

ABRASIVE WHEEL

TEST PAPER

CANDIDATE NAME: _____ GROUP NO: _____

RESULT: PASS
 Needs more training: DATE: _____

ASSESSOR: _____ *PRINT* _____ *SIGN*

1	When mounting abrasive wheels, name four classifications for which we require a certificate of competence. 1) 2) 3) 4)	
2	Who can issue a certificate of exemption?	
3	What is the law with respect to speed mark when the wheel is new and over 55mm diameter?	
4	When can the RPM of the wheel be increased? And to what limit.	
5	What is the function of the governor fitted to an air driven spindle?	

6	Under the abrasive wheel regulations, what are the requirements of Section 9 – (Training)?	
7	What are the purposes of a guard? 1) 2) 3)	
8	Is there any time that we can work without one, if so when?	
9	What are the three conditions relating to guards? 1) 2) 3)	
10	What is the requirement relating to the selection of cutting-off wheels, when used on a portable machine?	
11	What are the three conditions required when a work rest is being used? (By law). 1) 2) 3)	
12	What are the duties of an employed person? 1) 2)	

13	What are the symbols used in the marking system for? 1) Aluminium Oxide. 2) Silicon Carbide.	
14	How do we mark the grade of the abrasive wheel.?	
15	Name three main types of bond used. 1) 2) 3)	
16	When fitting an abrasive wheel, give four checks which must be made. 1) 2) 3) 4)	
17	Describe the tightening procedure.	
18	Give four checks which must be made for the flanges. 1) 2) 3) 4)	

19	Describe the wheels below and their possible uses. 1) C24NBF 2) A 60 P5V	
20	Describe the start-up procedure after a new abrasive wheel has been fitted.	
21	What is the maximum distance from the wheel that the spark shield is allowed?	
22	What is meant by cleavage line with respect to an abrasive grain?	
23	List the hazards when using a portable machine?	
24	What is the cautionary notice?	



TTE Training Limited

Check List For Mounting Abrasive Wheels

CLASS 1 EYE PROTECTION TO BE USED AT ALL TIMES (GOGGLES OR FACE VISOR)

Isolate power supply or unplug before changing the wheels

		Tick
WHEEL	Visual inspection for damage	
	Check washers (must be in good condition)	
	Check speed mark	
	Ring test – vitrified wheels only	
FLANGES	Check locating flanges – must be flat, square, free from distortion and free from damage	
	Flange faces recessed or undercut	
	Flanges to be of equal diameter	
	Top and bottom flange to be same design (location, face, undercut, recessed)	
	Flange diameter to be a minimum one third diameter of the wheel. (Vitrified wheels only)	
WHEEL FIT	Wheel to fit freely onto shaft (must not be tight)	
TIGHTENING PROCEDURE	Single nut – use key or spanner, tighten only sufficiently to drive wheel or prevent slip	
	Multi-screw – use key or torque wrench	
	Tighten uniformly to ensure even distribution of pressure over entire flange face, 15-20 ft/lb	
GUARDS	Adjusted correctly	
	Secured correctly	
	Maintained in good condition	
WORK REST	Maintained in good condition	
	Adjusted correctly (as close to the wheel as possible, or to within 1mm of the peripheral face of the wheel)	
STARTING PROCEDURE	Rotate by hand to ensure it is clear of the guard.	
	Run for one minute with no-one in line.	
	Hand held m/c, hold under bench or similar area.	