Technical Evaluation Record V2 Apr20





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	Safe Use of Abrasive Wheels		Qualification/Units:				:	AABW02 – Units 1 &	-	
QUALIFICATION:			Endorsements:					Bench Mounted (Electric)		
QUALIFICATION.	Sale Use of Abrasive wheels					:		Portable Handheld (Electric)		
				(Please Tick)				Portable Handheld	•	
Assessor Name:	ssessor Name:			Technical Verifier Name:					·	
Assessor No: NEW? DOB:			Technical Verifier No:							
Assessor Email:				Start Time:						
Invoice To: (Include Centre name if applicable)				End Time:						
CRITERIA: (To be used in conjunction with current Qualification Guidance)				FORN	-):	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			
 Knowledge of potential hazards of abrasive wheels (all types) 			1	2	3	4	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 SCC	DRE:	
	MET	ΤΟΤΑΙ	SCOF	RE RE	OUIR	ED TO		IEVE ASSESSOR STAT	rus:	
Result of Technical TOTAL SCORE REQUIRED TO ACHIEVE ASSESSOR STATUS: (NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 & 5 ONLY) 44										
Evaluation (tick): NOT MET If an existing Assessor then please adjust total score required									<mark>o 40</mark>	
ACTION PLAN FOR ASSESSOR:										
Please continue on reverse if necessary ASSESSOR COMMENTS:										
								COST: DATE:		
TECHNICAL VERIFIER SIGNATURE:								£200 Half Day		
ASSESSOR SIGNAT	URE:							£300 Full Day		

TECHNICAL EVALUATION RECORD

AABW02 Level 2 Certificate of Competence in the Safe Use of Abrasive Wheeled MachinesUnit 1 Select, Inspect and Fit Abrasive WheelsUnit 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
- $\hfill\square$ Worn anti-vibration mountings
- $\hfill\square$ Poorly secured to the bench
- □ Missing decals
- Controls not clearly marked
 Actions to rectify
- □ Repair
- □ Replace
- □ Report to supervisor
- $\hfill\square$ 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
- $\hfill\square$ 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).