Carry out motor vehicle diagnostic testing at the roadside



Overview This standard is about conducting, recording and evaluating results of comparative testing and interpreting results at the roadside relating to straightforward diagnostic testing.

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Performance					
Criteria					
You must be able to:	P1	carry out a dynamic risk assessment to determine your scope of work			
		throughout the activity			
	P2	use suitable personal and vehicle protective equipment throughout all			
		diagnostic activities			
	P3	secure the immediate safety of the driver and passengers effectively			
	P4	make an initial judgement on the suitability for a roadside repair			
	P5	work in a way which minimises the risk of:			
		P5.1 damage to other vehicle systems, units and components			
		P5.2 damage to your working environment			
		P5.3 injury to self or others			
		P5.4 contact with leakage, hazardous materials/substances or high voltage			
		components			
	P6	identify symptoms in order to determine a system fault and cause			
	P7	take prompt and effective corrective actions to resolve any errors occurring			
		within the limits of your responsibility			
	P8	demonstrate the correct use of test equipment			
	P9	make suitable recommendations for rectification based on your findings			
	P10	ensure your records are accurate, complete, signed by the customer (where			
		appropriate) and passed promptly to the relevant person(s) in the required			
		format			
	P11	ensure your working practices conform to:			
		P11.1 health and safety requirements			
		P11.2 any legal requirements			
		P11.3 any contractual requirements			
		P11.4 current industry Code of Practice			
		P11.5 your workplace procedures			
		P11.6 any environmental requirement			



Knowledge and			
understanding			
You must know and	Legi	slative a	nd organisational requirements and procedures
understand:	K1	the legi	slation and workplace procedures relevant to:
		K1.1	health and safety
		K1.2	the environment including waste disposal
		K1.3	the current industry Code of Practice for Safe Roadside Working
		K1.4	appropriate personal and vehicle protective equipment for working at
		the r	oadside
	K2	legal ar	nd safe working requirements relating to the vehicle
	K3	your wo	orkplace procedures for:
		K3.1	recording diagnostic activities
		K3.2	the referral of problems
		K3.3	reporting delays to the completion of work
	K4	the imp	ortance of documenting diagnostic information
	K5	-	ortance of working to agreed timescales and keeping others informed of s/delays
	K6		rral process for faults relating to High Energy systems and components
	K7		ards associated with working on or near high voltage electrical vehicle
		compor	nents
	K8	the imp	ortance of adhering to a robust, documented handover procedure
You must know and		Vehicle	systems
understand:	K9	the sys	tem features and operating principles of:
		K9.1	electrical systems and circuits
		K9.2	engines
		K9.3	manual, automatic and semi-automatic transmission
		K9.4	manual and power assisted steering
		K9.5	fuel systems
		K9.6	independent and non-independent suspension
		K9.7	exhaust systems including catalytic convertors and diesel particulate
		filter	s (DPF)
		K9.8	brakes including ABS/EBS
		K9.9	cooling systems
		K9.10	high energy electrical systems

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- K10 how to recognise symptoms to determine a cause
- K11 how to recognise vehicle system faults

You must know and understand:

Use of diagnostic equipment

- K12 how to prepare and test the accuracy and functioning of diagnostic equipment required
- K13 how to use the appropriate diagnostic and testing equipment at the roadside
- K14 the types and causes of errors that can arise during the use of diagnostic equipment



Scope/range	1. Test equipment includes:
	1.1. multi-meter
	1.2. LED test probe
	1.3. inductive current clamp
	1.4. cooling system pressure tester
	1.5. fault code reader
	1.6. battery tester



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