

Technical Evaluation Record

v3 Sept25

QUALIFICATION:	Safe Use of Abrasive Wheels	Qualification/Units:	0125-01 – Units 201 & 202				
		Endorsements: (Please Tick)	Bench Mounted (Electric) <input type="checkbox"/> Portable Handheld (Electric) <input type="checkbox"/> Portable Handheld (Compressed Air) <input type="checkbox"/> Portable Handheld (Engine Driven) <input type="checkbox"/>				
Assessor Name:		Technical Verifier Name:					
Assessor BP No:		Technical Verifier BP No:					
NEW? DOB:							
Assessor Email:		Start Time:					
Invoice To: (Include Centre name if applicable)		End Time:					
CRITERIA: (To be used in conjunction with current Qualification Guidance)		PERFORMANCE EVALUATION (Circle):	JUSTIFICATION:				
1. Knowledge of H&S regulations and industry best practice. Carry out SSRA.		1	2	3	4	5	
2. Knowledge of operator protection and PPE standards		1	2	3	4	5	
3. Knowledge of power supply issues (electricity & petrol engines)		1	2	3	4	5	
4. Knowledge of potential hazards of abrasive wheels (all types)		1	2	3	4	5	
5. Knowledge of disc/wheel selection & inspection criteria		1	2	3	4	5	
6. Knowledge of mounting system criteria (all types)		1	2	3	4	5	
7. Remove and refit appropriate disc/wheel fitting (all types)		1	2	3	4	5	
8. Identify all controls, adjustments and decals on each machine to be operated		1	2	3	4	5	
9. Carry out pre-start checks & test starts (all types)		1	2	3	4	5	
10. Carry out specified tasks		1	2	3	4	5	
11. Assessment Techniques (new assessors only)		1	2	3	4	5	
PERFORMANCE EVALUATION COLUMN TOTALS:							= TOTAL SCORE:
Result of Technical Evaluation (tick):	MET	TOTAL SCORE REQUIRED TO ACHIEVE ASSESSOR STATUS: (NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 & 5 ONLY) <i>If an existing Assessor then please adjust total score required to 40</i>					44
	NOT MET						
ACTION PLAN FOR ASSESSOR:							
<i>Please continue on reverse if necessary</i>							
ASSESSOR COMMENTS:							
<i>Please continue on reverse if necessary</i>							
TECHNICAL VERIFIER SIGNATURE:				COST:		DATE:	
ASSESSOR SIGNATURE:				£200 Half Day £300 Full Day			

TECHNICAL EVALUATION RECORD

AABW02 Level 2 Certificate of Competence in the Safe Use of Abrasive Wheeled Machines

Unit 1 Select, Inspect and Fit Abrasive Wheels

Unit 2 Operate Abrasive Wheeled Machines

1. Knowledge of H&S regulations and industry best practice

Key principles and practical relevance:

- ☐ Health and Safety at Work etc. Act 1974 (HASAWA)
- ☐ Management of Health and Safety at Work Regulations 1999 (MHSWR)
- ☐ Provision and Use of Work Equipment Regulations 1998 (PUWER)
- ☐ Personal Protective Equipment at Work Regulations 1992 (PPE regs)
- ☐ Control of Substances Hazardous to Health Regulations (COSHH)
- ☐ The Health and Safety (First Aid) Regulations 1992
- ☐ Reporting of Injuries Diseases Dangerous Occurrence Regulations (RIDDOR)
- ☐ Manual Handling Operations Regulations 1992

Carry out SSRA

- ☐ Assessor to complete a Site-Specific Risk Assessment, using provided template.
- ☐ Hazards, risks and controls identified relative to site, task and equipment.

Operator legal and safety requirements when using Abrasive Wheeled Machines

- ☐ Be trained and competent
- ☐ Check all controls and stop switches are correctly marked and functioning
- ☐ Not to put themselves or others in danger
- ☐ Wear appropriate PPE (high speed impact eye protection is mandatory)

2. Explain the standard of Personal Protective Equipment Required when using Abrasive Wheeled Machines

- ☐ Safety Boots
- ☐ Eye Protection
- ☐ Face Protection
- ☐ Hearing protection
- ☐ Dust mask
- ☐ Gloves
- ☐ Overalls

3. Explain the safety requirements when using the following power sources

- ☐ Electric
 - PAT testing requirements
 - Use of 110-volt power supply
 - The need for circuit breakers
 - Use of battery powered machines
 - Visual inspection of machine and supply
 - Safety decals in place
 - Positive On/Off switch
 - Guards fitted and adjustable

- ☐ Compressed Air
 - Safety checks to electrical supply to the compressor
 - Check flexible hoses and connections for damage and wear
 - Adjustment of air pressure and flow are suitable for the machine
 - Safety decals in place
 - Lubrication system for the air motor is operational and adjusted as required
 - Guards fitted and adjustable

- ☐ Engine driven
 - Complete engine pre-start checks
 - Fuel area away from ignition sources
 - All controls are marked
 - All safety decals are in place
 - Engine runs smoothly
 - Max engine speed checked against disc requirements
 - Guards fitted and adjustable

4. State the potential hazards of abrasive wheels

- ☐ Wheel disc contact
- ☐ Wheel burst/disintegration
- ☐ Fire
- ☐ Dust
- ☐ Noise
- ☐ Vibration
- ☐ Flying particles
- ☐ Electrocution
- ☐ Burns

5. Select and check abrasive wheels for the following processes

- ☐ Metal cutting
- ☐ Metal grinding
- ☐ Stone cutting

Each wheel must be checked against abrasive wheel label or manufacturer information sheets (Technical verifier to supply wheels)

- ☐ Out of date wheels
- ☐ Wheels with approved speeds less than the machine they are to be mounted on

Identify wheels that are damaged/have faults (to be supplied by the Technical Verifier)

- ☐ Frayed edges
- ☐ Splits
- ☐ "Ring test" vitrified discs (bench grinders)
- ☐ Correct action to be taken regarding damaged wheels

6. Inspect the wheel mounting system on the abrasive wheel machine

- ☐ Spindles
- ☐ Flanges
- ☐ Bearings
- ☐ Threads
- ☐ Other components specific to the machine

State common faults on the on different types of abrasive wheel machines

- ☐ Damaged guards
- ☐ Loose wires
- ☐ Worn anti-vibration mountings
- ☐ Poorly secured to the bench
- ☐ Missing decals
- ☐ Controls not clearly marked

Actions to rectify

- ☐ Repair
- ☐ Replace
- ☐ Report to supervisor
- ☐ Clean out the wheel guard

7. Remove and refit wheels to all types of machines

- ☐ Wheels correctly fitted using the correct procedures
- ☐ Guards fitted and adjusted
- ☐ Check true rotation of the wheel
- ☐ Adjust work rest (bench grinders)
- ☐ Test run machine
- ☐ Adjust as required

Explain how to true a bench grinder wheel and why this is necessary

- ☐ Removal of flat or high spots on the wheel circumference to prevent vibration (using a hardened tool)

Explain how to dress a bench grinder wheel and why this is necessary

- ☐ Re-roughen the grinding surface of the wheel following glazing or excessive wear. The abrasive surface is conditioned using a suitable wheel dressing tool

8. Identify all controls, adjustments and decals on each machine to be operated

- ☐ Function of the controls
- ☐ Adjustments on the machine and why they would be used
- ☐ Explain all safety decals
 - Mandatory
 - Prohibitive
 - Informative
- ☐ Discuss any other information given in the instruction book

9. Carry out appropriate pre-start checks to each machine before use

- ☐ Checks to power supply
- ☐ Correct wheel fitted
- ☐ Wheel correctly attached
- ☐ Check Operator Presence Control

10. Use the abrasive wheeled machine(s) to carry out specified tasks

- ☐ Metal cutting
- ☐ Metal grinding
- ☐ Stone cutting
- ☐ Security of work
- ☐ Correct PPE is used
- ☐ Checking quality of work against specification
- ☐ Clean machine and prepare for storage
- ☐ Inspect machine prior to storage

11. Assessment techniques

- ☐ Clear and concise questions/instructions
- ☐ Question/instruction relative to unit.

(Please note: this section only needs to be completed by new assessors).