

Metalwork Emergency Lessons for Busy Teachers



Set 3

Safety Tests



Tasstudent.com

Table of Contents

This resource contains safety tests for the following Metalwork tools and equipment.

	Safety Test Title	Number of Questions	Expected duration	Pages for this test	Solution included
1	General Metalwork Safety	12	10 min	1	Y
2	Metalwork Hand Tools Safety	12	10 min	1	Y
3	Drill Press	12	10 min	1	Y
4	Cordless Drill	10	10 min	1	Y
5	Spot welder	10	10 min	1	Y

The safety tests contained within this activity have been designed for use in the classroom to assist in covering a topic or outcome. They could be used to reinforcing learning or test understanding after instruction.

Each test has been formatted to allow for quick printing of individual lessons and each allows for students to write their name and the date the activity was completed.


Other resources you may find useful

Tasstudent on the web

Website - www.tasstudent.com
Youtube - www.youtube.com/user/tasstudentvideos
Instagram - www.instagram.com/tasstudent
Facebook - www.facebook.com/tasstudent
Pinterest - www.pinterest.com.au/tasstudentresources
Email - tasstudentsales@gmail.com

Woodwork

Emergency Theory
Lessons for Busy Teachers

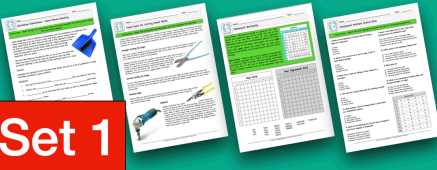


Set 1

Safety
Printable Activities

Metalwork

Emergency Theory
Lessons for Busy Teachers




Set 1

General Metalwork

Agriculture

Emergency Theory
Lessons for Busy Teachers



Set 1

Plant Production



Name _____

Date : _____ Class : _____

General Metalwork Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided..

1. Safety in the workshop is the sole responsibility of your teacher.

- a) True
- b) False

2. Eye protection **MUST** be worn when using a machine or power tools.

- a) True
- b) False

3. If I am unsure of the operation of tools or equipment, I should ask the teacher for assistance first:

- a) True
- b) False

4. How many people are allowed to operate a machine inside the yellow safety zone?

- a) One (1) only
- b) Up to two (2) are allowed.

5. Tools, materials, or other items can safely be left near the edges of work benches.

- a) True
- b) False

6. Making adjustments or repair while a machine is running would be safe.

- a) True
- b) False

7. If you injure yourself in the work shop you should:

- a) Immediately tell your teacher
- b) Ask a friend to help with first aid.

8. Why is it hazardous to leave too many tools on the workbench when they are not in use?:

- a) There is the risk of theft
- b) They could fall onto your feet
- c) Others will not be able to use them.
- d) You will have no room for your project.

9. Which of the following is **NOT** an example of PPE?

- a) Apron
- b) Face mask
- c) Leather shoes
- d) Screen protector

10. All machines have a switch, which enables the main power supply to be switched off remotely to the machine. This switch is called a:

- a) Limit Switch
- b) Remote Switch
- c) Isolation Switch
- d) Pressure Switch

11. High visibility vests are examples of:

- a) face protection
- b) Hair protection
- c) protective clothing
- d) hearing protection

12. The tool pictured below is a:

- a) Tenon Saw
- b) Hack Saw
- c) Coping Saw
- d) Cold Saw



Q	Answer
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Grade out of
12





Metalwork Hand Tools Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided.

1. Which of the following tools has a sharp point on one side and a cutting tool on the other?:

- a) Scriber
- b) Centre Punch
- c) Outside Callipers
- d) Engineers Square

2. Which of the following tools is most suited to mark a line parallel to an edge of sheet metal.

- a) Spring divider
- b) Inside calliper
- c) Odd leg calliper
- d) Outside calliper

3. Which of the following pieces of Personal Protection Equipment should be worn when using Metalwork hand tools?

- a) Hair net and Apron
- b) Apron and leather shoes
- c) Leather shoes and gloves
- d) Safety glasses and gloves

4. Leaving too many tools on the workbench when they are not in use is a hazard. Why is this?:

- a) There is the risk of theft
- b) They could fall onto your feet
- c) Others will not be able to use them.
- d) You will have no room for your project.

5. It is safe to carry tools in your apron pocket.

- a) True
- b) False

6. A Blunt tools is safer than a sharp one.

- a) True
- b) False

7. If you cut yourself with a hacksaw or other tool in the metalwork, you should:-

- a) Immediately tell your teacher
- b) Ask a friend to help with first aid.

8. If you found a file with the handle missing you should?

- a) Get one with a handle.
- b) Give it to the teacher immediately
- c) Only use it if there are no others left
- d) Put it back in the tool cupboard as it is dangerous

9. When installing the hacksaw blade into its frame, the teeth must be

- a) Pointing towards the handle
- b) Pointing away from the handle
- c) Pointing upwards towards the frame
- d) Pointing downwards away from the frame

10. A file card is usually kept to

- a) keep record of files
- b) identify types of files
- c) clean the teeth of a file
- d) keep files apart when storing

11. Which of the following is the BEST reason for files being fitted with handles?

- a) Provide a good grip
- b) Avoid wearing gloves
- c) Prevent the tang from rust
- d) Prevent injury to the hand

12. When should I tell the teacher if someone has cut themselves with a hacksaw?

- a) Immediately
- b) At the end of the lesson
- c) Following first aid treatment
- d) There is no need unless it needs stitches



Q	Answer
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Grade out of
12





Name _____ Date : _____ Class : _____

Drill Press Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided..

1. What personal protective equipment should be worn when using the Drill Press?.

- a. Safety glasses and gloves.
- b. Safety glasses, dust mask and gloves.
- c. Safety glasses, Ear muffs and an apron.
- d. Safety glasses, Leather shoes and an apron.

2. Before drilling on the drill press you should:-

- a. Seek permission from your teacher.
- b. Ensure you have received adequate training.
- c. Check that the drill bit is properly secured.
- d. All of the above should be completed before using the drill press.

3. When changing the drill piece, what should you do first?

- a. Turn the machine on.
- b. Clean the drill press table.
- c. Ensure there are no others in the room.
- d. Ask the teacher for permission and to assist.

4. Which of the following is not correct?

- a) You should always clamp your workpiece.
- b) You should hold your workpiece in your right hand.
- c) Goggles are needed when using the Drill press.
- d) You should stop the Drill press before removing your work piece.

5. The "stop" switch is a red button protruding above the start button. The reason for this is:-

- a) to make stopping the machine easy.
- b) to help to turn the machine on easily
- c) Both a and b are correct.

6. The drill press speed needs to be adjusted according to the size of the drill:-

- a) True.
- b) False.

7. It is safe to hold the work piece in your hands when drilling.

- a) True
- b) False.

8. The drill bit will burn your fingers if you touch it after drilling?

- a) True
- b) False

9. How many people are allowed to operate a drill press inside the yellow safety zone?

- a) One (1) only.
- b) Up to two (2) are allowed.
- c) Up to three (3) are allowed.
- d) No more than three (3) plus the teacher.

10. When should you switch the Drill press off?

- a) At the end of the lesson
- b) If you are the last person
- c) After your friend has finished
- d) Immediately after you have finished

11. If the Drill press is making a strange noise, you should:

- a) Inform the teacher.
- b) Turn the machine off.
- c) Complete the process anyway.
- d) Option a and b are both correct

12. Which of the following should be removed before using the Drill press:

- a) Your tie
- b) Your apron
- c) Machine Guards
- d) Long sleeve shirt



Q	Answer
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Grade out of
12





Name _____ Date : _____ Class : _____

Cordless Drill Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided.

1. Which of the following are **NOT** typically required to be worn while operating the Cordless Drill.

- a. Gloves and face shield.
- b. Hair net and ear muffs.
- c. Leather shoes and apron.
- d. Safety glasses and dust mask.

2. When drilling a hole in a short length of metal with the cordless drill, how should your workpiece be held?

- a) In your hand.
- b) In a bench vice.
- c) Clamped flat to the bench.
- d) None of the above are correct.

3. If smoke is forming whilst drilling at the workpiece you should:-

- a. Select a slower speed.
- b. Continue as this is normal.
- c. Check the drill is not in reverse.
- d. Change the drill bit to a smaller one.

4. It is safe to remove the drill bit from the drill immediately after it has been used.

- a) This statement is true.
- b) This statement is false.

5. It is **NOT** necessary to remove the battery pack from the drill before changing the drill bit.

- a) This statement is true
- b) This statement is false

6. When drilling metal to attached to your project, you should first make an indentation with a:-

- a) bradawl
- b) nail punch
- c) centre punch
- d) point stabber

7. Due to not needing to be plugged into the power point, a cordless drill is suitable for working in wet conditions?

- a) This statement is true
- b) This statement is false.

8. It is safe to use a step drill in a cordless drill. (Step Drill pictured)

- a) This statement is true
- b) This statement is false



9. What should you do if the battery gets excessively hot?

- a) Recharge the battery
- b) Nothing as this is normal
- c) Let the battery cool down

10. It is considered safe to use the Cordless drill without any prior training or instruction.

- a) This statement is true
- b) This statement is false



Q	Answer
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Grade out of
10





Name _____ Date : _____ Class : _____

Spot Welder Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided.

1. Permission must always be sought before using the Spot Welder

- a. True
- b. False.

2. The power outlet should be switched off and the plug removed before making adjustments to the Spot Welder

- a) True
- b) False

3. Only one person is allowed to operate the Spot welder at a time.

- a) True
- b) False

4. The spot welder can be used to weld heavy gauge metal up to 6mm together

- a) True.
- b) False.

5. It is safe to use the spot welder without the teachers permission

- a) True
- b) False

6. The spot welding process will will generate a lot of heat. Touching the metal after welding should be avoided.

- a) True
- b) False

7. Which of the following pieces of PPE are needed when using the spot welder?

- a) Apron and safety glasses
- b) Safety glasses and leather shoes
- c) Face mask, Apron and Safety glasses
- d) Apron, Safety glasses and leather shoes

8. Which of the following should be done to protect other students in the class?

- a) Place a screen around the spot welder
- b) Ensure others are kept a safe distance away during operation
- c) Keep the room well ventilated during operation
- d) All of the above should be done

9. Which of the following should be checked prior to operating the spot welder?

- a) Lose or bare wires
- b) Damage to the casing
- c) Damage to the electrodes
- d) All of the above should be checked

10. Which of the following is NOT a cause of spluttering from the welding tip.

- a) Poor electrode contact
- b) Low room temperature
- c) Paint or dirt present of the material
- d) Poor clamping of the work piece to the electrode



Q	Answer
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Grade out of
10





Name SOLUTION

Date : _____ Class : _____

General Metalwork Safety Test (SOLUTION)

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided..

1. Safety in the workshop is the sole responsibility of your teacher.

- a) True
- b) False

2. Eye protection **MUST** be worn when using a machine or power tools.

- a) True
- b) False

3. If I am unsure of the operation of tools or equipment, I should ask the teacher for assistance first:

- a) True
- b) False

4. How many people are allowed to operate a machine inside the yellow safety zone?

- a) One (1) only
- b) Up to two (2) are allowed.

5. Tools, materials, or other items can safely be left near the edges of benches.

- a) True
- b) False

6. Making adjustments or repair while a machine is running would be safe.

- a) True
- b) False

7. If you injure yourself in the work shop you should:

- a) Immediately tell your teacher
- b) Ask a friend to help with first aid.

8. Why is it hazardous to leave too many tools on the workbench when they are not in use?:

- a) There is the risk of theft
- b) They could fall onto your feet
- c) Others will not be able to use them.
- d) You will have no room for your project.

9. Which of the following is **NOT** an example of PPE?

- a) Apron
- b) Face mask
- c) Leather shoes
- d) Screen protector

10. All machines have a switch, which enables the main power supply to be switched off remotely to the machine. This switch is called a:

- a) Limit Switch
- b) Remote Switch
- c) Isolation Switch
- d) Pressure Switch

11. High visibility vests are examples of:

- a) face protection
- b) Hair protection
- c) protective clothing
- d) hearing protection

12. The tool pictured below is a:

- a) Tenon Saw
- b) Hack Saw
- c) Coping Saw
- d) Cold Saw



Q	Answer
1	B
2	A
3	A
4	A
5	B
6	B
7	A
8	B
9	D
10	C
11	C
12	B

Grade out of
12





Metalwork Hand Tools Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided.

1. Which of the following tools has a sharp point on one side and a cutting tool on the other?:

- a) Scriber
- b) Centre Punch
- c) Outside Callipers
- d) Engineers Square

2. Which of the following tools is most suited to mark a line parallel to an edge of sheet metal.

- a) Spring divider
- b) Inside calliper
- c) Odd leg calliper
- d) Outside calliper

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- a) Hair net and Apron
- b) Apron and leather shoes
- c) Leather shoes and gloves
- d) Safety glasses and gloves

4. Leaving too many tools on the workbench when they are not in use is a hazard. Why is this?:

- a) There is the risk of theft
- b) They could fall onto your feet
- c) Others will not be able to use them.
- d) You will have no room for your project.

5. It is safe to carry tools in your apron pocket.

- a) True
- b) False

6. A Blunt tools is safer than a sharp one.

- a) True
- b) False

7. If you cut yourself with a hacksaw or other tool in the metalwork, you should:-

- a) Immediately tell your teacher
- b) Ask a friend to help with first aid.

8. If you found a file with the handle missing you should?

- a) Get one with a handle.
- b) Give it to the teacher immediately
- c) Only use it if there are no others left
- d) Put it back in the tool cupboard as it is dangerous

9. When installing the hacksaw blade into its frame, the teeth must be

- a) Pointing towards the handle
- b) Pointing away from the handle
- c) Pointing upwards towards the frame
- d) Pointing downwards away from the frame

10. A file card is usually kept to

- a) keep record of files
- b) identify types of files
- c) clean the teeth of a file
- d) keep files apart when storing

11. Which of the following is the BEST reason for files being fitted with handles?

- a) Provide a good grip
- b) Avoid wearing gloves
- c) Prevent the tang from rust
- d) Prevent injury to the hand

12. When should I tell the teacher if someone has cut themselves with a hacksaw?

- a) Immediately
- b) At the end of the lesson
- c) Following first aid treatment
- d) There is no need unless it needs stitches



Q	Answer
1	A
2	C
3	B
4	B
5	B
6	B
7	A
8	B
9	B
10	C
11	D
12	A

Grade out of
12





Name SOLUTION

Date : _____ Class : _____

Drill Press Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided..

1. What personal protective equipment should be worn when using the Drill Press?.

- a. Safety glasses and gloves.
- b. Safety glasses, dust mask and gloves.
- c. Safety glasses, Ear muffs and an apron.
- d. Safety glasses, Leather shoes and an apron.

2. Before drilling on the Drill press you should:-

- a. Seek permission from your teacher.
- b. Ensure you have received adequate training.
- c. Check that the drill bit is properly secured.
- d. All of the above should be completed before using the drill press.

3. When changing the drill piece, what should you do first?

- a. Turn the machine on.
- b. Clean the drill press table.
- c. Ensure there are no others in the room.
- d. Ask the teacher for permission and to assist.

4. Which of the following is not correct?

- a) You should always clamp your workpiece.
- b) You should hold your workpiece in your right hand.
- c) Goggles are needed when using the Drill press.
- d) You should stop the Drill press before removing your work piece.

5. The "stop" switch is a red button protruding above the start button. The reason for this is:-

- a) to make stopping the machine easy.
- b) to help to turn the machine on easily
- c) Both a and b are correct.

6. The drill press speed needs to be adjusted according to the size of the drill:-

- a) True.
- b) False.

7. It is safe to hold the work piece in your hands when drilling.

- a) True
- b) False.

8. The drill bit will burn your fingers if you touch it after drilling?

- a) True
- b) False

9. How many people are allowed to operate a drill press inside the yellow safety zone?

- a) One (1) only.
- b) Up to two (2) are allowed.
- c) Up to three (3) are allowed.
- d) No more than three (3) plus the teacher.

10. When should you switch the Drill press off?

- a) At the end of the lesson
- b) If you are the last person
- c) After your friend has finished
- d) Immediately after you have finished

11. If the Drill press is making a strange noise, you should:

- a) Inform the teacher.
- b) Turn the machine off.
- c) Complete the process anyway.
- d) Option a and b are both correct

12. Which of the following should be done before using the Drill press:

- a) Remove your apron
- b) Blow any shavings away
- c) Clamp down your work piece
- d) Remove the guards to access your work



Q	Answer
1	D
2	D
3	D
4	B
5	A
6	A
7	B
8	A
9	A
10	D
11	D
12	C

Grade out of
12





Name SOLUTION

Date : _____ Class : _____

Cordless Drill Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided.

1. Which of the following are **NOT** typically required to be worn while operating the Cordless Drill.

- a. Gloves and face shield.
- b. Hair net and ear muffs.
- c. Leather shoes and apron.
- d. Safety glasses and dust mask.

2. When drilling a hole in a short length of timber with the cordless drill, how should your workpiece be held?

- a) In your hand.
- b) In a bench vice.
- c) Clamped flat to the bench.
- d) None of the above are correct.

3. If smoke is forming whilst drilling at the workpiece you should:-

- a. Select a slower speed.
- b. Continue as this is normal.
- c. Check the drill is not in reverse.
- d. Change the drill bit to a smaller one.

4. It is safe to remove the drill bit from the drill immediately after it has been used.

- a) This statement is true.
- b) This statement is false.

5. It is **NOT** necessary to remove the battery pack from the drill before changing the drill bit.

- a) This statement is true
- b) This statement is false

6. When drilling metal to attached to your project, you should first make an indentation with a:-

- a) bradawl
- b) nail punch
- c) centre punch
- d) point stabber

7. Due to not needing to be plugged into the power point, a cordless drill is suitable for working in wet conditions?

- a) This statement is true
- b) This statement is false.

8. It is safe to use a Step drill in a cordless drill. (Step drill pictured)

- a) This statement is true
- b) This statement is false



9. What should you do if the battery gets excessively hot?

- a) Recharge the battery
- b) Nothing as this is normal
- c) Let the battery cool down

10. It is considered safe to use the Cordless drill without any prior training or instruction.

- a) This statement is true
- b) This statement is false



Q	Answer
1	A
2	B
3	C
4	B
5	B
6	C
7	B
8	A
9	C
10	B

Grade out of
10





Spot Welder Safety Test

Instructions - Select the most correct answer for each of the questions below and write your answer in the answer box provided.

1. Permission must always be sought before using the Spot Welder

- a. True
- b. False.

2. The power outlet should be switched off and the plug removed before making adjustments to the Spot Welder

- a) True
- b) False

3. Only one person is allowed to operate the Spot welder at a time.

- a) True
- b) False

4. The spot welder can be used to weld heavy gauge metal up to 6mm together

- a) True.
- b) False.

5. It is safe to use the spot welder without the teachers permission

- a) True
- b) False

6. The spot welding process will will generate a lot of heat. Touching the metal after welding should be avoided.

- a) True
- b) False

7. Which of the following pieces of PPE are needed when using the spot welder?

- a) Apron and safety glasses
- b) Safety glasses and leather shoes
- c) Face mask, Apron and Safety glasses
- d) Apron, Safety glasses and leather shoes

8. Which of the following should be done to protect other students in the class?

- a) Place a screen around the spot welder
- b) Ensure others are kept a safe distance away during operation
- c) Keep the room well ventilated during operation
- d) All of the above should be done

9. Which of the following should be checked prior to operating the spot welder?

- a) Lose or bare wires
- b) Damage to the casing
- c) Damage to the electrodes
- d) All of the above should be checked

10. Which of the following is NOT a cause of spluttering from the welding tip.

- a) Poor electrode contact
- b) Low room temperature
- c) Paint or dirt present of the material
- d) Poor clamping of the work piece to the electrode



Q	Answer
1	A
2	A
3	A
4	B
5	B
6	A
7	D
8	D
9	D
10	B

Grade out of 10

