National 5 Practical Metalworking: practical activity

Candidate log book

Centre: A. High School

Candidate name:

A. Candidate

Area	Total marks for each area	Total mark for log book
Machine and power tool care and maintenance	3/5	
Tool care and maintenance	3/5	9/15
Safe working procedures	3/5	

Candidate signature:

A. Candídate

Date: 27/03/2018

Assessor signature: AN. a

AN. Assessor

Date: 27/03/2018

Machine and power tool care and maintenance

Procedure and	Before using, I	After using, I checked	Candidate	Assessor	1 mark or 0 marks
date carried out	checked		signature	signature	and comments
Procedure 1	All the guards were in place.	The power was off at the isolator.	A. Candídate	AN. Assessor	1 mark
Using the pedestal drill	The table was secure.	The drill was removed from chuck.			1 mark awarded, as the
to drill clearance holes	The work piece was secured.	The chuck key removed and stored.			candidate has given 4 or 5
for screws.	The switches were not damaged.	The machine was cleaned.			pre-use checks, has indicated
					a fault and what action they
23rd October 2017	I noticed a guard was loose and				took.
	reported it to my teacher.				The candidate has indicated 4
					or 5 post-use checks.
Procedure 2	I had permission to use the centre	I had switched all levers and	A. Candídate	AN. Assessor	1 mark
Using the centre lathe	lathe.	switches to the off position.			1 mark awarded, as the
to turn the handle for	The 3-jaw chuck was on tight and	I had switched off at the isolator.			candidate has given 4 or 5
my screwdriver.	the cutting tool was not chipped.	I had removed my handle from the			pre-use checks.
	All the levers and switches were in	chuck and removed the chuck key.			They have indicated 4 or 5
15 th November2017	the correct place.	I had swept down the machine for			post-use checks and indicated
	I had all the tools I needed; chuck	the next person to use.			that cutting tool may be
	key, micrometer, steel rule and	I thought the cutting tool was			blunt.
	spanner.	maybe getting a wee bit blunt, so I			
	The guards were in place and not	told the teacher.			
	damaged.				
Procedure 3	Everything was ok with the spot	When I finished, I made sure it was	A. Candídate	AN. Assessor	0 marks
Spot welder.	welder before I used it.	ok and fitted in the box it came in.			Zero marks awarded, as the
					candidate has not specified
11 th January 2018					any pre-use checks on the
					spot welder.
					No post-use checks are listed

Machine and power tool care and maintenance (continued)

Procedure and	Before using, I	After using, I checked	Candidate	Assessor	1 mark or 0 marks and
date carried out	checked		signature	signature	comments
Procedure 4	I had my metal and I could use the		A. Candídate	AN. Assessor	0 marks
Arc welder used to join	welder properly.				Zero marks awarded, as the
two bits of steel	I made the stick spark and welded				entry is incomplete. The
together.	the two bits of metal.				candidate has given no detail of
	I was very happy with what I had				what they checked after using.
10 th February 2018	done.				
Procedure 5	I checked with my teacher that it	I had switched off all of the gas	A. Candídate	AN. Assessor	1 mark
Setting up the forge to	was ok to use the forge.	taps and I had switched the power			1 mark awarded, as the
allow me to form my	I checked that the chips were	off on the machine and at the			candidate has given 4 or 5
screwdriver blade.	loose and not all joined together.	isolator.			pre-use checks.
	I used safety clothes and	I marked on the sign that the forge			They have indicated an issue
21 st February 2018	equipment.	was hot, and marked the date and			and how they resolved it.
	I made sure that there was nothing	the time so nobody would get			They have indicated 4 or 5
	I could trip over lying about.	burned.			post-use checks.
	I checked that all gas taps were in	I tidied up the mess, and put all			
	the correct position and made sure	safety equipment and tools back			
	that the extractor fan was	where they are kept.			
	working.				
	There was a funny noise coming				
	from the extractor, so I told the				
	teacher.				

• You must complete the relevant boxes for each machine/power tool procedure check you carry out.

• The checks must be relevant to the machine/power tools you are using and not general care and maintenance procedures.

• Your assessor should discuss your mark with you before signing off.

Machine and power tool care and maintenance	Total marks awarded	3/5
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Tool care and maintenance

Procedure and	What I did to fix it	What I checked	Candidate	Assessor	1 mark or 0 marks and
date carried out			signature	signature	comments
Procedure 1	The hacksaw blade was chipped	Before I started to use it, I let my	A. Candídate	AN. Assessor	1 mark
The hacksaw was not	and worn, so it needed to be	teacher check that it was in			1 mark awarded, as there is a
cutting through the	changed. I loosened the wing nut	properly, and was nice and tight,			full description of the problem
metal.	at the front of the hacksaw and	which it was.			and remedial action taken.
	took out the old blade, which I put				
23rd November 2017	in the recycle bin. I got a new				Check procedures are
	blade and, making sure the teeth				explained.
	were facing forward, I tightened it				
	in the frame with the wing nut.				
Procedure 2	I put the scribing block on top of	I double checked the height of the	A. Candídate	AN. Assessor	1 mark
Setting a scribing block	the surface table, along with the	scriber against the rule and I then			1 mark awarded, as there is a
to mark a height of	angle block. I held a rule vertical	let my teacher check it.			full description of problem and
50mm.	against the angle block and				remedial action taken.
	loosened the scriber on the				
8 th December 2017	scribing block. I then put the point				Check procedures are
	of the scriber level with 50mm				explained.
	mark on the rule and tightened it				
	up.				
Procedure 3	l unclogged it.	I made sure it worked.	A. Candídate	AN. Assessor	0 marks
My file wasn't filing					Zero marks awarded, as the
properly.					candidate has not noted how
					they addressed the issue and
13 th January 2018					there is no reference to any
					checks being carried out.

Tool care and maintenance (continued)

Procedure and	What I did to fix it	What I checked	Candidate	Assessor	1 mark or 0 marks and
date carried out			signature	signature	comments
Procedure 4	I got the die stock and loosened	I checked that the die was secure	A. Candídate	AN. Assessor	1 mark
Set up 8mm split die to	the three screws $-$ the 2 side ones	and got my teacher to check it			1 mark awarded, as the
make the first cut.	and the centre screw. I placed the	before I started the cut.			candidate has given a full
	8mm die in the die stock, with the				description of what is required
24 th February 2018	split in the die lined up with the				and the procedures involved in
	centre screw. I then tightened the				setting up the die for the first
	centre screw, as this expanded the				cut.
	die so it would cut the biggest				
	thread.				Checks are in place.
Procedure 5	The gap looked about right, as it	I tried it and it worked quite good.	A. Candídate	AN. Assessor	0 marks
Checking the gap	was ok when the last person used				Zero marks awarded as,
between electrodes on	it.				although the candidate has
the spot welder is set					written a full answer, there is
properly.					no reference to the process of
					checking the gap and there is
4 th March 2018					no reference to any checks
					being carried out.

- You must complete the relevant boxes for each issue you identify and procedure you carry out.
- You will be presented with tools that require attention, need repaired or set.
- You should identify the issue, report it to your assessor and then rectify it.
- Your assessor should discuss your mark with you before signing off.

Tool care and maintenance	Total marks awarded	3/5	
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Safe working procedures

An important part of the course is your ability to work in a safe manner. You must adhere to all health and safety procedures associated with the use of various power, machine and hand tools, and processes that you encounter during the course.

You must always behave in a manner expected within a workshop environment.

Your assessor will observe you throughout the practical activity and will award you a mark between 0-5. This mark forms part of your final assessment.

Marks are awarded as follows:

Safe working procedures	Mark
Candidate has adhered to safe working procedures, with no need for reminders or interventions	5
Candidate has adhered to safe working procedures, with one reminder or intervention	4
Candidate has adhered to safe working procedures, with two reminders or interventions	3
Candidate has adhered to safe working procedures, with three or four reminders or interventions	2
Candidate has adhered to safe working procedures, with regular reminders or interventions	1
Candidate has adhered to safe working procedures, with constant reminders or interventions	0

Safe working procedures	Total marks awarded	3/5
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Note to assessors:

You may find it helpful to indicate any interventions during the practical activity as they happen, by striking through in grid as shown here. This lets the candidate know how their working practices is affecting their mark.