Name:	

# Construction Safety Book and Log Sheet

#### R.S. McLAUGHLIN COLLEGIATE VOCATIONAL INSTITUTE

#### Construction Technology

Student Name			
Student Ivaine			
Instructional area	Date of Instruction	Instructors initial	Student initial
Miter Saw			
Jointer			
Table Saw			
Thickness planer			
Mortise machine			
Band Saw			
Scroll Saw			11.11.11.11.11.11.11.11.11.11.11.11.11.
Router Table			

#### Compound Miter Saw

- 1. If cutting a piece shorter than 8" you must have the instructor present and use the hold down clamp.
- 2. <u>NEVER</u> under any circumstance are you to EVER rip your work piece on a Compound Miter saw. The Miter saw is for cross cutting only.
- 3. Pull the blade back slowly at a consistent speed and allow the blade to cut the wood. Do not cut the wood fast.
- 4. Roll up long sleeves, tie back long hair (ponytail behind back), and remove jewelry (bulky rings, necklaces, bracelets and watches, tuck in or remove loose clothing.
- 5. Hands should never come within 8" of the blade.
- 6. Before starting the saw check for and remove scraps beside and behind the blade with a piece of wood. Clean off scraps after you have finished and blade has stopped turning. Never clean scraps while blade is turning. Put scraps in cut-offs bin, NOT on the floor.
- 7. Before starting the saw ensure that left hand is holding the wood. When finished cutting wait for the blade to stop turning before removing the work piece.
- 8. Never start the saw with the blade touching the wood.
- 9. Wood must be held against fence while it is being cut.
- 10. When finished using machine wait beside it until the blade has stopped turning. Never leave a saw running or unattended.
- 11. Never throw things into the blade while machine is running.
- 12. Never have body or arms in front of the blade while using saw. Body should be off to the side of the blade path.
- 13. Do not look around or have a conversation when making a cut. Concentrate on what you are doing.
- 14. Operator should have a safe operating are of 4x4 feet.
- 15. Obtain the instructors permission before using this machine.

#### Compound Miter Saw

1.	What type of cutting is the miter saw in our shop to be used for?	/1
	a. Cross-cut b. Rip c. Dado d. All of these	
2.	When cutting your board what following statement best describes how you should	d cut
	your board?	/1
	a. Jerky and slow b. Fast and consistent	
	c. Slow and consistent d. Whatever speed you want	
	c. Slow and consistent	
3.	At what length should you have the instructor supervise you cutting your board?	
	a. 12" b. 13" c. 8" d. 15"	/1
4.	Your hands should not come to within what distance of the blade?	/1
	a. 10" b. 12" c. 14" d. 8"	
5.	Before starting the Miter saw what must you check for?	/1
	a. No cut offs in blade path c. Blade is not touching wood	
	b. Right hand is out of blade area d. All of these	
6.	If there are cut-offs or scraps in the blades path behind the fence when can you cl	ean
	them off?	/1
	a. No cut-offs in blade path c. When blade is returned behind th	e fence
	b. When blade fully lifted d. When blade has stopped turning	
7.	When finished with the saw what must you do before leaving the machine?	/1
	a. Make sure blade has stopped moving c. Blade is pushed in as far a possib	ole
	b. Cut-offs are cleaned up and put in bin d. All of these	
8.	How should your wood be held against the fence while it is being cut?	/1
	a. With your right hand c. With your left hand	
	b. Just freely sitting on the blade d. With whatever hand is	
	comfortable	
9.	Which statement best describes how your cut-offs should be cleaned off the table	?/1
	a. Always with a piece of wood. c. Only when blade has completely	stopped
	b. Only when blade has been returned behind fence d. All of these	

#### The Jointer - SAFE OPERATION

- Remove jewelry, tuck in loose clothing, roll up long sleeves and confine long hair.
- If stock that is to be edge jointed is lower that the fence the edge jointing push stick must be used.
   The face jointing push stick is to be used at all other times (jointing face). Use designated push stick for specific operation.
- 3. Keep hands and fingers away from blade at all times. When edge jointing, left-hand is to be resting on magnetic hold down and pushing board against fence. When front end of board has cleared the orange area place left hand on board and hold against fence. Be aware that left hand never comes close to blade.
- 4. Maximum depth of cut is 1/16" for edge as well as face jointing.
- 5. Never joint end grain.
- Stock is to be fed only from in feed table to out feed table. Never bring stock back over rotating blade.
- Minimum length of stock to be jointed is 12".
- 8. Have a solid footing and body should be to side of blade pathway. Move bridy as board moves. Never lean awkwardly over knife.
- When waiting to use the jointer never stand directly in the pathway of the blade.
- 10. Make sure blade guard is operating correctly before using machine.
- 11. Wait until blade guard springs back before reaching for work piece.
- Make sure fence is locked in position you want it to be in before using. When checking fence angle, machine must be off and blade should not be rotating.
- 13. Always use fence on jointer to help guide your work.
- 14. Joint edge only after jointing fence.
- 15. The concave side of a cupped face should be placed down.

TEST	JOINTER			
CIRCLE THE JOINTER	MOST CORRECT		DATE	
c. never		d. board is lower tha	n fence	/1
c. always		ust a push stick be use b. when board is less d. when board has a	ed?	/1
fi.	2. 1110	fcut on the jointer? c. 3/16"	d. 1/4"	/1
<ul><li>4. When can yo</li><li>a. if board is 6"</li><li>c. when you fee</li></ul>	ou joint the end gra or wider I it is necessary	ain on your board? b. if board is 7' d. never	or wider	/1
5. Why must you	u never feed your	board from the out fee	ed table to the in some	
c. it is extremely	dangerous to do	of your board b. you so d.	u can't control the dep	/1 oth of cut
<ol><li>What is the di edge jointing? a. 8"</li></ol>	stance that your le	eft hand should never	come within the blade	when
7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	c. 6"	d. 5"	. / 6
a. 12"	nimum length of s b.10"	tock to be jointed? c. 16"	d. 14"	11
<ol> <li>Before using the author of the control of the control</li></ol>	hing citting in the	st you check for on the over the blade to the fe nives d. all of these		/1
<ol><li>When using the a. behind machine</li><li>side of blade pa</li></ol>	thway	st your body be? b. wherever is co	out feed table as non	/1
10. Immediately at board off the out fe a. when you want c. when the guard sturning		ed your board when ca	an you reach for and it of has cleared the gua en the cutter has stop	ift your /1

## The Thickness Planer - SAFE OPERATION

- 1. Remove jewelry, tuck in loose clothing, roll up long sleeves and confine long hair.
- 2. The minimum length of board to be machined is



- 3. Do not force the material through the planer. If board is stuck, gently push on its end with another board. If it is still stuck do the following:
  - 1. turn machine off.
  - 2. Wait until blade stops turning(1 minute).
  - 3. lower table with hand wheel.
  - 4. Remove stock or wood chips with scrap Piece of wood.
- Do not stand directly in front of the planer or in the line of a kickback. Stand to the side of machine when using.
- 5. Do not look into the throat of the machine when it is running.
- 6. If wood chips are spitting out of machine, open vent. If that doesn't help follow rule #3 steps 1-4.
- 7. Wood is to be pushed into machine with palm of hands, fingers are never to be under piece of wood.
- 8. Max. depth of cut is 1/16".
- 9. Measure material thickness before adjusting table height.
- 10. The cutter head is on the top of the machine.
  - 11. Hands should never extend past the orange edge of infeed table.
  - 12. Wait until cutter head has stopped turning before leaving machine.
  - 13. Never initiate a conversation with anyone using machine. Never have a conversation with anyone while you are using machine.
  - 14. Operator should have a safe operating area of 4' x 4'.
  - 15. Obtain the instructors permission before operating this equipment.

		dimum depth of cut b. 1/16"	NAME on the thickness plan c. 3/16"	er? d. 1/4"	/1
	2. What is the mini	imum length of stoo b.10"	ck to be planed? c. 16"	d. 14"	/1
	Where should you     a. directly in line wi     c. either side of the	ith the blade	eeding your board int b. wherever you w d. directly behind t	ant	/1
	a. when the machin	ook into the throat one is running stuck in the mach	of the machine? b. when the blade ine d. when the blad	is moving e is not moving	/1
	5. When can you re a. after machine ha c. whenever they a	as stopped running	ulation? b. whenever blade e machine d. whenev	has stopped moving er you want	/1
	<ul><li>a. your fingers aren</li><li>c. your fingers migh</li></ul>	i't strong enough to it go under the boai	pard into the planer winder feed the wood burner be and get pinched be top of the machine	you could get splinter	/1 rs in them board
	7. Which measuren a. height	nent must be taken b. width	on your board before c. thickness	planning it for the first	st time? /1
	8. Which part of yoเ a. top	ır board gets plane b. bottom	d? c. side	d. end	/1
	9. Which part of the a. the top of it c. under it	infeed table should	d your hands never ex b. the orange painte d. the side of it	rtend past? ed edge	/1
ć	10. When is it ok to a. never c. whenever board g		b. after stop button	is pushed	/1
t			head to stop turning a		
1 a		s stuck in the plane	c. 45 seconds  r when can remove it b. after machine is to d. after all of these a	urned off	/1

# The Table Saw - SAFE OPERATION

- Remove jewelry, tuck in loose clothing, roll up long sleeves and confine long hair.
- 2. Stand in a comfortable position and to the side of the blade path.
- When finished with the saw turn the power switch off. Stay with machine until blade has stopped turning.
- Disconnect power when making repairs and changing blades.
- 5. Always use the blade guard.
- 6. Make sure blade teeth are pointing towards operator:
- 7. Tighten the fence clamp or the mitre gauge-adjusting knob.
- 8. Make sure the table insert is flush with the table.
- 9. Blade should be ¼" to ½" above work piece.
- 10. Always think through an operation before performing it.
- 11. Hold the stock firmly against the fence or mitre gauge.
- 12. Use a push stick for ripping material narrower than 6".
- 13. Never operate the saw without rip fence, mitre gauge, or other guide. No free hand cutting.
- 14. Never reach across, over or behind the blade.
- 15. Do not use the rip fence and the mitre gauge at the same time if cutting stock to length.
- 16. Do not attempt to remove work that is caught in the machine while blade is rotating. Hold onto work piece until blade has stopped rotating. Then remove it.
- 17. Provide support for a long or a wide work piece before and after the cut.
- 18. Do not look around or have a conversation when making a cut. Concentrate on what you are doing.

1ABLE SAW	
63. Where should your body be positioned when you are ripping on the table saw?  a. directly behind the blade b. directly in line with the blade c. to the right of your wood d. to the left of your wood	/1
64. Whenever you are done using the table saw what must you ensure the blade is doing	ng
b. slowing down c. almost stopped down	/1
machine?	
a. cleaned off b. blade removed c. power disconnected d. fence removed	/1
66. When should you use the blade guard?  a. always  b. whenever it is convenient	/1
67. Which direction should the teeth be pointing on the table saw?	/1
68. How high above your wood should the blade be?	1
69. What word best describes the pressure you use to hold your wood against the miter gauge or rip fence?  a. moderately  b. firmly  c. gently  d. loosely	I
70. If you are ripping your wood, at what width of rip do you have to use a push stick? /1 a. always b. 4" c. 5" d. 6"	
71. When can you freehand cut on the table saw?  a. ripping  b. crosscutting  c. whenever you want  d. never	
72. If you are cutting your stock to length what do you use to do this?  a. rip fence b. rip fence and miter gauge c. miter gauge d free hand	
73. If your wood gets caught in the machine when can you let go of wood?  a. immediately b. after the stop button is pushed c. whenever you want d. after blade has stopped turning	
<ul> <li>74. When can you put your hands under the guard?</li> <li>a. after stop button has been pushed</li> <li>b. when blade has almost stopped turning</li> <li>c. whenever a piece is caught under the guard</li> <li>d. never</li> </ul>	
75. During a ripping operation what is the person pulling the wood off the table responsible	
b. pull wood off the table  b. pull wood clear of the blade  d. make sure blade is high enough	

#### The Band Saw - SAFE OPERATION

- 1. Remove jewelry, tuck in loose clothing, roll up long sleeves and confine long hair.
- 2. Make sure all guards are in place and operating correctly.
- 3. Make sure all adjustments are tight and secure and blade guides are adjusted properly before starting machine.
- 4. Upper blade guards should be 1/8" 1/4" (pencil width) above work piece.
- 5. Guide the work slowly, letting the blade do the work. Do not force the work into the blade.
- 6. Do not attempt to cut a smaller radius than the blade will allow.
- 7. Avoid backing out of a cut.
- 8. Hands and fingers are never to be inside the orange painted area on the table while the blade is moving.
- 9. Never leave the machine until it has come to a full stop.
- 10. Adjust guards only when blade is not moving.
- 11. Step on brake only after you have turned the machine off.
- 12. Do not twist blade with wood.
- 13. If blade breaks step to side of machine and turn it off. Never open doors.
- 14. Operator should have a safe operating area of 4' x 4'.
- 15. Clean scrap pieces away from blade with a long piece of wood. Never clear scrap pieces away with your hands.
- 16. Never initiate a conversation with anyone using machine. Never have a conversation with anyone while you are using machine.
- 17. Obtain the instructors permission before operating this equipment.

1. What must you make sure about the guards before starting the machine?	/3
2. How high above the work piece must the guards be?	/1
3. When cutting where should your hands never be?	/1
4. List in order the procedure for shutting down the machine when you are done using it	14
5. What two things must you do if the blade breaks?	12
6. What must you never do to the doors under any circumstances?	/1
. What is the safe acceptable method for cleaning your scraps away from the blade?	/1
3. Why must you never adjust the guards when the blade is moving?	/1
Describe the speed at which you should feed your wood into the blade?	/1
O. Why should you never attempt to cut a radius smaller than the blade can handle? Explain why you will know this is happening.	<i>1</i> 2
1. Explain why you should avoid backing out of a cut?	/1
2. Explain why you must use the brake to stop the blade.	/1
. Explain why you must first turn off the nower to the machine before union the banks	

### The Drill Press - SAFE OPERATION

- Remove jewelry, tuck in loose clothing, roll up long sleeves and confine long hair.
- Be sure the key is removed from chuck before starting machine.
- Work piece is to be held against fence or clamped to table.
- Never try to stop moving chuck with hand.
- 5. If a work piece gets caught in the drill, turn off the machine and step back. Do not try to stop the moving piece with your hand. Once it stops turning remove the piece.
- 6. Hands are never to be near or under the moving cutter.
- One operator (person using the machine controls the buttons).
- 8. Adjust the depth stop only when machine is stopped.
- When adjusting table height machine must be off.
- 10. Feet are never under table when adjusting table height.
- 11. Never let go of table when adjusting its height.
- Make sure table locking lever is locked when done adjusting table.
- 13. When actually moving table both hands must be on table.
- Never initiate a conversation with anyone using machine. Never have a conversation with anyone while you are using machine.
- 15. Operator should have a safe operating area of 4' x 4'.
- 16. Always use the shield/guard.
- 17. Obtain instructors permission before operating this equipment.

# The Drill Press - Safe Operation - Test

1.	Why should you make sure the chuck key is removed from the chuck before	NEW MOU
	turn on the machine (be specific what will the chuck do)?	/1
2.	What are the two options for securing your wood while it is being drilled?	/2
3.	Why must you never try to stop the moving chuck with your hand?	/1
4.	What should you do if your wood starts spinning around the drill bit?	/2
5.	If your wood starts to spin around on the drill bit why should you never try to it with your hand?	to stop
6.	Why should your hands never get near or under the moving cutter?	/1
7.	Who controls the buttons on the machine?	/1
8.	When is the only time you can adjust the depth stop?	/1
9.	What must the cutter be doing when you are adjusting the table height?	/1
10.	Why should your feet never be under the table when the table height is being adjusted?	ng /1
11.	Why should you never let go of table when adjusting its height?	/1
12.	What must you make sure is done to the table locking lever when you are do adjusting table?	one /1
13.	When you are actually adjusting the height of the table how many hands mulholding the table?	st be
14.	When you are done using the machine what must you do before leaving it?	/2

# The Disc/Belt Sander - SAFE OPERATION

- 1. Remove jewelry, tuck in loose clothing, roll up long sleeves and confine long hair.
- 2. Inspect the disc and the belt to be sure they are properly installed and in good condition before starting the machine.
- 3. Use moderate pressure and move the material being sanded back and forth to avoid heating and burning the belt or disc.
- 4. Keep hands and fingers at least 2" away from the moving belt and disc.
- 5. Sand only on the down stroke side of the disc sander.
- 6. Operator should have a safe operating area of 4' x 4'.
- 7. Always have work piece sitting on the table while sanding it.
- 8. Wait until belt and disc stops moving before leaving the machine.
- 9. Never initiate a conversation with anyone using machine. Never have a conversation while you are using machine.
- 10. Obtain the instructors permission before operating this equipment.

#### The Disc/Belt Sander - Safe Operation - Test

Before starting the sander what should you look for on the disc and belt? 1. How much pressure should you put against the disc or belt with your wood while 2. sanding it? What can you do to avoid heating the belt or disc while sanding your wood? 3. How far from the disc or belt should you keep your hands? 11 4. Which side of the disc sander should you only sand on? 5. What will happen to your wood if you sand on the upstroke side of the disc 6. 11 sander? Which part of the machine should your wood be sitting on while it is being sanded? When finished using the sander what thing must you confirm before leaving the 8. machine? 80 While using the sander what must you concentrate on? 9.

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