



## 製圖室安全練習 DRAFTING RUCH SAFETY PRACTICES

離然豐圖宣存在之居险性匹较少,但以下之安全因素一定要额虑到:

- 1. 製圈室中之切納刀可能會帶來嚴重的割傷或夾傷.大部份時間左安 装在固定的位置上,不用時,把它額好;切刀之保護栅不应趋桌子号英 时以上,及定位在操作者之手部及刀斜中間,不要移去遵蓋.
- 2. Ozalid 印紙和炉印纸,用要用氢,所以要特别注意安全指示.在氢至凝 转状燃烧時很春,其早能至通尾的地才操作.应告訴学生不要吸入氢 氧和氨教证 至皮膚上,应属上用肥色或清水洗净.
- 3. 不正當之操作罹罄,分切器,或硬鉛掌结果會使皮摩受倍;及古肥晴受 倡引致血液中毒.
- 4. 確和保坐的橙子或几了四脚着地,從鞋動中的橙子或几子跌下俊我
- 5. 从心湖整可调整的裕理。



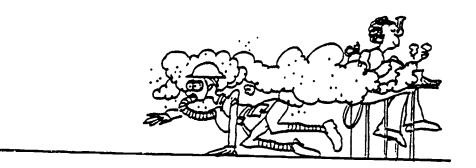


31

S-4.05

臺埃、氯體、和易燃金屬DUSTS, FOMES AND COMBUSTIBLE METALS 在工藝寶驗室中,有些人會對塵埃或氣体(燃烧金属產生之碎妝)感到不道. 真些碎比富有高度易燃性或爆炸性,其可能尊致嚴重的或承久性疾病. 以下之四張為重要的防止室内爆炸之才法: 1.用適風設備移去工作地點之塵埃. 2.所產生之塵埃用吸摩机或掃言移去. 3.當生合產生塵喉之操作時數於叠守吸器 4.至劑切,熔焊或磨發靜 金屬前請致教師. 石綿塵很有危險性.當劑切或計孔或廢炉 時恩特别小心.當操作比類全屬 材料時一定要穿戴呼吸器或薄衣. 育些金屬如鏡等都是易燃的或不稳定的.不應用於工藝实驗室中.

曹操作能或辞特,不论是否燃烧,镕得,解持,溶化,或机磨,一定要有通思改備.





S-4.06

## 電力和京子 ELECTRICITY/ELECTRONICS

常鲜择特要戴合通的费日镜 1. 官肆接或分肆時,永不要轻撃溶化的焊 2. 直主义安全测验才法判定马王要顧虑到所有的电線或插頭都是通 3. 电和热的. 不要抛擲開放专看其结果。 4. 族通常绿時閑掉電源。 5. 曹更挟通电船或轧碎机時確定烧毁的通电缺或像路的住置及原用. 6. 实验性常路和电稳校应在态度好通电绿 **7**. 日在电力停止投才更换电線 8. 座穿 就修理前移专或中断电器 查矿檢查电线 场 预已两份君惯 9. 10. 確如于提例电器用出已安蕴稳固. 11. 要用已毁还的电器用品. 12 不 高壓電液之遠離地板上之準電体、用一孤立之封換器。 13. 觸摸前確知宫客器已要更. 5. 庐 當條用一測點探針時差成把一千放至口包內或主背後. 國操作陰極發展時期手套和面單 陰極態 管為極有爆炸性之 16. 16. 老院物、曹操作降極總管時教師在在場際極線電在低空(多空象)或 破到時今曉成爆炸、行破鸡震飛得很遠、藝告: 陰極得管存生高压 官(約20,000 犯)、如工作前不將其這樣を做成最重的雲傷 曹操作官器時不 唐戴金属手筋手錶,并指,手续等物. 17. • 依监挡禾操作和店放電池。 18.

S-4.07

ERĬC

客易起火和燃烧之液体 FLAMMABLE AND COMBUSTIBLE LIQUIDS

在很多工藝課中易起火和燃烧之液体是很重要的它們一定要有高度的 安全性云症 放爽用. 在用这些原料前常閲读容器上之指标聪明.

客易起火和燃烧液体有潜在之飞险性困伤:

- 很多比空氣為重之蒸氣体聚落地板上或較低角落上,等待散衰的火花. 1. 2.
- 很多已经氧化素热所以如康物等基接觸使今随之者火。 全有傷害性结果之感氣令做我人你内之神经和/或排想係统之傷害。 3. 假知呼吸入体内全部都有害. 大部份毒氯令移定皮魔上之保護四常按肠之信果会做成皮膚炎. 4.
- 5.
- ά.
- 募千全部都会猛力燃烧每有适合之减火得器很難撲滅 曾燃烧将大部份的易燃液体都会虚生濃烟使保在能较火有要或客空 7. 内 很安全地在放和操作客易起火和燃烧之强体

確和充氣抽風机/屏生易燃液体存藏 宣内湿转. 1.

- 2.
- 三拿马驹雷課所需用之份量. 遵照教師指示作廢物或多餘材料放在有蓋之客器内. З.
- 用漏斗倒液体入小的重器内 4.
- 当上清理深水和水清遵照指示处理存碎和度料。 5.
- 閱讀和遵照指示操作和混合權化劑時用樹脂. 6.
- 永不要将摧化剂倒四瓶中. 7.
- 8.
- 营将摧化剂倒在樹脂中,不要将樹脂倒在摧化剂中. 表不要得樹脂.油漆或其他完成原料用在副切.熔焊.楼磨或其他整的 9. 確和二作間通見是好. 北地 **[0**.
- 存洛博料或语料放在房装客器或准許之罐内. ][.
- 曹操作 epoxy 和 polyester 樹脂時萬膠子客城外皮膚後傷 12.
- 至離間工作間時院手及其他觸及之皮層. 13.



以下是一些有更大老院性的易燃液体,你今生实验中活動中 遇到 62. (按龙院性大小顺序排列如下):

Starting fluid 引然流 \*\*Aerosal cans 氣態溶膠 Gasoline Au \*Catalysts M.E.K. Peroxide 遘化司 Carburetor Cleaner 范大器请读词 Acetone 丙酮 Lacquer and lacquer thinner 🛣 Adhering liquid (for skin-screen process) 盆池 Paint thinner 加嗪管制 Alcohol 酒精 Shellac 为读 \*Japan dryer 药剂 Kerosene 类词 Paint 山体 Resin (polyester) 粘胎 Stain and varnish 译词 Danish oil 日老山.

\* 當鲫有機原料混合時這些原料会加速燃烧或猛烈反应.

\*\* 視邏中所用之化要推進剂其倡害老險性可能会有海大不同.



## 接造工協之安全練程 FOUNDRY SAFE PRACTICES

主奉	幕進工場内要常時遵守安全練習不正確之操作溶化的全属會做成聚
重的	
ι.	曹操作器化全属時要穿着保護在股如安全眼镜西里,到蓝、国中,護程,
	和石棉手有、不能穿着網球鞋、拖鞋
2.	常假静城下工具法游船、湖北 如斑石 横川 工业 化化四十分化
	常假設以下工具各趣的:坩堝、甜頭瓶、绿件及其他偏露在拿些医生物品有確和享益检查
3.	网络拉斯静教长教练之格上 难到的地方,不知道的一个
4.	開起模前.請教於教師主檢查.確知例模時也不受过總
<del>т.</del> <b>5</b> .	- 10 X / /// ////////////////////////////
Δ.	马在教的监督下些燃火烧,接野教送商之指不以下是普通可行之劳疑:
	5.打開大炸,征空氣流通之分鐘.
	C.减少空气对流.
	d.在火炉防造一火炬
	C.慢《加油烟火,每用(a)法再变炉.
	1. 復 2 月 38 2 3 12 通
	9. 調整火羌使其燃於炉内
6.	在移去坩埚朝,创掉油,展開空氛,目坩埚并起熟给如白菇土坩埚
7.	活达给他生活时属有程度的石用三人间的多
8.	除减火砂外,隔壁木,或像粉花,铸造工场外,
9.	赣送工场之物板在用砂保護着以防重外性世俗化全海灌於地上所
• •	引起之爆炸.
10.	在是此版( <tvrofan) td="" ····<="" 生的控制工程、yp关小+20=""></tvrofan)>
	花鑄游時(Sityrofoam),过備鑄型口盤以防着火,守閉工坊之通尾南,不
<i>(</i> ].	在就要我一句从法部创始的指型、二八百世的一个人。
11.	在教教或二氧化碳酸倒模醇,模型之两边应差稳,及以细颈施之青砂
	于散怒不要吸入漂雾。

36

s-4.10

#### 圖藝 GRAPHIC ARTS

有很多在圈藝祥所用的器材和唇料都是弯的, 尖的.脆的.或難以操作的.测量一下带作物之大小 密後如有需要請别人帮助.器情器材之附有之精細 特性,不要要用损任它.

以下是终期圈暂間之安全额度

# HA Dark Room

- 在暗房時打閒通尾器. Ι.
- Z. 3.
- 化学品不应存发生残漏散或高架上因甚可能堕下做成倍害。 曹华备化学溶液醇要戴化学读目镜和圆巾。當将酸倒入水中,不要符 木倒入酸中. 當仲底甩或混合化學品時要戴膠手套和鉗子. 4.
- 當中底龙或混合化营品時有敏感性的学生一定要带手套 5.
- **症暗房工作時原生手部要離間面部**. 6.
- 冲完在总授学生在小石说手 7.
- 在接近沉壁附近不应用手提式电器 8.
- 在暗房内不得有不安全之行為 9.
- 龙马上林乾隆水 10.
- 避免化管品活在应服上。這可能会做成皮厚不舒服. 11.

<u>乾栀 ( 漢 未) Dry Mount</u> 学生在要小心避死被盗斗烧傷 1. 乾梧的秘度日中教師盟定. **Z**. 工作完成後放专选斗之插頭 3. 不要将教的選斗放立統上或語台上,但要把白放田原架上. 4. 降坯的电耗和插頭告訴教師 5. 不要用手去就得半之热度 6.

S-4.11



操作摄影机 Process Camera

不至觸摸熱灯 1.

避死用撮影灯对著学生眼睛 2.

主旗踢旗印段附近小加操作. 3.

日极印刷 Offset Press

在調整,清理,加油,和清理積物劑先把印楼停止. 1.

- 在操作時不要伸手过印机. 2.
- 曹贵现印九机件关重時应把它関掉,继续操作前告訴教師.不要 3. 宇动专修理.
- 操作印机的速度雪薄雪数的的指示. 清理影动中之印机要特别不心. 4:\_\_

5.

- 6.
- 没有教師之准許不得生印机上用工具. 確和印刷時穿着应服对工作安全很重要.除专宽应,领带.或手能. 7. 把礼袖播到时上.
- 假如你的頭髮可能令節末老險性,你一定要把它束好.或戴護髮器. **δ**. 常保持地权要深 9.

to the (STRIPPING TABLE)

所有材料不要接近玻璃用比不会打破。 1.

2.

常切平物脑手指静静切极地方. 例切工具在安古存放及保持锐利. 3.

38

S-4.12

# 据纸机 Folding Machine

- 官机器在转动時不要官就专移走缚塞的纸 1.
- 更改時停頓电源 2.
- 将所有工具移開播紙机格外. 3.

確和電线已被放去

## 切紙加 Paper Cutter

- 切刀日船由教解更换。 1.
- 管学被切的航外化何束西都不要放空切拾上. **Z**.
- 3. 4
- 保持切检胎正地板清阗把切碎总放至廢城留中. 主整個切紙过程中得双手放至積得上。至双手離開積得前確 和切刀至上位正確
- 永不要得谢 子提高过刀龙. .ک

# 整板器 Plate Maker

1. 空更换碳纸或调整前停止整板器.小心都的碳纸. 2.操作時不要看圓克. 3小心不要把空心架的玻璃打碎.

統孔 加 Paper Drill

1. 提防打孔安端是抛的. 2. 當打記時得手離開行記部位. 3.常保持脚下乾净

些复振 Air Brush

ERIC

1.請教師搭鼓或停止高压缘仰調整器。 2.不啻朝絶朝整器 3.小瓜不要喷车管生版上.



## 雅號印刷 Sign Press

1.不要撕成技活字型. 2.小心把予離間速筒. 3.日特别之清潔剂专清理活字和印机. 4.窗清理時不提带印机.

Fo BP the Platen Press

1.當槓桿拔下脖捋手離開压印机. 2.至印刷脖不要取为或静整紙案. 3.遵照指示清理压印曲墨和流筒.

31 Ep Engraving

1. 當刻印脖一定要載手底 2. 不厚将手放至切刀之下. 3. 教解会更换 致朝整刻印切刀.

自動温度紀錄幕 Thermography

1. 窗燃烧凸板可粉時管生一定要带手套. 2. 管生生工作間不 税物力灯 5. 平灯亮或凸板印料生燃烧将不静開工作間. 塑膠印和全印Rubber Stamp and Gold Stamping 1. 用燃烧原料時零小 小操作 2.保持工作面清潔 3. 不要描或掉活些.



40

S-4.14

塑膠 PLASTICS

- 戴合道的遵服镜 1.
- 除非你已明白混合物之及应承不要混合化何束西 2. 3.
- 用可能全教出毒蒸泉要用通尾設備 4.
- 很多酒体和樹脂含者也很低的艺野之堪编蒸氧生操作比较厚料 塘木得用陽大燃烧 5.
- 穿戴合适之保護物,除止原料引起之皮膚不適一如穿戴手套,和 6.
- 7. 8.
- 9. 10.
- 每個地境更位都在有警告帶號和保護 *Ι*.
- 日本部指講之房料及程序专法制定模过程 /Z.
- 當用木或金屬工具時遵照這些机器之安全規定 В.
- 清理和放田所有工具至正確存放地方正確地處置所有易燃原料。 有些摧化反应含意生大量的趣這些東西与托车金属客器内混合。 14. 常以摧化朝加入横脂内、不要把横脂加入摧化制内、 Ľ.



S-4.15

解接 SOLDERING

解释:用一铼化金属連择两稳金属至一部的过程基金熔得保自己 末做 保存記字以下之安全措施:

- 戴合适的护眼镜 1.
- 立間位些炮焊搭炉前,確和煤氧已開谷. 2
- 3.
- 假如火炉没有自動灯: a.以火柴或炮音之紙放人炉中.
  - 6. 豐气 打開煤象直 王 其燃烧
  - c.調整火炎使甚至炉内燃烧
- 在有色好通思設備下工作. 4
- 不要主焊接过程中吸入煌雾 .ک
- 6. 小心地旋铜上移着多鲸之鳍化锌
- 马上请理深落之路化物 7.

Courses.

- 8. 解接後戌手辖化为会烧售皮屑或损害应物. 9. 如被酸烧得蛋白用水冲洗. 10. 小心防犯菌的含辱的迅速得趣.
- //.
- 不要站立或立退的工作圈内用电枪或铁器。
- 12. 用电探旋和缺器時小小不要切解到烧着电镜: 清理土祚間 13.
- 不要至有人会接觸下時留下趣的全编。 14

TORACE BATTERIES

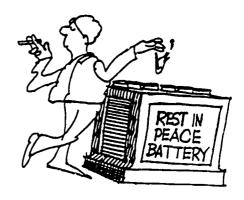
你最可能接觸到儲藏之電池為沧卓電池.因募大之体積及募普通性,有時

以下是安全颜度之规则

- 1. 电他之储藏或充电与舱在有良好通尽設備下行之不要吸入电他之
- 2. 任何引起燃烧的原因都要速激爱他之储藏他方;和是:不准吸烟, 不准图火柴,不用工具相望爱生火花.
- 3. 生解宫或无电時不要操作电池.
- 4. 雪影理察他博察着合适之保護在服如膠手套面罩圈中等.
- 5. 在宫腔附近不应带金属鲜物。如刑指,手镯,或额鍊
- 6. 生意池充意間九度无花灑和浅胞盤
- 7. 用微約之氨液,或碳酸酮液,或多上用水可以中和酒落酸液 8. 只在充电器已閉备及盖好時才能接到或除专电池充电流。

以下是一樣軟嚴重之潛女名演:

- 1. 不适曹榕重引轻爆炸
- 2. 不对之处理合使酸激励落
- 3. 不适當之提升物件會傷背部.





# Safety Practices ...Machines

Safety rules for the following machines are included in this section.

Buffer	S-5.01
Drill Press	S-5.03
Forge, Gas	S-5.05
Grinder	S-5.07
Jointer	S-5.09
Lathe, Metal	S-5.11
Lathe, Wood	S-5.13
Milling Maching	S-5.15
Planer-Surfacer	S-5.17
Press, Offset Printing	S-5.19
Sander, Portable Belt	S-5.21
Saw, Band	S-5.23
Saw, Portable Circular	S-5.25
Saw, Radial Arm	S-5.27
Saw, Scroll	S-5.29
Saw, Table	S-5.31
Shaper, Metal	S-5.33
Shear, Metal Squaring	S-5.35
Sheet Metal Machines	S-5.37
Welder, Arc	S-5.39
Welder, Oxy-Acetylene	S-5.41

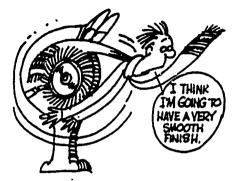


#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

未得教師准許有不得操作比機器

Chinese Version 康静 BUTFFE

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#### SAFETY SUGGESTIONS

- 1. Always buff using the lower half of the wheel (below center).
- 2. Always wear eye protection when buffing.
- Always stand to one side of the wheel when buffing and when applying compound.
- 4. Never use a rag to hold the work while you are buffing.
- 5. Use extra caution when buffing around corners, openings or areas where the wheel could grab and throw the work. Do not buff small diameter tubing, wires, chain or similar material.
- 6. Exercise caution so that the work does not overheat and burn your hands.
- 7. Be sure the area behind the buffer is open and that no one else is in the safety zone.
- 8. If your hairstyle presents a potential hazard, you must fasten it securely or wear a protective hair cover.
- Remove or fasten any loose clothing, neckties or jewcl.y. Roll loose sleeves to the albow.

- 1. 磨克時常用磨輪之下半部 (快天以下).
- 2.唐光時常載護服.
- 3.潜艺或加人混合物膳常站在摩静之旁。
- 4.磨梯杆不里用碎布专拿被磨物
- 5.在登岗武某他有主漾的地方驿特别小心, 因為稿子可能会恭世爱物,何心不要奢细 小圆目之铁條,镇疑武其他朝似物品.

6.小心操作的防营物过轻是信手.

- 7.曾雄和唐翰经面来人站空安全远内。
- 8.如果体的头髮的对接作可能含生素外要把它束好或戴護髮. 9.除专或束架宽大在服,领带或珠宝,将宽大杠轴搭好.

18-7 THIS TRANSLATION OF 6/26/78 SUPERSEDES ALL PREVIOUS TRANSLATION 講文以美文信文為依據

Σ

BUTTER	Student Name Class Date	Grade		李	BUFFER .	塑生性之 班级		
SAPETY QU	12			<u>+</u>	SAFETY QUIZ	a 14	成4	
1.	A rag should be used to hold hot objects while buffing.	т	•	1.	磨物裤里用碎布去拿熬物.		Ł	柞
2.	The second of the tower Dell DI the	·	•		摩克赔常用磨船之下半部.		关	柞
-	wheel.	T	7	3.	宽大在收或关簧要整理好		关	柞
3.	Loose clothing or hair must be confined.	T	2	4.	曹唐九肝-定要戴護日统		足	非
4.	Goggles must be worn when buffing.	T	P	5.	在登角或特别地方 静辉 特别小	15	是	非
5.	Use extra caution when buffing corners or confined areas of the work.	т	r			· .		i

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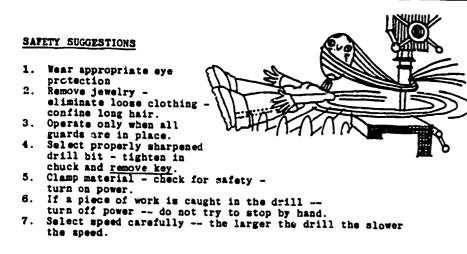
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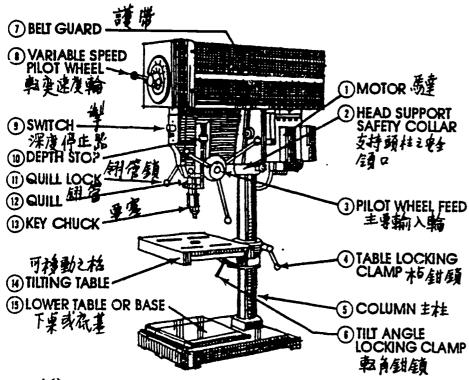
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مد الالماط

#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.







Alt & BY & MARY PULTON	
安全建满	
1.戴通雷之谨眼镜。	
2.除去牛飾及寛大衣服,束起聂燮.	
3.當所有中全對都姿當時方可操作	
4.選擇適當的鑽脣,綿緊木窖,拿封鎖	
5 檢查鉗之安全,發動告達.	
6.如某一物件客在打孔器内印烧样构器不具	早用于去停止局達.

未经彩虹的 秋天 经插出分摊的

7.小心逻辑速度联合大的速度愈少

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. DRILL PRESS

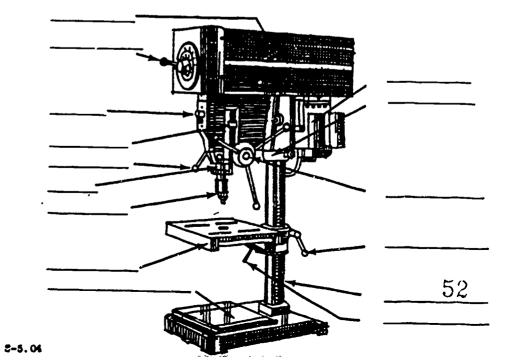
3.

Student Name\_ Class\_\_\_\_\_ Date\_\_\_\_\_ Grade

### SAFETY QUIZ

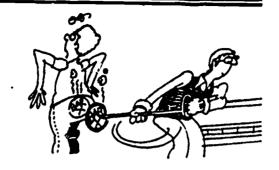
1.	It is necessary to select the proper speed.	T	7
2.	The chuck key should be kept in the chuck at all times.	T	7
3.	Work should always be secured.	T	7
4.	Rings may be worn while operating a drill press.	ł	7
5.	A chip bruch should be used for removing chips.	T	7
6.	The drill should be operated at top speed for all work.	T	7
7.	The long end of the work should be at the left of the operator.	T	7
8.	Long hair must be confined in a hat or net, or tied back.		
	erad DECE.	T	2

	鑽衣 费生性	¥		
	770 00 7 7	1		
1	F全测 驗	Ł	非	
1.	有必要古選擇適當的速度	是	柞	
	要噻零常留在寒内	£	#	
3.	.横件要常爆好	是	柞	
4.	操作错床時可以戴戒指	是	养	
5.	可用棉去清理碎片	足	柞	
6.	<i>柜住伺操作時間内××最高速度操作锁</i> 床	Ł	并	
<i>7</i> .	工县之長末端應住嫌作者的左遵	£	*	
8.	复数店来好在後面或束在帽子或数棚内.	Ł	祚	



煤氢熔炼

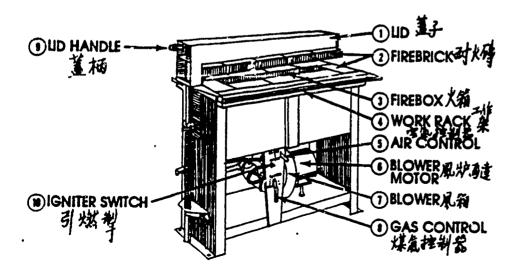
#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.



**GasForge** 

#### SAFETY SUGGESTIONS

- 1. Approved eye protection must be worn when operating forge.
- 2. Asbeetos mittens (gloves) must he worn when the tongs cannot he used.
- 3. A pail of water should be nearby at all times.
- 4. Hot metal left unattended should be marked "HOT" with chalk.
- 5. The top must he open when lighting the forge.
- 6. When shutting down, the gas control should be turned off first.
- 7. Be sure gas is off "tight" when leaving the forge.



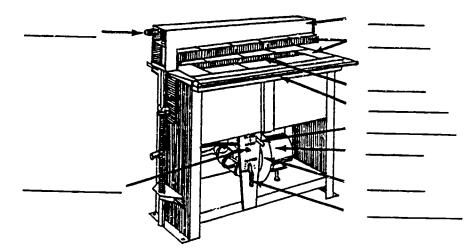
## <u>安全建議</u>

1. 曾操作焙炉時生戴面罩.

未得教師准許不得操作比機器

- 2. 如不能用钳子時一定要帶手套.
- 3. 随时在工作凹点附近放一桶水。
- 4. 教的全有一定学用粉华雪上涨,字"Hor".
- 5. 当引燃焙炉将要打開盖顶。
- 6. 曹熜火时要先国去煤桑控制器
- 7. 在群間溶炉時要確知煤氛已開緊.

GA	S FORGE	Student Name Class DateGrade			煤氧熔爐	帮生姓名 神级		
34	VETY QUIZ			•		i <u>1</u>	承缉	
1.	Tungs should be available for t of hot metal.	he handling	т	<b>.</b>	安全间验			
2.	Gloves should be worn when hand	ling the tongs.	т	P	1. 操作数的金属」		是	柞
3.	The top slot should be closed we the forge.	hen lighting	T	P	2. 用斜子停庄要重 3. 雪脸护铅要陶的		£	柞
4.	The air should be turned off fin shutting down.	rst when	т	r	3. 雪烧火晴光碧柜 4: 雪烧火晴光碧柜	•	是	华 祚
5.	Hot metal saculd be marked "HOT	" <b>.</b>	<b>T</b> .	P	5、 数的金属左雪上	1	足	作



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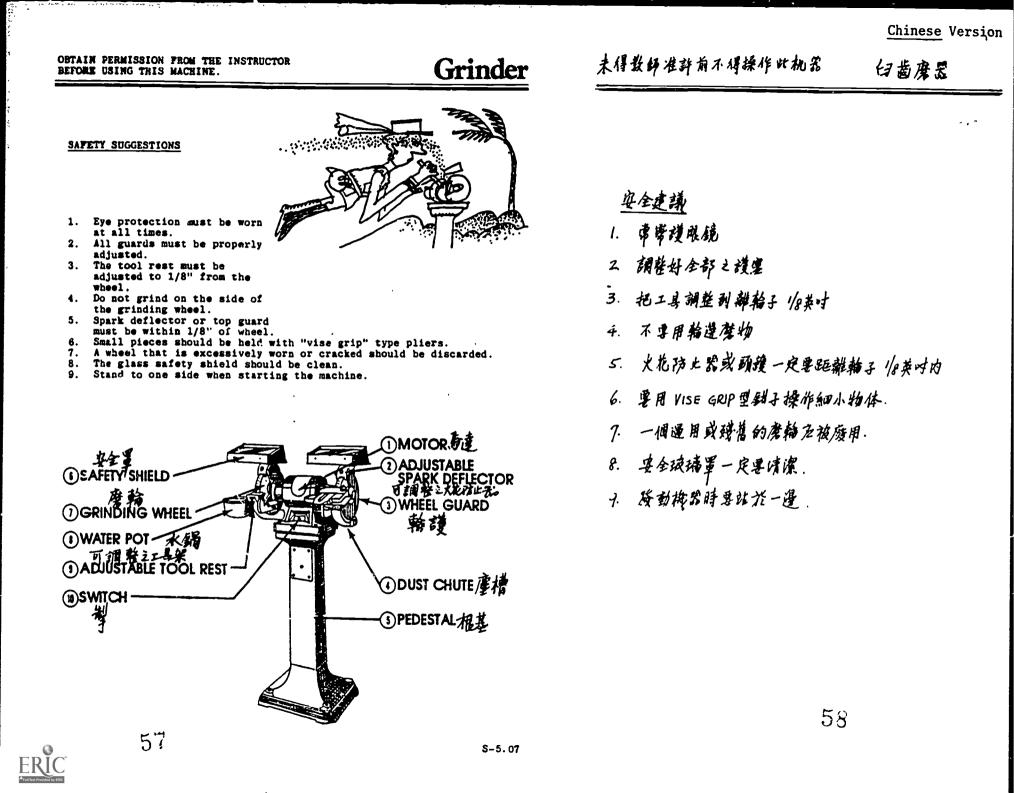
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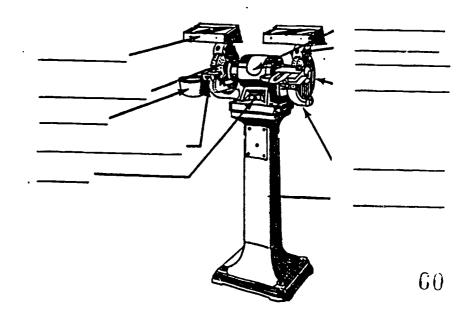
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<u>Chinese</u> Version

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GR	INDER Student Name Class Date Grade				臼齒磨器	学生性名 班征		
<u>. 8A</u> 1	781Y QUIZ				安全测验		K	续
1.	The tool rest should be adjusted to within 1/2" of wheel.	т	-	1.	工具杂应调整利排除子儿英寸。		足	井
2.	Eye protection is not always necessary while grinding.	T	r r	2.	在察特不须主常戴瑾眼镜。		足	柞
3.	Once the "off" switch is in the off position, the operator may leave.	T	7	5	雪開阔攀在"off"(刚)位置上時端人	洋居便可辨明.	足	非
4.	The safety shield should be clean.	T	7	÷.	安全宰臣清谋.		是	芣
5. 6.	Wheels that are out of balance may be used. The spark arrestor is not necessary if there is a glass safety shield.	T T	r r		不平衡的转子者可使用		是	柞
7.	When grinding a small piece of steel, "vise grips" are advised.	_	. 7		如有基金玻璃掌便不必用火花! 雷摩细少鲷物時最好用 Vise GRIPs		是	柞
8.	If there is a glass shield, eye protection is not required.	T	P	1.		<i>ምቍ</i>		



#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

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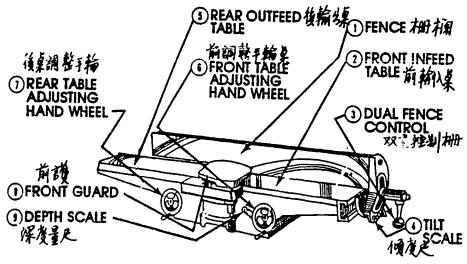
Jointer

#### SAFETY SUGGESTIONS

- Before starting, make sure that guards are free and will cover the blade at all times.
- 2. A push stick must be used on all material that would bring the hands within 2" of the cutter.
- 3. An assistant should help support long pieces.
- 4. Several light cuts are safar than one heavy cut.
- 5. Wear eye protection.

61

 The board being jointed must exceed the minimum L. gth established for that particular machine (check with instructor).



## 寻全建講

- 1. 庄登到梅器府,碓知祥塞船自中地直着刀儿.
- 2. 所有材料得用推稳推到耕切刀 2 对他方.
- 3. 盖的物件左有一颦手扶着.
- 4. 乾纟们印制多次吃大切末得安金
- 5. 戴颜眼镜.
- 6. 连接板一定空时横器的最短音度游击(韩示教解)

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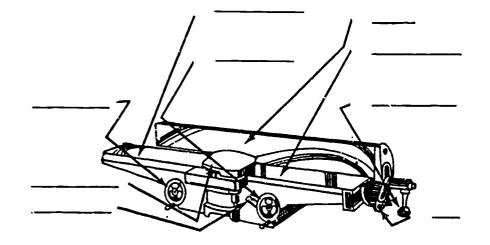
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01	INTER Student Name ClassGrade		_	連接器	学生姓名 张振 日期		k (#
<u>54</u>	TETY QUIZ			<u>安全测验</u>			
1.	It is possible for the guard to stick and not cover the cutter.	T	7	1. 葭客可能会首穿而不显着切刀.		是	*
2.	A push stick should be used when the hands could get clove to the cutter.	T	7	2.雷手不能接近切刀将需用一样根。		是	并
3.	Eye protection is not necessary when operating a jointer.	T.	F	3.宫操作道接器時不必要戴護服镜。	-	是	柞
4:	Permission should be obtained before using the jointer.	T	P	4.操作道程出前左得准辞.		是	养
5.	Stock shorter than 6" may be processed on the jointer.	T	P	5.短於6英叶的器材可以用速接器去處	理。	Ł	华

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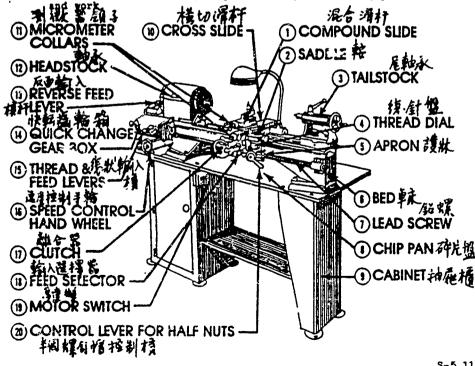
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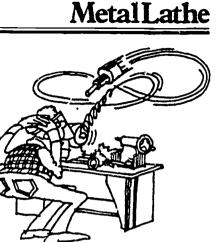
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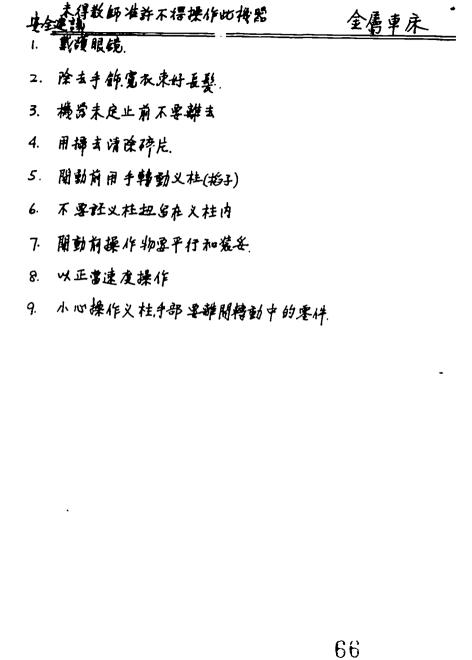
#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

#### SAFETY SUGGESTIONS

- Year approved eye protection. 1.
- 2. Remove jewelry, eliminate loose clothing and confine long hair.
- 3. Do not leave the machine until it has stopped.
- 4. A brush should be used to remove chips.
- 5. The chuck should be turned by hand hefore starting.
- 6. Never leave chuck wrench in chuck
- Stock should be balanced and secured before starting. 7.
- Operate at the correct speed for the job. 8.
- 9. Handle chucks with care; keep hands away from moving parts



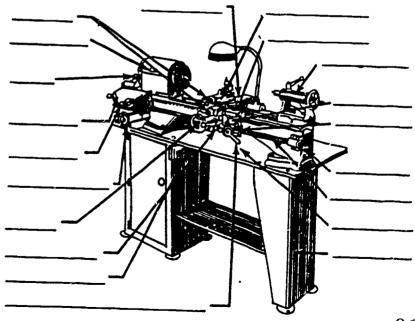




Student Name Class Date		-	金属辛庆	塑生。杜名 张氏		
AVETY. QUIZ	Grade	_		в <b>у</b>		t
			安全测验			
			1. 单用搏击清除碎比.		· "Ł	沣
A brush should be used for removing chips.	. <b>r</b> 1	7	2. 尾承鞍不须要装在。	≢⊼ E	4	
The tail slock need not be secure to the bed	. <b>r</b> 1	F			是	*
The chuck wrench remains in the chuck when t machine stops.	he		3. 雪横器停止特义柱。	包磨留在义柱内	£	#
-	r i	r	4. 開動前用手去轉動相			•
It is safe to turn machine by hand before st		7	······································	それたそ金的	Æ	样
Measurements should be made while the machine stopped.	• 18 T 2	,	5. 曹操器停止转便可以	《董度大小孟短	是	柞

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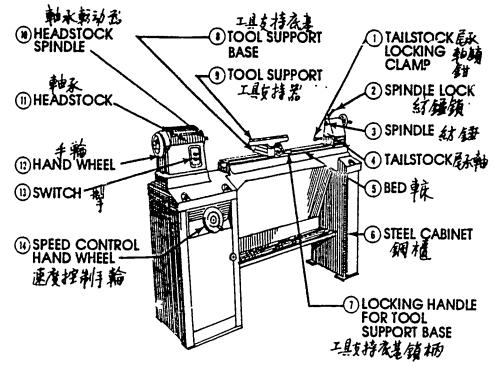
#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

# Wood Lathe

S-5.13

#### SAFETY SUGGESTIONS

- Eye protection must be worn. 1.
- The tool rest must be close to the 2. work when cutting tools are being used.
- The cutting tools must be kept sharp. 3.
- Do not feel for smoothness of work 4. while machine is running.
- Work must be centered, balanced and 5. secured.
- The tool rest must be ismoved while 6. sanding.
- Examine setup before turning on power. 7.
- Shut off power while cleaning machine. 8.
- Long hair and loose clothing must be 9. appropriately confined.





		<u>Chinese</u> Versi
	末得教師准許前不得操作此神器	木車床
4	生全提議	
1.	戴陵眼镜	
2,	雷用切刀脖工具 - 定要靠近势作物	
З.	切削工具一定要保持航利	
4.	雷机器在轉動摔不要用手 去摸滑度,	
5.	苏作物-定要蕴好在正中和平衡.	
6.	宫用沙纸磨滑暗工具要拿走。	
7.	黄動马達前一定要检查装备.	
8.	营清理构器脖 要開掉馬速。	
9.	豪馨和寛衣一定要遭雷地束好.	

MOOD	LATHE
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Student Name	
Class	
Date	Grade

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## SAFETY QUIZ

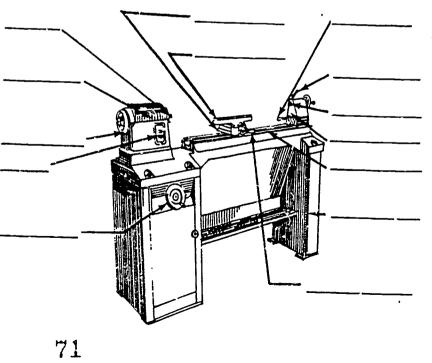
S-5.14

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:	1.	The speed of the machine is not important for safe operation.			
	2.	A space of 1" is safe between the tool rest and	Т	F	
		the work.	т	Z	
	3.	Eye protection is not necessary during operation.	т	F	
	4.	Dull tools may be used.	т	F	
	5.	It is safe to feel for smoothness while turning.	T	F	
		The tool rest should be removed while sanding.	т	P	
	7.	It is safe to turn work that is not balanced.	ſ	F	
	8.	Long sleeves may be worn while operating.	т	F	
	9.	The cutting tools snould be held loosely.	T	F	
1	0.	The hair should be confined while operating the machine.	т	F	

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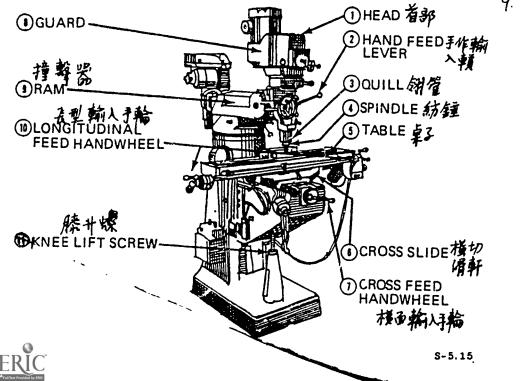
	木車床	学生任名 促别		
1	<u>安全測論</u>	a	成績	
I.	機器的速度對操作主要	全不重要	是	柞
2.	工县架钢英作物之間!	对距離是安全的.	是	非
3.	操作时不必要戴謹眼镜,		是	柞
<i>4</i> .	可以用铑的工具.		是	柞
5.	在机器鞋動特击威觉滑;	变量安全的.	是	柞
6.	在磨沙船左把 工具架移	ŧ	是	柞
7.	操作不平衡的劳作物是	安全的	是	华
8.	操作转可穿着袖衣服		是	柞
9	座縣 2 地特者切尋		是	祚
10.	曹操作祸器特应束起责	4 5 ·	~ 是	•
				柞

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OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

#### SAFETY SUGGESTIONS

- Make adjustments and measurements only when the machine is at a complete stop.
- 2. Material being machirod must be properly secured.
- 3. Make sure the cutter is rotating in the right direction. Feed against the cutter unless the machine is capable of climb cutting
- 4. Handle cutters carefully as they are sharp.
- 5. Keep fingers a minimum of 6" from the cutter
- 6. Take care to prevent jamming the vise or the work into the column, cutter, etc.
- Start your own machine and remain with it until you have turned it off and it has come to a complete stop.
- 8. Never clean chips away from cutter while machine is running.
- 9. Eye protection must be worn.



Milling Machine						
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the <b>the</b>						
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mb cutting.						
sharp.	61g					
e cutter.	SEB					
e or	Palha					
c.	SIDO					
ab 40 mag 42 man b						

;	木得教師准許不得用此機器 旋削機
1	过端
1.	只有在 機器 完全停止 時才調整和量度
2.	操作材料-定要直雷地装好.
3.	確和切刀朝正確方向運転,除非机器可以攀切否则對着切刀输入
4.	切刀锐利小心運用
5.	手指要離切刀最少6吋
6.	小心不要轻劳作物稳塞在构成的社子切刀等地方。
7.	發動你自己的機器做不要離開.直至你把横照圈好和完全停止.
8	曹操器转动排不要清理碎儿.
<i>9</i> .	一定要带磺眼镜

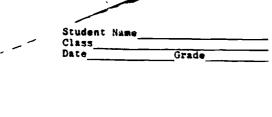
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PLANER-SU	RFACER
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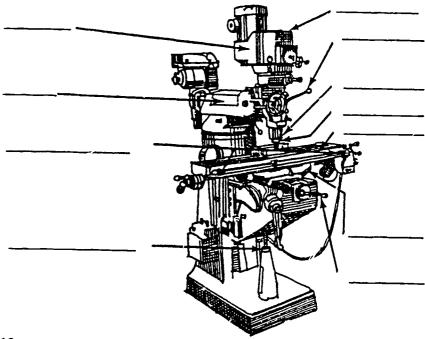


## SAFETY WIZ

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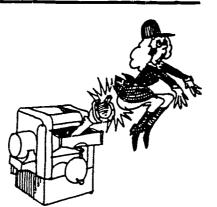
1.	On long cuts it is permissible to leave the machine while on automatic feed.	т	P
2.	Cutters should be stored loosely on the work bench.	т	P
3.	Eye protection should be worn at all times.	T	F
4.	Swarf chips can be wiped away with the hands.	T	P
5.	The automatic rapid feed should not he used when the stock is closer than 6" from the cutter.	т	F
6.	Handles should be disengaged when on automatic feed.	Ŧ	P

	旋削攒 攀生性:	<u> </u>	
-51	日期		
1.	當机器在自动输入時可被准離開	是	柞
2.	切月庄務;地投市工作枯止。	¥	柞
3.	牵戴遵服镜	£	柞
4	小碎儿可用手抹台.	Z	柞
5.	常劳炸物乖距切刀 6 对時不得使用自	动输入 是	柞
6.	官自动输入時初子な降台	差	柞



#### OUTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.





#### SAFETY SUGGESTIONS

- 1 Approved eye protection must be worn.
- 2. A "backer board" should be used when planing thin stock.
- 3. Do not force material through planer.
- 4. Do not remove chip accumulation while machine is running.
- Do not stand directly behind the machine or in the line of kick back.
- 6. Do not look into the throat of the surfacer when it is running.
- 7. Be sure to select the proper speed and depth of cut.
- 8. The board being surfaced must exceed the minimum length established for that particular machine (check with instructor).

杀得数比准許不得操作比梯器 捕₽

## 老金提講

- 1. 一定要戴通雷的磺服镜
- 2. 曹設計薄木墨雲用支撑板
- 3. 不要用力把材料推进捐平机.
- 4. 在机器未停止時不要请理堆精的木碎
- 5 不曾直接站立座执器领面
- 6. 曹彩动鲜不要容者捎平机之顺部
- 7. 確知選擇倒切的正確逆重和深度
- 8. 切柜的平面一定要超过最低的特别設計机器的丢废.

#### PLANER-SURFACER

> Student Name\_\_\_\_\_ Class\_\_\_\_\_ Date\_\_\_\_\_ Grade

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#### BAFETY QUIZ

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**V**ariation of the second seco

1.	Instructor's permission is required to operate the machine.	т	7
2.	Eye protection is required to operate machine.	T	P
3.	Chips may be removed while machine is running.	T	F
4.	It is safe to plane wood with loose knots.	T	7
5.	If material becomes stuck, it is safe to stop machine.	т	F
8.	Line of sight should be through the throat of the machine.	T	P
7.	Assistance should be obtained when planing long pieces of wood.	т	P

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## 安全测验

I	操作机器 一定要得 数鲆准許	星	柞
2	苯作机器 一定要戴 謹 眼鏡	Ŧ	柞
3	机逆轴动時 可以清理盾龙	Ę	柞
4	用最权击捕求主要全的	÷	非
5	如器材厚死非机力停止机器是县全的	Ę	柞
ŕ	视镜应给过机混钢顺部	Ę	柞
?	當制 丧未辞 安有望 于	er.	柞

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#### DBTAIN PERMISSION FROM THE INSTRUCTOR **Offset Printing Press** BEFORE USING THIS MACHINE.



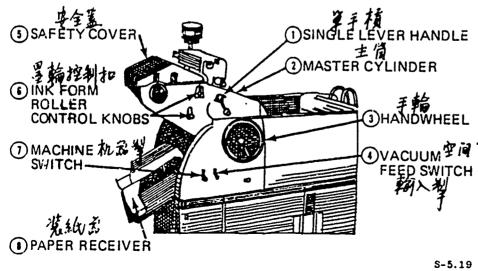
#### SAFETY SUGGESTIONS

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- 1. Operate the press only when all guards are in place and properly adjusted.
- 2. Never reach for misprinted or dropped paper while the press is in operation.
- 3. Do not make internal adjustments while the press is in operation.
- Do not clean the press while it is in operation. 4.
- The instructor should determine the operating speed. 5.
- Never reach across the press while it is in operation. 6.
- 7. When finished with the press, it must be clean and all paper, equipment and tools must be returned to proper storage.

- 1. 雷所有的護军都冠各私朝整好才開始操作印刷.
- 2. 官印刷醋永不去取叩错的缺篇的纸选
- 3. 曹操帅暗不要帅内护相整
- 4. 當印刷詩不要情理.
- 5. 数部在决定操作注度。
- 6. 常操师好不要仲子过换器
- 7 印刷完後,一庆要请理会部航疆得器和工具一定要好好放回原住.



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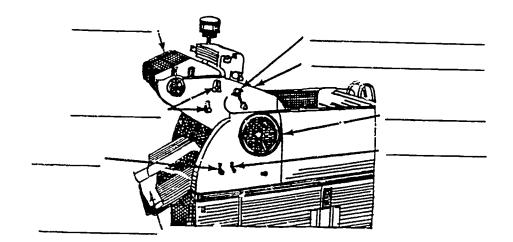
OP.	FSET PRINTING PRESS	Student Name ClassGrade_ DateGrade_		-		品权印刷棋:	弹生始名 极制		<u> </u>
SAL	ETY QUIZ								
* <b>x</b>					-	经金训、输			
1.	The gears need not be covered is in operation.	d wille the press	т	F	1.	管印刷脖不不要盖	扬格	是	柞
2.	The machine must be stopped I or dropped paper is removed i	betora misprinted from the press.	т	F	2	女侍除印错的或缺祸	告诉就强持一定要停止机器	是	柞
3.	Final adjustments may be made is running.	e while the machine	T	F	3. 4. 5.	當机眾運転時可始; 小心操作時無人站在 握你時中干土拨品」	最待朝整 你附近 星袋全妇.	是是是	<b>花転</b> 非
<b>4.</b>	Yoı should be alert to keepir the press while it is in oper	ng others away from ration.	T	F				$\sim$	4
5.	It is safe to reach across th is operating.	ne press when it	т	F					

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#### SAFETY SUGGESTIONS

BEFORE USING THIS MACHINE.

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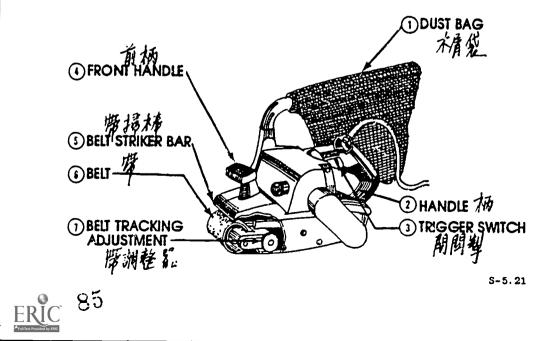
1. Wear approved eye protection.

OBTAIN PERMISSION FROM THE INSTRUCTOR

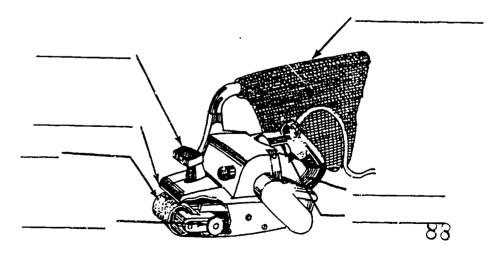
- Check to see if belt is properly installed and in good condition before starting.
- 3. Start sander above work; let rear of belt touch first.
- Keep the electrical cord clear and the dust bag away from the sander belt.
- 5. Lift sander off the work before stopping.
- Wait until belt is completely stopped before placing sander on bench.
- 7. Empty dust bag daily into proper waste container.



11	全建議
Ι.	戴合通的镜眼镜.
2.	開动前检查掷墨否通常地装好及完備
3.	至荐你物上奢沙.汪带之经却先接觸.
4.	保持官部带请偿及木库税跖離案以偿
5.	变峙也前先把萨炸物自禁沙器上控整
6.	茨唐岁品在橙上前得得毕完全停止
7.	日十清理木屑袋王裔物箱内



BEI	LT SANDER Student Name Class DateGrade			Ţ	審げ帶 学生姓名 短期 日-リ		
<u>Sai</u>	TETY QUIZ			4	4全洲、赣	( )	
1.	Eye protection is required when using this machine.	т	P	Ŀ	用比栉冠脖果戴護眼镜	是	祚
2.	You should have a firm grasp on the sander before starting.	т	¥	2.	開动前你要拿禄唐げ器	是	ギ
3.	The sander should rest on the work when starting.	т	r		<b>宫湖始時唐伊器</b> 座放在窗4年上	定	并
4.	A wood sander should not be used on steel.	т	r		木磨竹器 不应用症 鋼 缺上	是	养
۶.	This machine should be examined before starting.	Т	7	ۍ ۲	開始前座核查此机器	是	祚

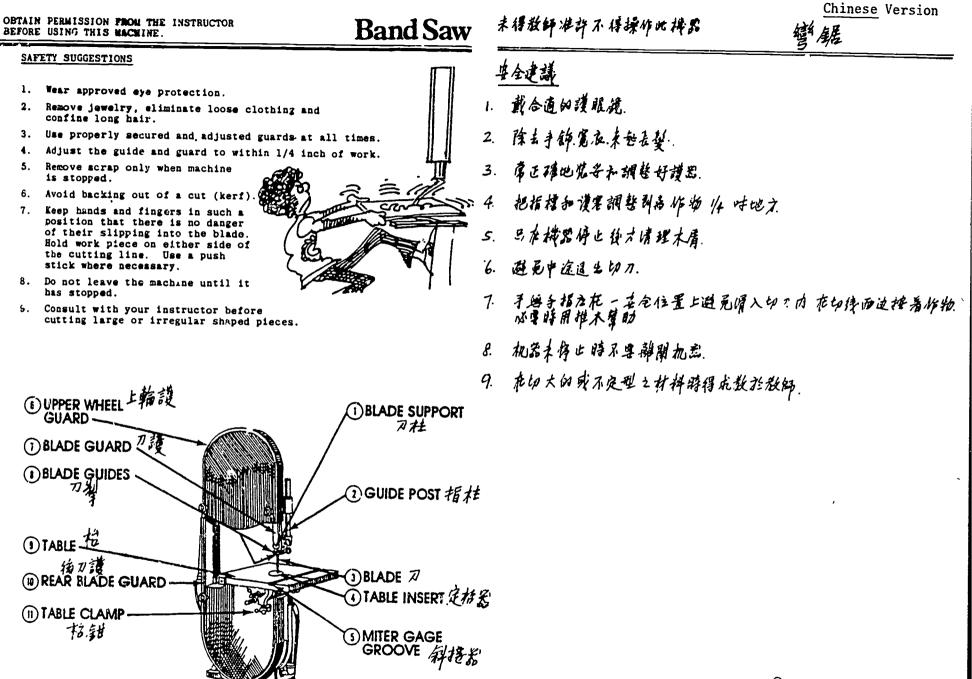


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<u>Chinese</u> Version

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5-5-24 ERI Student Name\_\_\_\_\_ Class\_\_\_\_\_ Date\_\_\_\_\_ Grade

#### SAFETY QUIZ

<ol> <li>It is safe to tilt the table for cutting bevels.</li> <li>The lower band wheel does not require a guard.</li> <li>The saw should be stopped by forcing a piece of wood against the blade.</li> <li>The blade guard should be adjusted to about 1/4" from this work.</li> <li>It is safe to use the fance for cutting several pieces of wood to the same length.</li> <li>The hands should come no closer than 2" from the blade.</li> <li>The blade guides should be adjusted tight against the blade.</li> <li>The hands should come no closer than 2" from the blade.</li> <li>The hands should be made sith the power off.</li> <li>Eye protection is not required when operating a band saw.</li> <li>Adjustments should be made sith the power off.</li> <li>Eye protection is not required when operating a band saw.</li> <li>If the work does not cut easily you should:         <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ol>	13	8.	т	F
<ul> <li>3. The saw should be stopped by forcing a piece of wood against the blade.</li> <li>4. The blade guard should be adjusted to about 1/4" from this work.</li> <li>5. It is safe to use the fance for cutting several pieces of wood to the same length.</li> <li>6. The hands should come no closer than 2" from the blade.</li> <li>7. The blade guides should be adjusted tight against the blade.</li> <li>8. Instruc, r's permission is required to operate a band saw.</li> <li>9. Adjustments should be made with the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should:     <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>			т	P
<ul> <li>5. It is safe to use the fance for cutting several pieces of wood to the same length.</li> <li>6. The hands should come no closer than 2" from the blaue.</li> <li>7. The blade guides should be adjusted tight against the blade.</li> <li>8. Instruc, r's permission is required to operate a band saw.</li> <li>9. Adjustments should be made sith the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>	of	f wood	т	-
<ul> <li>5. It is safe to use the fance for cutting several pieces of wood to the same length.</li> <li>6. The hands should come no closer than 2" from the blaue.</li> <li>7. The blade guides should be adjusted tight against the blade.</li> <li>8. Instruc, r's permission is required to operate a band saw.</li> <li>9. Adjustments should be made sith the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>	/4	4" from	•	•
<ul> <li>6. The hands should come no closer than 2" from the blaue.</li> <li>7. The blade guides should be adjusted tight against the blade.</li> <li>8. Instruc. r's permission is required to operate a band saw.</li> <li>9. Adjustments should be made with the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>			Т	P
<ul> <li>7. The blade guides should be adjusted tight against the blade.</li> <li>8. Instruc. r's permission is required to operate a band saw.</li> <li>9. Adjustments should be made with the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>			Т	F
<ul> <li>a. Instructory of the second second</li></ul>	th	he blaue	. т	P
<ul> <li>9. Adjustments should be made with the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>	La	nst	т	P
<ul> <li>9. Adjustments should be made with the power off.</li> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>	5	4		
<ul> <li>10. Eye protection is not required when operating a band saw.</li> <li>11. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul> </li> </ul>			т	P
II. If the work does not cut easily you should: <ul> <li>(a) speed up the blade</li> <li>(b) push harder</li> <li>(c) replace the blade</li> <li>(d) check with your instructor</li> </ul>			Т	7
<pre>(a) speed up the blade (b) push harder (c) replace the blade (d) check with your instructor </pre>	2	a band	т	P
(b) push harder (c) replace the blade (d) check with your instructor				
		/-		
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安全	iAI	龄
-1 -2	174.1	WYXX.

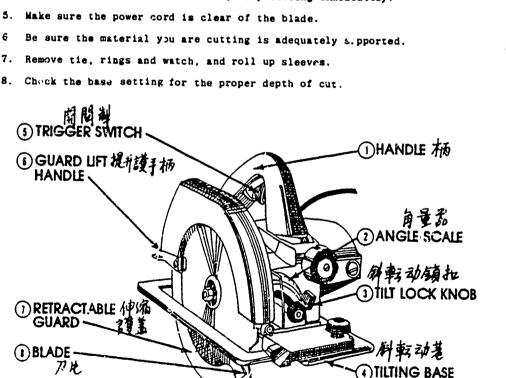
1.	切斜角规時転动桌子是安全的.	BM	柞
2	弯輪的下半却不需有護蓋.	and the second sec	拃
3.	迎著几把一端木材摊过专可使错停止.	Je z	柞
4.	刀蹼座調整幕荫饰物 华 咕 位置	是	柞
5	切故愧闭禄大小木材時用補栅是安全的	是	柞
Ь.	手座離刀最少 2 时地方。	Ł	柞
7	启把刀引對正刀調整至緊	£	华
8	操作重锯左得教御准许	e.	柞
9	制料导速方可调整描码	£	帅
10	操作考错時不須設師准許	是	1
H	如康周聪彩切木時放左		Ĭţ
	A.加速力比 6.周力接		
	C.换刀尾, D. 水数武老锅		
	1		

#### BTAIN PERMISSION FROM THE INSTRUCTOR Portable Circular Saw JEFORE USING THIS MACHINE.



SAFETY SUGGESTIONS

- 1. Make sure that telescoping guard returns automatically to cover the blade after each cut.
- 2. Do not set saw down until blade stops.
- Eye protection must be worn while using saw. 3.
- 4. If the saw blade binds or smokes, stop cutting immediately.
- 5.
- 6
- 7.



	末得数鲆准許不得操作比横器	手提圆堑
	安全建議	
Į.	庄舟约一刀後碓扣挤撞满盖自动田転至	置下.
2.	直至刀龙已停止時才放下驢	
3.	用貂脖一定要上蹼眼镜.	
4.	如刀龙楼绑或冒烛属上停止割切	
5.	雄庄刀龙上之马建带清縻.	
6.	確知切割中的材料正 確地支撑着	

- 7. 隆玉録帶,戒指和手錶.捷起衣袖.
- P. 核查机底之正確切的理准。

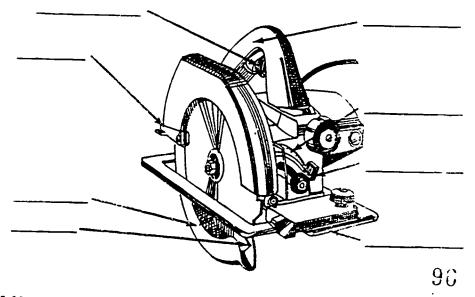
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S-5.25

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901	TABLE CIRCULAR SAW	Student Nare ClassGrade				手提圓鋸 雙生	出去	
SAI	ETY QUIZ					级别。 8期	B	ž
		-			:	安全测验		
1.	Permission should be obtaine operating this machine.	ad hefore	т	P	Ι.	舟操作比机云前字得数辆准部.	是	柞
2.	The guard can be wedged so t not be operable.	that it will	т	P	2	設置可能会嵌着所以不可操作	是	柞
3.	Eye protection is not necess using this machine.	ary when	-	-	3	用比机器時不必要戴護眼镜。	是	柞
4.	You should not set the saw d	lown until	Т	P	4	直到辖完全停止不应获下部	Ę	柞
	it has completely stopped.		Т	F	5	器先应伸盘主动斜材料 炉 对厚度的	口地东 是	柞
J.	The saw blade should extend beyond the thickness of the	about 1/8" material being cut.	т	F				-



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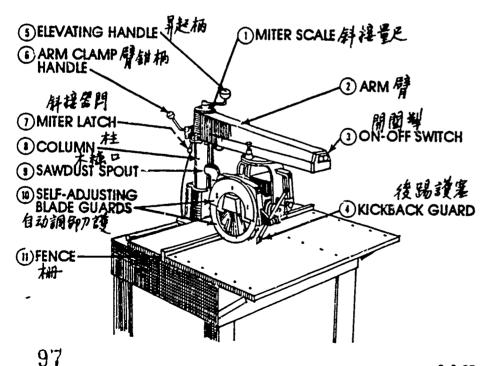
S-5.26

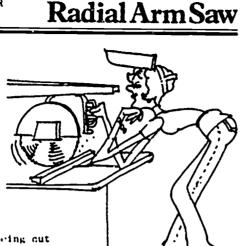
## OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

#### SAFETY SUBJESTIONS

ERĬC

- 1. Be sure that the suw travels easily on the arm.
- 2. Be some that the blade will not extend beyond the front of the table.
- Before starting make sure that the guard telescopes properly.
- Make sure that the blade is stopped before leaving the machine.
- 5. Make sure that the material being cut is tight ugainst the isnue.
- Eye protection must be worn while operating this machine.
- 7. Be sure the saw returns to the rear of the table at the completion of the cut.





- 未得数邮准并不得操作比换器 旋臂锯 安全建講 確和鋸在臂上運転自知.
- 2. 確知刀片不会伸过栏的前面.
- 3. 開动前確和這該正確地嵌入。
- 4. 離開機密前確知刀比已停止.
- 5. 確和被切物緊绑於樹上
- 6. 操作時一定要帶護服纜
- 7. 碓扣在完成割切换船田利档的颜面.

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RADIAL ARM SAW

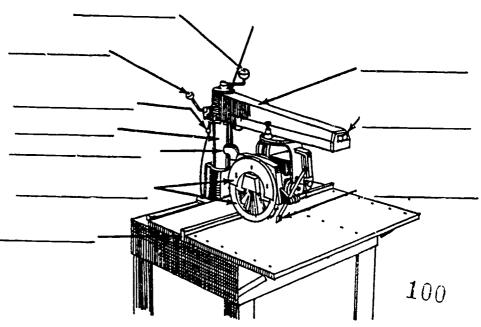
Student Class	Name		
Date		Grzde	

#### SAFETY QUIZ

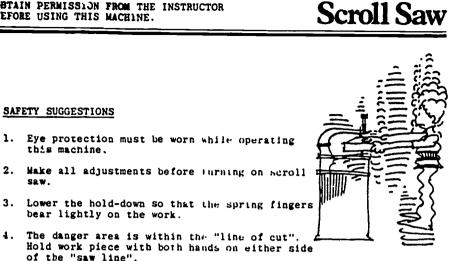
1.	Eye protection is not . acessary except when ripping.	т	7
	You may leave the machine as soon as you have pushed the "off" switch.	-	_
-		T	F
	The guard must be in place when $r \circ pping$ .	T	P
4.	The saw blade may extend beyond the table.	т	F
5.	The blade should he installed so that in cross cut position the teeth at the bottom of the blade point away from the operator.	т	F
6.	When ripping, one hand must hold the material and the other hand operate the saw.	т	r
7.	In cross cutting, the saw should automatically return to the rear of the radial arm upon the completion of a cut.	-	•

war in the

	旋臂艇	学生性名		
		8 #		
-71	(全测)。			
1.	除非聪明否则不用戴遵服	鍵.	是	柞
2.	雪你按下"off"掣脖即可备	関机器	是	柞
3.	碧日時護蓋一定要定位.		£	柞
4.	锯花可以伸过枯雨		Æ.	柞
5.	刀龙季荒好所以在横口伧 着操作者	置時刀龙不 全對	是	作
6.	庇持口時,留左自彰四到施	骨舷征面.	是	柞



#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

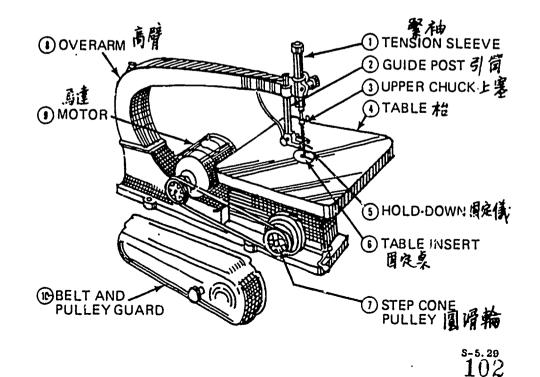


- Shut off power and clean the machine before you leave it. 5.
- 6. Avoid overloading the machine by feeding the stock too fast.
- Avoid pinching the blade by turning too sharply. 7.

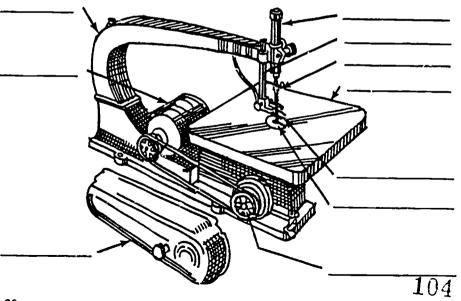
朱得教師准存不得操作此機器 调鼯

安全定語

- 1. 操作時一定要載證服鏡.
- 2. 在転动渴镭前調整机器
- 放低稳定器使弹簧轻轻贴在带作物上. 3
- "切卷内是危险地带用双子扶着劳炸物在"鳝凭,送话. 4.
- 在離開机器前間掉鳥達诸理机器. 5.
- 6. 避民输入势作物过度以使机器员持调重.
- 7. 避泥转动得太厚害 使忘着力气



<b>S</b> C	ROLL. SAW	Student Name Class DateGrade				温艇	华生性名 极别		<u> </u>
.(ÉA	VETY QUIZ					<u> 中全測驗</u>	a .HJ		
1.	If the blade pinches in the k stop the machine.	erf do not			1.	假如刀龙扶着锯口不:	要停止 横器	是	柞
			T	P	2.	一定要戴護眼鏡		是	柞
2.	to processon must be worn.		T	P	3.	不必要使劳炸物的平。	面附於桌上.	足	柞
.3.	It is not necessary to have t the stock next to the table.	he flat side of	T	P	4.	•	4	是	柞
4.	Fingers should be kept away f	rom the line of cut.	T	P	5.	宙踞在転动中時可調!	整株であ	是	柞
5.	Adjustments may be made while	the saw is running.	T	F	6.	固定器左轻轻放在旁。	作物上	是	柞
6.	The hold-down should bear lig	htly on the work.	T	F			•		1



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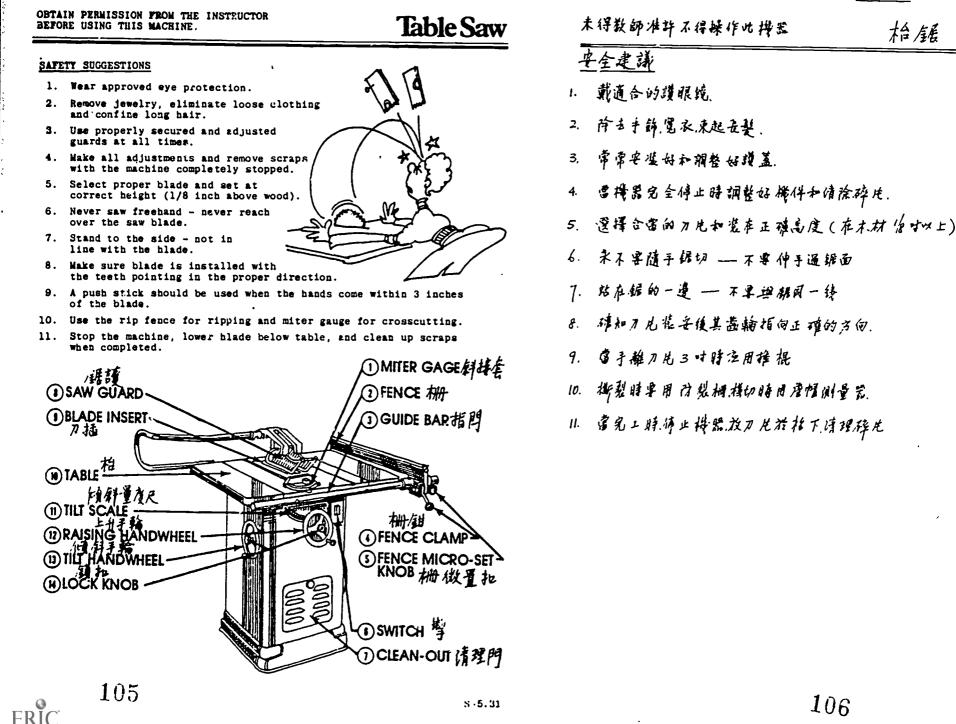
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Full Text Provided By ERIC

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拾騷



Student Name				检解	学生相名		
			-	安全测验	a #		
be used. necessary. to stand directly behind form when using a table saw. adjusted so that the teeth clear by the depth of the teeth. i be used when ripping long	T T T T T	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1. 2. 3. 4. 5. 6. 7.	随于解物是安全 左常用相栅。 不常宫坐道道。 宫髦問時最好直 常兒服時友發譜 能凡左捕咎到其 當斯裂丧太時常	接站座刀 龙领面 眼镜: 齿輪超材料厚度相角 客一笔杀或滑輪:	足足 是是是是是	* 非非非非非
	ClassGrade DateGrade ad. be used. necessary. to stand directly behind uorn when using a table saw.	ClassGrade DateGrade net_essary. T to stand directly behind to stand directly behind T uorn when using a table saw. T adjusted so that the teeth clear h by the depth of the teeth. T d be used when ripping long T	Class       Grade         Date       T         P       F         Date       State         T       F         Date       State         T       F         Date       State         T       F         Date       State         Date       State         T       F         Date       State         Date       State         Date       State         Date       State         Date       State         Date       State         Date	Class	Class       Grade       AD 描述         Date       Grade       I. 随手能物是学生         ad.       T F       I. 随手能物是学生         be used.       T F       2. 左常用補細.         necessary.       T F       2. 左常用補細.         to stund directly behind       T F       3. 不常意要講系.         to stund directly behind       T F       4. 常說問結果付直         uorn when using a table saw.       T F       4. 常說問結果付直         adjusted so that the teeth clear       T F       5. 常用解峙左說講         i be used when ripping long       T F       6. 能戊左 捕咎 利共         i be used when ripping long       T F       7. 當斯製基太時常	Class       人吃佛       小水水水         Date       Grade       小水水水         Date       Grade       小水水水         Date       Grade       小水水水         Date       Grade       1          中国       日本         Date       Grade       1          中国       日本         Date       Grade       1          中国       日本         Date       T       F         Date	Class       Grade       ADAK       ADA         Date       Grade       ADA       ADA         Date       Grade       ADA       ADA         Date       Grade       ADA       ADA         Ada       T       F       Ada         Ada       T       F       Ada         Ada       T       F       Ada         be used.       T       F       2. 左常用補細.       E         neccessary.       T       F       3. 不常書車講室.       E         to stund directly behind       T       F       4. 雷號間結果母直接站座刀虎槍       E         to stund directly behind       T       F       4. 雷號間結果母直接站座刀虎槍       E         to stund directly behind       T       F       4. 雷號間結果母直接站座刀虎槍       E         to stund directly behind       T       F       4. 雷號間結果母直接站座刀虎槍       E         to stund directly behind       T       F       5. 富用解特 本戴譜是       E         to stund directly behind       T       F       5. 電影開解持足母直接站座刀虎槍       E         to stund directly behind       T       F       5. 電用解特定載線       E         to stund directly behind       T       F       5. 電用解特定載       E

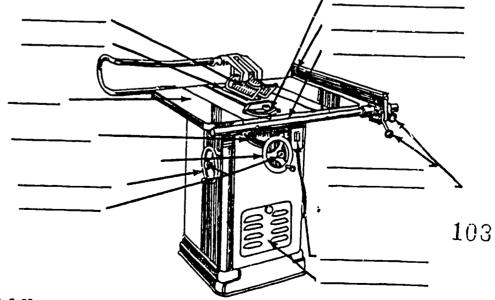
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### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

# Metal Shaper



#### SAFETY SUGGESTIONS

- 1. Wear approved eye protection.
- Make adjustments and measurements only when the machine is at a complete stop.
- 3. Securely mount the work piece in the holding device.
- Make certain that the ram and head will clear the work and holding devices.
- 5. Keep hands and fingers a minimum of 6 inches from the cutting tool and all other moving parts.
- 6. Avoid laying tools on the machine.
- 7. Avoid standing directly in front of or behind the ram.
- 8. Make sure machine comes to a complete stop before leaving it.
- 9. Never remove chips while the machine is in motion.
- Return the machine to normal and all tools and equipment to the proper storage place.

金属成形横

未得教師准許不得操作比機器

### 安全建議

- 1. 戴合直護眼鏡.
- 2. 调整和量度得要等棒器完全停止時行之.
- 3. 稳雷地将金属先结在器械上.
- 4. 確和机械上的鉗子和首部已整禧(桂擊眾)
- 5. 将手和手指最少保接做切具和转動中的零件 6 对英上的距離
- 6. 避免得工具放在横器上。
- 7. 避免站在撞擊器的前或後面.
- 8. 離開機器崩確知機器已完 停止.
- 9. 雷机器轉动中切力滑理碎物.
- 10. 将机器四到正常工具装备放四通雷的磷碱地方.



•. <b>.∖</b> _" -	IETAL SHAPER	Student Name Class DateGr	ade			全属成形模·		
- <u>5a</u> 1	ETT QUIZ					8 _M		
				•	1	安全测验		
1.	It is permissible to use comp remove chips while the maching	ressed air to le is running.	T	P	1.	當機器在轉動中時可以壓缩空氣去腈涂屑比.	是	柞
.2.	Eye protection must be worn.		T	7	2.	一定要戴瑾眼镜	是	柞
з.	A heavy cut may get the job d but also could be unsafe.	lone more quickly	т	P	3.	一大切割可以加快完成药作,但本可能不安全.	是	柞
4.	Chips may be removed while th	le machine is running	-		4.	雷楼器特勤時可以清理木盾.	£	柞
	All clearances should be chec			•	5.	宫間彭擅擊器府定要激為檢查.	是	柞
	is set in motion.	The percia the law	T	F	6.	全却装备须要得利教际的准辞.	¥	兆
6.	All set-ups should be approve	d by your instructor	. т	7				1

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8-5.34

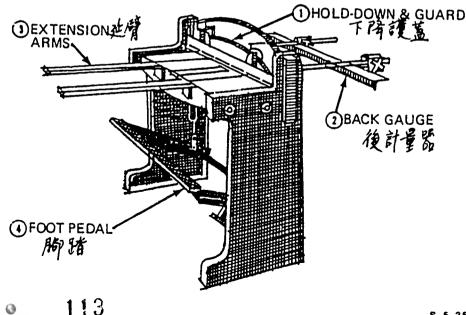
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# **Metal Squaring Shear**

### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

### SAFETY SUGGESTIONS

- 1. Check setup and machine before operating.
- 2. Never surpass the capacity of the machine.
- 3. Feed and operate from the front or the operator's position.
- Always keep your fingers away from the pressure bar and blude, a minimum of 4 inches.
- 5. Keep the foot that is not being used out from under the treadle.
- Allow small pieces to drop; do not attempt to catch them.
- Remove hurrs before working; gloves or pads are recommended for handling sheet metal, especially large pieces.
- 8. Place scraps or trimmings in metal waste container and return machine to normal position.
- 3. Whenever two people are needed to operate the shear, one shall be the operator, the other the helper.



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施.				

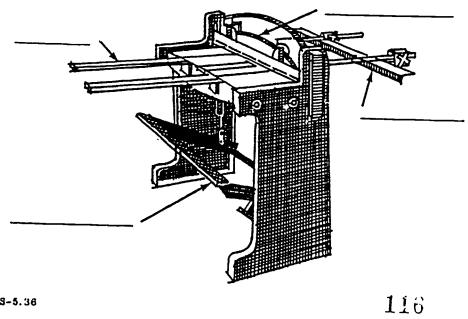
## 未得数的准許不得操作比机器 才型金属剪床

### 安全建議

- 1. 在操作前檢查装储及机器
- 2. 永不要超過機器的容量。
- 3. 翰入5操作時由操作者的前方或位置進行.
- 4. 手错要保持4时以上5氯摩梯和刀片的距離.
- 5. 不要把置陶的一足置於蔚床下.
- 6. 客部小体模如屏花盖地,不要雪就去挂着它。
- 7. 工作前先请理粗糙乱缘在操作金属先尤其是大的 舍嗝先最好用于套
- 8. 完工後将碎片放入廢物箱把提留放回原来位置
- 9. 當情沉湎要二人操作剪床時,一人员责操作,另一人运算手.

-

ME	TAL SQUARING SHEAR	Student Name Class Date	Grade	<u> </u>		方型全霉剪床	攀生性名 级别			
<u>, sa</u> :	TETY QUIZ				늰	生劑驗	ə .¥A	<i>Ř</i> ,	'绩	
1.	Feed and operate from the tre of the machine only.	adle side	Ť	F	Ι.	输入杠揉 時已站在腳踏	按秉	是	并	
2.	It is permissible to let smal drop into a box as they are c	1 pieces		-	2.	雷切割特准許小魂砕儿跌	浩石子中	是	祥	
3.	Two students may operate the		Т		3.	网国学生可以共国操作剪	<b></b>	是	柞	
			Т	2	4	有些劳炸可以移去;遵 <u>盖</u>		是	并	
5.	For some projects the guard c		T	P	5.	御路板婆難地2 吋		是	柞	
J.	The foot treadle should be so there is a 2" floor clearance of a stroke.	arranged that at the bottom	T	P						



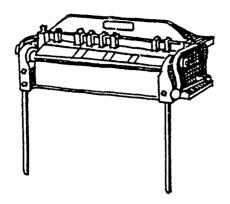
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#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THESE MACHINES

### **Sheet Metal Machines**

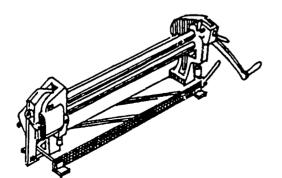




### SAFETY SUGGESTIONS

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- Remove sharp burrs and edges from sheet metal before attempting to work it in the machines.
- Never attempt to bend, roll, crimp, bead, etc., metal which is heavier than the capacity of the machine.
- 3. Keep hands and fingers clear of moving parts.
- 4. Never work more than one thickness of metal at one setup.
- 5. Avoid slamming or dropping the handles of the machine.
- 6. Be careful that moving parts or metal do not strike others.
- 7. Take care not to place hands in a position that will allow them to slip into the rolls, jaws, etc.



### 末得数師准許不得操作此機器

全管板楼器

### 安全建議

- 1. 曹曹武在掷器上操作时先清理会属极之粗糙无缘
- 2. 永不嘗試古彎曲滾転捲編串起比機器容量較大的 金属肥
- 3. 手和手指要離開転動中的零件.
- 4. 每次装备只能操作一有厚度的全属板.
- 5. 避免研发関閉或跌下拼容的柄.
- 6. 小心韩刻中的零件和全属不互相撞擊
- 7. 小心不要配手谓建糖糖酱糖子中.

SH	EET METAL MACHINES Student Name			全属板横器 攀生性名		÷····
<u> 29</u>	DateGr	ade		安全测验		
<u> </u>	The infeed rolls of a roll machine are dangeroue to the operator's hands.	т	7	1. 这轉输入拱已對操作并的手号见脸的.	Ł	柞
: 2.	Sheet metal machines con be damaged by	-	-	2. 遭載會揚び会属权。	是	柞
	overloading.	T	F	3. 在曹武操作横器前先隆理粗糙的緣	是	柞
)   	Sharp burrs and edges should be removed before attempting to place in the machine.	т	F	4. 手指不要靠近转動中的零件	是	柞
5 5 <b>4.</b>	Fingers must be kept clear of moving parts.	T	F	5. 全属权模器厅以觐造年叶厚柔拥	是	柞
<b>5.</b>	Quarter inch mild steel stock can be formed on the sheet metal machine.	T	P			

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#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.



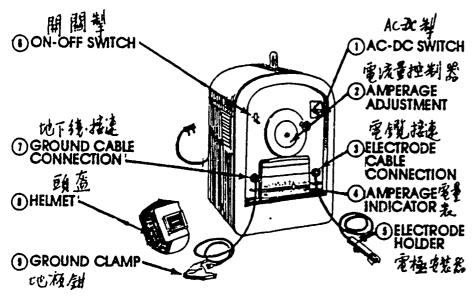
ArcWelder

#### SAFETY SUGGESTIONS

- 1. A welding helmet must be worn when welding.
- 2. Proper ventilation must be ávailable.
- 3. Goggles must be worn when chipping slag.

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- 4. Others in the area must be warned prior to striking an arc.
- 5. Gloves and proper clothing must be worn when welding.
- Closed containers should not be welded without the instructor's permission.
- 7. Do not stand in wet areas while welding.
- Screens to protect others must be in place before welding is started.



# 未得教師准許不得操作比機器

# 弧形熔灯树

### 

- 1. 烧灯特-定季带颈盘.
- 2. 粤有遗合的遁風改储
- 3. 雪切熔渣時,一定要带護日镜。
- 4. 開始烧焊前確知無利,站在工作匾
- 5. 手套私合逋的礼服3烧焊時必要的.
- 6. 封蓋的容容未得致師准許不得烧焊
- 7. 常凭焊睁不要站在强谓钳地子.
- 8. 雷開始烧焊前一定要孪轻保護别人的胚段。

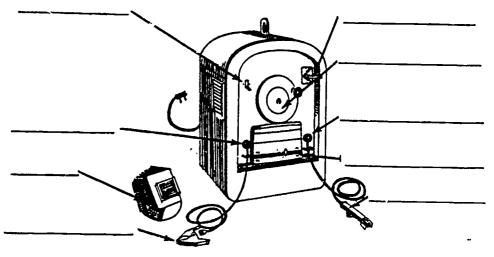
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注AFETY QUIZ </th <th></th> <th>RC WELDER Student Name Class Date</th> <th>Grade</th> <th></th> <th>弧形熔</th> <th>焊機</th> <th>学生姓名 征到 日期</th> <th></th> <th></th>		RC WELDER Student Name Class Date	Grade		弧形熔	焊機	学生姓名 征到 日期		
<ol> <li>You should warn anyone nearby when you start to weld.</li> <li>Goggles as well as a welding hood should be available before you start to weld.</li> <li>A closed container is dangerous to weld.</li> <li>T F</li> <li>Gloves are not necessary when welding.</li> <li>T F</li> <li>It is dangerous to weld without proper</li> <li>T F</li> <li>It is dangerous to weld without proper</li> </ol>	1997 1997	FETY QUIZ							
	2 1	when you start to weld. Goggles as well as a welding hood should be available before you start to weld. A closed container is dangerous to weld. Gloves are not necessary when welding. It is dangerous to weld without proper	T	F P	1. 曹休開始 2. 存休開始 3. 密封佃箱 4. 烧焊時要	烧焊前,顾奁濆日晚 子是对烧焊有无险; 带手宏;	-定要草倍好. 49.	是	· 柞 柞 柞

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#### OBTAIN PERMISSION FROM THE INSTRUCTOR BEFORE USING THIS MACHINE.

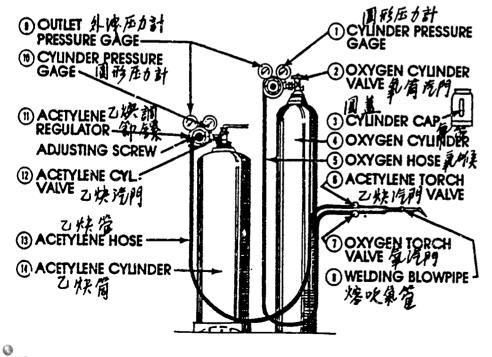
### Oxy-AcetyleneWelder 未得教師准許不得操作比機器

**氢乙炔熔焊機** 

#### SAFETY SUGGESTIONS

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- 1. Do not weld galvanized metal without proper ventilation.
- 2. Do not allow oil to come in contact with hoses or equipment.
- Gas bottles must be erect and secure at all times.
- 4 Protective goggles and sparkresistant clothing must be worn when welding.
- Do not weld or cut on a closed container 5. without instructor's approval.
- 6. Confine all cutting and welding to the designated area in the shop.
- Turn off torch valves when finished with equipment. 7.
- Keep the cylinder caps on the bottlas when not in use. A
- 9. Turn off gas and oxygen at tanks or stations at the end of class session.
- Bend the end of long welding rods to identify hot end 10. and to reduce potential exposure to eye injury.



### 安全建議

- 1.岳遗帝之通風政備不得燒焊鍍鋅的生属
- 2.不要胚油清血细发或含样样脂。
- 3.常常装好空氛税
- 4. 霍洛维特一定要戴詳目镜和防火花衣.
- 5.每数解之准許不得燒炸或切密計的容器。
- 6.在工谣指定之地毁操作切或语焊
- 7.宫用免疫储接關搏汽門
- 8. 营不用時件期零笼好.
- 9. 每重課免時,関連氣和氣箱
- 10.得春辉绿弯曲方证明数端以减少眼睛可能受到倦富的 榔会

### OXY-ACETYLENE WELDER

Student Name\_\_\_\_\_ Class\_\_\_\_\_\_Grade\_\_\_\_\_

### SAFETY QUIZ

1.	Gas bottles may be laid on the floor when not in use.	т
2.	Closed containers are not hazardous to weld or repair.	т
3.	The cylinder caps should be placed on all bottles when not in use.	т
4.	Eye protection must be worn for <u>all</u> welding, cutting and chipping operations.	T
5.	The equipment should not be wiped down with oily rags.	т

# <u>安全刚</u>驗 原不用時可以在自動於

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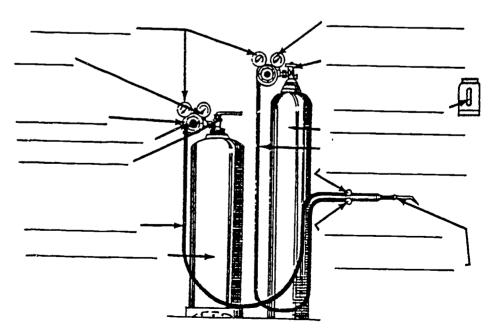
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氧乙炔熔桿棒

1.	雷不同时可以将氯翰放在地极上.	Ł	柞
2.	雪枯的客器盘惹除性(烧煤或修理)	是	柞
3.	营不用時国蓋左強を執子上.	是	柞
<b>4</b> .	所有熔焊切制或疔碎聍一定要戴護眼镜	是	柞
ۍ.	不要用油布专抹模器	是	*



	OPERATION CHECK LIST OXY-ACETYLENE WELDER			操作氧乙炔熔焊横之频骤		
1.	Obtain permission from the teacher to use oxy-acetylene welder.	(	)			
2.	Adjust welder for operation in following sequence:		•	بر بر بر بر مر بر مر المراجب المراجب المراجب المراجب المراجب المراجب		
	<ul> <li>Inspect regulator's adjusting screws to insure that they are all the way out (counterclockwise).</li> </ul>	(	)	1. 操作氧乙炔熔焊机要得教纤准部	(	)
	<ul> <li>Open oxygen cylinder (green) valve slowly.</li> <li>(wide open stand to one side)</li> </ul>		)	2.以以下步骤朝整免已炔熔焊构以倍操作;		
	c. Open acetylene cylinder (red) valve ({ to } turn)	•	ý	a. 檢查所有的購到借是否是及時鏈方句.	()	
	d. Open the torch oxygen valve one turn.	•	ý	6. 慢慢打開第 筒(清色).(方開一站在一旁)	()	)
	<ol> <li>Turn oxygen regulator valve adjusting screw until proper reading is obtained.</li> <li>(See chart for tip being used.)</li> </ol>		)	C.打開乙炔筒(护色)汽門(本王标) O.打開乳汽門(我一週). (1) 降乳汽門調整至能正確地表明度量(每間表)	()	)
	(2) Turn off torch oxygen valve.	(	)	(2)関专集限門。		)
	e. Turn the acetylene regulator adjusting screw in slowly until correct reading is obtained for tip being used.	•		(c)慢上升阿乙炔尼門転至就正確老明度量.	()	)
2	•	(	)	3.继大步起:		
э.	Lighting torch procedure:		••	a.转亡退乙炔火病则包围火花继急至燃乙炒每		
	a. Turn torch acetylene valve 1/16 of a turn, then ignite acetylene gas coming from tip with spark lighter.	,	)	b.重新调整已炔控制器至抗正确表明度量 C.慢;關欧乙炔火关至火從末端雪先站领慢;	()	
	<ul> <li>Readjust the acetylene regulator adjusting screw until the correct reading is obtained.</li> </ul>	•	)	剧性学科主义专口到文性	Ó	
	c. Turn acetylene torch valve on slowly until flame jumps away from tip, then slightly reduce the fuel supply to bring the flame back to the tip.			d.胡锤单长吃阿专取得干隆大关。 我明白以下之操作发臻吗。	()	
	d. Adjust torch oxygen valve to obtain neutral flame.	•	)	1. 當燒焊時於得難發目鏡.		
		(	)	AL 3. T. A. T. IN & L H	<b>भ</b> वि	不明白
	understand the following operating instructions?			2.科永九要放下一熔暑火楼 3.雨来不要在氯压大於 15磅/每平方类时時使用乙炔氯 4.武要小心不要专炮著顺管	明白明白	7 96 7 96
	I must wear welding goggles when gas welding.	Yes	No	4部要小公不要考虑着喉管	明白	不明白 不明白
	I must never lay down a lighted torch.	Yes	No	3.医颅科包设持一定穿得强强强目镜,增值和发展重折。	M/T G	N 11 9
	I must never use acetylene gas at a pressure greater than 15 lbs. per square inch.	Yes	No	四原住. 6.雷燃火前书一定要得教部回意.	明白	不明白
	I must be careful not to burn hoses.	Yes	No		明白	不明白
	I must replace goggles, hoses and torch in proper places and clean up zrea when I am through welding.	Yee	No	伊生姓之教研要文		
6.	I must have teacher check my set up before lighting torch.	Yes	No	下了出在 教好著名		
STU	DENT'S NAMETEACHER'S INITIA	LS				

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