

Continuous Professional Development (CPD)

Subject Framework Body Sector BS10125 Compliance





Body Sector BS10125 Compliance

Introduction

The IMI has worked with the industry to provide a Continuous Professional Development (CPD) subject framework for the body sector, BS10125 compliance. The following points are derived from the requirements set out in BS10125, in support of Annex A and from direct working with body sector representatives:

- CPD enables individuals to maintain their knowledge and skills for repair task areas as detailed in BS10125, by completing and passing relevant and approved CPD within 3 years of achieving the initial recognition, to retain recognition against BS10125.
- All CPD must be approved by an Awarding Organisation, in line with the requirements set out in BS10125.
- CPD will be delivered in various ways, such as, but not limited to face to face training, virtual classrooms and eLearning. The delivery method must be in a format that enables the most effective assessment to take place for the given knowledge or competence-based repair task, detailed within BS10125.
- CPD knowledge assessments must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.
- CPD knowledge assessments will be a Multiple-Choice Question (MCQ) test. MCQs will consist of a stem/question followed by four possible answers. One answer should be the correct choice plus three distractors.
- CPD knowledge assessment are not required to be invigilated.
- It is recognised that if delivering more than one 'C' unit together rules of combination may apply. Providing efficiencies of CPD delivery, due to a reduced number of learning hours where there are similarities in learning content.
- Delivering multiple "C" units together could also provide efficiencies for the CPD assessment requirements, in terms of a knowledge test and practical skills as shown in each 'C' unit where assessment crossover applies.
- CPD practical skills assessments must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.
- CPD practical skills assessments can be carried out in a training environment, or the individual's workplace, all assessments must be appropriate skills repair tasks and observed by competent assessors, as agreed with the relevant Awarding Organisation.

Resources, including vehicles used for practical skills assessments, must be suitable for the task, i.e. if using a vehicle for the practical skills assessment in C0 – Repair Preparation, it must be a vehicle with suitable safety related damage, where a safe & appropriate repair process can be established within the maximum permissible time for that assessment.

• Assessments will be internally and externally quality assured by the provider of the assessment(s) and the relevant Awarding Organisation.



PLEASE NOTE: Time for assessments <u>is not</u> included in the CPD unit hours. Example: C1 would be a minimum of 10hrs CPD, plus 75 minutes for the knowledge assessment.

The CPD subject framework set out in this document has been developed and agreed with an IMI Sector Advisory Group and Technical Working Group. There are 18 subject areas within the framework, aligned to the standard and Annex A. Each subject area has a given number of learning hours and the type of assessment required.

Best practice events will be scheduled annually and attended by Awarding Organisations, to support a standardised approach for the delivery of this framework.

This framework will be reviewed annually to ensure the content remains up to date and relevant, any updates being agreed by the IMI Sector Advisory Group and Technical Working Group in line with sector requirements and changes to BS10125.

For further information please email the IMI at hello@theimi.org.uk

For Office Use Only			
Issue and date	Change detail	Section/page	
Issue 1 - October 2022	Original	N/A	
Issue 2 – October 2022	Minor wording changes in some modules	Throughout	
Issue 3 – April 2023	Knowledge assessment invigilation	Page 4	
	MIG Brazing added to practical skills in C4	Page 11	
Owner: Product Development			

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C17 - Isolate/discharge, and Quarantine Hydrogen Fuel Systems	



Section One – Preparation

Unit Title:	C0 – Repair Preparation		
Task:	Carrying out repair preparation relevant and suitable to the repair capabilities declared.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met, as shown below, within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification and/or accreditation certificates in accident repair processes and procedures. To conduct a risk assessment of the vehicle's mechanical and electrical systems and identify requirements for safe isolation, discharge and/or quarantine of high-voltage, gas or fuel systems where required by the risk assessment or defined by the vehicle manufacturer, methodically and accurately inspect and assess all elements, including vehicle systems and identification of component part fitment, of a vehicle that has sustained damage and requires repair. Identify and record the assessed damage on a vehicle and determine (using prescribed relevant repair methods) which parts of the vehicle should be repaired or replaced and define and document the repair process; including reinstatement requirements.		
CPD Requirements	 Knowledge retained through recognised CPD: C0.1 Material construction and chemical composition of steels and aluminium's used in vehicle manufacturing and effects of cross contamination C0.2 To correctly identify the substrate material and select the appropriate repair process C0.3 The use and purpose of the various consumables used in corrosion protection and panel surface finishing C.SRS1 SRS and trim components used in vehicle construction** C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** ** SRS, ADAS and HV may be achieved separately or prior to this CPD unit Practical Skills retained through recognised CPD: Current competence in automotive repair preparation techniques 	Hours 10	



CPD Hours = C0 single unit – 10 Hours includes SRS, ADAS and High Voltage (if not already achieved)			
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type	Multiple Choice Questions	Maximum duration: 75 Minutes Number of questions: 36 6 questions from each knowledge topic (as shown above) Pass mark: 80%	
Assessment Type:	Practical Skills	Max Duration: 2 hoursList of Competencies:C0.4Establish incident circumstances including the use of imagesC0.5Establish and record vehicle dataC0.6Establish and record vehicle occupancy at the time of the incidentC0.7Establish and record the direction and area of impact of the incident damageC0.8Establish and accurately create and/or record an appropriate repair method(s)C0.9Identify and record all safety related componentsC0.10Establish a safe & appropriate repair process	



Section Two – Body and Frame

Unit Title:	C1 – Dent Removal on Steel and Aluminium Panels		
Task:	Panel beating, dent removal, shrinking, filling and surface preparation to remove cosmetic level damage to exterior or interior metal panels.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met, as shown below, within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate in the removal and refitting of soft and hard trim and the application of panel beating, shrinking techniques, dent pulling, surface finishing and filling.		
	Knowledge retained through recognized CPD:	Hours	
CPD Requirements	 Knowledge retained through recognised CPD: C1.1 Material construction and chemical composition of steels and aluminium used in vehicle manufacturing and effects of cross-contamination C1.2 Correctly identify the substrate material and select the appropriate repair process C1.3 The use and purpose for the various consumables used in corrosion protection and panel surface finishing C.SRS1 SRS and trim components used in vehicle construction** C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** 	10	
CPD Hours = C1 single ur	nit – 10 Hours includes SRS, ADAS and High Voltage (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type	Multiple Choice Questions Mumber of questions: 36 6 questions from each knowledge topic (as shown above) Pass mark: 80%		



Unit Title:	C2 – Plastic Repair and Surface Refinishing of Exterior and Interior Components		
Task:	Repair of scuffs, scratches and cracks, plastic welding of broken lugs and fixings.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria requirements have been met as shown below within proven competence.	after initial entry	
	Proven Competence: Apprenticeship or awarding organisation issued qualification certificate in remo and hard trim & in the application of plastic welding, surface finishing and filling.	val and refitting of soft	
CPD Requirements	 Knowledge retained through recognised CPD: C2.1 Material construction and chemical composition of plastics in vehicle manufacturing an of cross-contamination C2.2 To correctly identify the substrate material and select the appropriate repair process. C2.3 The use and purpose for various consumables used in plastic repair C.SRS1 SRS and trim components used in vehicle construction** C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potent impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repair vehicle with high voltage systems on board** 	ial 10	
CPD Hours = C2 single u	unit – 10 Hours includes SRS, ADAS and High Voltage (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type:	Multiple Choice QuestionsMaximum duration: 75 minutes Number of questions: 36 6 questions from each knowledge topic (as shown above) Pass mark: 80%		



Unit Title:	C3 – Refinishing		
Task:	Prepare surfaces; mix, apply and cure refinish products.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to prepare the vehicle for painting, including surface preparation, masking of panels, paint mixing and colour matching. In the application of refinishing materials, polishing and paint defect rectification.		
CPD Requirements	Knowledge retained through recognised CPD: C3.1 Material construction and chemical composition of materials used in vehicle manufacturing and effects of cross-contamination. C3.2 Correctly identify the substrate material and select the appropriate refinish process. C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** ** ADAS and HV may be achieved separately or prior to this CPD unit	Hours 10	
CPD Hours = C3 single ur	it – 10 Hours includes ADAS and High Voltage (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type:	Multiple Choice QuestionsMaximum duration: 80 minutes Number of questions: 40 10 questions from each knowledge topic (as shown above) Pass mark: 80%		



Unit Title:	C4 – Hot Metal Joining for Steel		
Task:	Resistance, MAG and MIG Braze welding of two or more steel materials to form a permanent joint of the materials.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to safely remove and replace permanently fixed steel panels, including sections. Competent in the application of Metal Active Gas (MAG) Welding & Metal Inert Gas (MIG) Brazing Operations & Resistance Spot Welding operations.		
		Hours	
CPD Requirements	 Knowledge retained through recognised CPD: C4.1 Material construction and chemical composition of steel in vehicle manufacturing and effects of cross-contamination C4.2 Correctly identify the substrate material and select the appropriate repair process C4.3 The use and purpose for the various consumables used in corrosion protection and panel surface finishing C.SRS1 SRS and trim components used in vehicle construction** C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** ** SRS, ADAS and HV may be achieved separately or prior to this CPD unit Practical Skills retained through recognised CPD: Current competence in automotive joining techniques using steel materials 	10	
CPD Hours = C4 single	unit – 10 Hours includes SRS, ADAS and High Voltage (if not already achieved)	ł	
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 75 minutes Number of questions: 36 Number of questions: 36 6 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Duration: 4 hours
Assessment Type:	Practical Skills	 List of Competencies: C4.4 Using appropriate personal protective equipment (PPE) including fume mask, extraction (HSE STSU1 – 2019 Requirement) and demonstrate working safely throughout the practical activity C4.5 Using appropriate sources of information throughout the assessment activity C4.6 Setting up all welding equipment C4.7 Carrying out test pieces and assess the suitability of MIG Brace and MAG welds C4.8 Preparing all metal materials appropriately and accurately C4.9 Carrying out test pieces and assess the suitability of MIG Brace, MAG, and spot welds C4.10 Completing a continuous vertical and overhead up MIG Brace and MAG weld – fillet and butt C4.11 Completing a series of resistance spot welds



Unit Title:	C5 – Hot Metal Joining for Aluminium		
Task:	MIG welding of two or more aluminium materials to form a permanent joint of the materials.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to safely remove and replace permanently fixed aluminium panels, including sections. Competent in the application of MIG Welding Operations.		
CPD Requirements	 of cross-contamination C5.2 Correctly identify the s C5.3 The use and purpose finishing C.SRS1 SRS and trim compor C.ADAS1 Advanced Driver Assisimpacts on system fur C.HV1 High Voltage systems vehicle with high volta ** SRS, ADAS and HV may be achieved Practical Skills retained through retained throtained through retained through retained throtained throtaine	and chemical composition of aluminium in vehicle manufacturing and effects n substrate material and select the appropriate repair process for the various consumables used in corrosion protection and panel surface nents used in vehicle construction** stance Systems (ADAS) including identification of and the potential nctionality as a result of repair** and the associated hazards and dangers with conducting repairs on a age systems on board** ved separately or prior to this CPD unit	Hours 10
CPD Hours = C5 single	unit – 10 Hours includes SRS, ADAS a	nd High Voltage (if not already achieved)	
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 75 minutes Number of questions: 36 Number of questions: 36 6 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Duration: 4 hours
		List of Competencies:
		C5.4 Using appropriate personal protective equipment (PPE) including fume mask, extraction (HSE STSU1 – 2019 Requirement) and demonstrate working safely throughout the practical activity
Assessment Type:	Practical Skills	 C5.5 Using appropriate sources of information throughout the assessment activit C5.6 Set up all welding equipment
		C5.7 Carrying out test pieces and assess the suitability of welds
		C5.8 Preparing all metal materials appropriately and accurately
		C5.9 Completing an aluminium MIG weld
		C5.10 Quality checks to all finished welds



Unit Title:	C6 – Cold Joining of Mixed and Multiple Materials		
Task:	Riveting and/or bonding of two or more material types to form a permanent joint of the materials.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to remove and replace permanently fixed (bonded/riveted) panels. Competent in the application of riveting and bonding agents.		
	Ha	ours	
CPD Requirements	 Knowledge retained through recognised CPD: C6.1 Identify various material types used in vehicle construction and the safe and appropriate joining techniques C6.2 The use and purpose for various consumables used in cold joining of materials C.SRS1 SRS and trim components used in vehicle construction** C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** ** SRS, ADAS and HV may be achieved separately or prior to this CPD unit Practical Skills retained through recognised CPD: Current competence in automotive cold joining techniques using mixed and multiple materials 	10	
CPD Hours = C6 single ur	nit – 10 Hours includes SRS, ADAS and High Voltage (if not already achieved)		
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 60 minutes Number of questions: 30 Number of questions: 30 6 questions from each knowledge topic (as shown above) Pass mark: 80%		



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		Max Duration	on: 4 hours 30 minutes
		List of Com	petencies:
		C6.3	Using appropriate personal protective equipment (PPE), vehicle protective equipment (VPE) and work safely throughout the practical activity
		C6.4 C6.5	Use appropriate sources of information throughout the assessment activity Use the correct tools and equipment throughout the assessment
		C6.6	Prepare an existing bonded and mechanically fixed panel section without causing damage
		C6.7	Prepare panel flanges, the replacement panel and the backing plate edges to receive adhesive and mechanical fastenings
Assessment Type:	Practical Skills	C6.8	Prepare and 'dry fit' the replacement panel section and backing plate to check the alignment/measurements
		C6.9	Prepare adhesive bonding material and application equipment
		C6.10	Produce adhesive test beads
		C6.11	Apply adhesive bonding material in accordance with the manufacturer's specification
		C6.12	Fitting and aligning of the replacement panel section
		C6.13	Remove excess bonding adhesive and achieve an acceptable cosmetic finish
		C6.14	Quality checks to joints formed and take necessary action



Unit Title:	C7 – Autoglazing		
Task:	Removal and replacement of direct bonded automotive glass.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to safely remove and replace the direct bonded glass.		
		Hours	
CPD Requirements	C7.1Use current techniques, mC7.2The use of direct glazing s range of vehicle substrateC.SRS1SRS and trim components Advanced Driver Assistan- impacts on system functioC.HV1High Voltage systems and 	 owledge retained through recognised CPD: C7.1 Use current techniques, methods, tools, and equipment C7.2 The use of direct glazing systems and how to select the appropriate products to use with a range of vehicle substrates and glazing materials C.SRS1 SRS and trim components used in vehicle construction** C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** 	
CPD Hours = C7 single ur	it – 10 Hours includes SRS, ADAS and Hig	h Voltage (if not already achieved)	
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 80 minutes Number of questions: 40 8 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Durati	on: 2 hours 30 minutes
		List of Corr C7.3	petencies: Using appropriate personal protective equipment (PPE), vehicle protective
		01.5	equipment (VPE) and work safely throughout the practical activity
		C7.4	Complete a pre-inspection of the vehicle, identifying all glazing related systems and their operation
		C7.5	Check new or existing glazing components for compatibility i.e. Correct quality of glass
		C7.6	Prepare the vehicle by removing all necessary MET components
A	Practical Skills	C7.7	Remove and replace vehicle system components using recognised procedures
Assessment Type:		C7.8	Remove glazing components using approved researched repair methods, manufacturer's technical data and without causing trauma to the vehicle body
		C7.9	Inspect and identify any defects once the glazing components have been removed from the vehicle
		C7.10	Carry out a 'dry fit' of the new or replaced glazing unit
		C7.11	Fit glazing unit and MET components following approved researched repair methods and manufacturer's technical data
		C7.12	Carry out suitable checks to ensure all components are fitted and working correctly



Unit Title:	C8 – Vehicle Body Alignment and Rectification		
Task:	Undertake measurements and realign any out of tolerance body or frame components to original specification.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to accurately identify misalignment of body/frame and ability to realign to original tolerances/spec. Ability to record pre and post-repair measurements accurately and to use pulling/pushing equipment and measuring equipment safely and effectively in such a way so as to not affect the structural integrity of the vehicle.		
CPD Requirements	C8.2understand the effC8.2The appropriate clC8.3To accurately interC.SRS1SRS and trim comC.ADAS1Advanced Driver Aimpacts on systemHigh Voltage systeC.HV1High Voltage syste	aterial types and joining technology used in vehicle construction and fects of body alignment on these lean down processes necessary to avoid any cross-contamination exposure rpret measurement data aponents used in vehicle construction** Assistance Systems (ADAS) including identification of and the potential in functionality as a result of repair** ems and the associated hazards and dangers with conducting repairs on a voltage systems on board** hieved separately or prior to this CPD unit h recognised CPD:	Hours 10
CPD Hours = C8 single u	nit – 10 Hours includes SRS, ADAS	and High Voltage (if not already achieved)	
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 75 minutes Number of questions: 36 Number of questions: 36 6 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Duration: 4 hours 30 minutes
Assessment Type:	Practical Skills	 List of Competencies: C8.4 Using appropriate personal protective equipment (PPE), vehicle protective equipment (VPE) and work safely throughout the practical activity C8.5 Using appropriate sources of information throughout the assessment activity including vehicle jig data sheets C8.6 Assess and check for pre-existing damage in the area of the vehicle C8.7 Identify and carry out a safe method of securing the vehicle to the alignment jig using the manufacturer's information C8.8 Identify and undertake the correct procedures for rectifying and realigning the vehicle to include: Identifying and carrying out preparation procedures to the underside of the damaged area before starting the measuring and repair process Ensuring that the vehicle is positioned/mounted to the jig safely and securely before carrying out the realignment/measuring Selecting the datum '0', the starting point on a reliable part of the vehicle Establishing secondary measurement positions to determine the alignment of the vehicle Aligning a vehicle within the vehicle manufacturer's tolerances Removing and dismounting the vehicle from the alignment system



Section Three – Electrical and Mechanical systems

Unit Title:	C9 – Road Wheels and Tyres		
Task:	Identification of faults and damage within road wheels, tyres and rectification through removal, repair, replacement and refit.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to undertake checks to identify damaged or out-of-tolerance components and reinstate them to the manufacturer's technical specification. Remove and replace tyres and to balance and torque road wheels.		
		Hours	
CPD Requirements	Knowledge retained through recognised CPD: C9.1 To correctly identify component and system faults associated with wheels, tyres C9.2 Directional/asymmetric, ultra-low profile and run-flat wheel and tyre assemblies C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** ** ADAS may be achieved separately or prior to this CPD unit		
CPD Hours = C9 single ur	nit – 10 Hours includes ADAS (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 60 minutes Number of questions: 30 Number of questions: 30 10 questions from each knowledge topic (as shown above) Pass mark: 80%		



Unit Title:	C10 – Steering, Suspension and Braking Systems				
Task:	Identification of faults and damage within steering, suspension and braking systems, rectification through removal, repair, replacement and refit of systems components.				
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to undertake system checks, identify damaged or out-of-tolerance components, remove, refit and replace components and assemblies of steering, suspension and braking systems and reinstate systems to manufacturer's technical specification. To carry out pre and post-repair data measurements of wheel alignment with the ability to make adjustments to align wheels, steering and suspension to manufacturers' specifications.				
		Hours			
CPD Requirements	Knowledge retained through recognised CPD: C10.1 Electrically controlled suspension, air ride and related sensors C10.2 Geometry and four-wheel alignment including identification of and the potential impacts on system functionality as a result of steering or suspension damage 1 C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** 1 C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** ** ADAS and HV may be achieved separately or prior to this CPD unit Practical Skills retained through recognised CPD: EVEN EVEN				
	Current competence in wheel alignment				
CPD Hours = C10 single u	CPD Hours = C10 single unit – 10 Hours includes ADAS and High Voltage (if not already achieved)				
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.				
Assessment Type:	Multiple Choice Questions Maximum duration: 80 minutes Number of questions: 40 10 questions from each knowledge topic (as shown above) Pass mark: 80% Pass mark: 80%				



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		Max Duration: 3 hours
		List of Competencies:
		C10.3 Using appropriate personal protective equipment (PPE), vehicle protective equipment (VPE) and demonstrate working safely throughout the practical activity
		C10.4 Using appropriate sources of information throughout the assessment activity
		C10.5 Carryout an accurate pre-wheel alignment checks
		C10.6 Set up wheel alignment equipment
Assessment Type:	Practical Skills	C10.7 Check rear wheel alignment, then front wheel alignment and record geometry readings
		C10.8 Compare all readings obtained against those set by manufacturer's data/specification
		C10.9 Record any deviation from the vehicle manufacturer's specification
		C10.10 Carryout adjustments in the correct sequence to ensure correct wheel alignment
		C10.11 Carry out final quality checks



Unit Title:	C11 – Advanced Driver Assistance and Automated Systems (ADAS)		
Task:	Alignment, calibration and reinstatement of advanced driver assistance and automated vehicle systems.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to identify sensors associated with Advanced Driver Assistance Systems (ADAS) and automated systems, diagnosing damaged and out-of-tolerance components, remove, refit and replace components and assemblies of ADAS and automated systems. Reinstate systems to manufacturer's technical specification and carry out pre and post data measurements of wheel alignment with the ability to make adjustments to align wheels, steering and suspension to manufacturer's specifications.		
	Ho	ours	
CPD Requirements	Knowledge retained through recognised CPD: C11.1 The types of sensors, and purpose, associated with ADAS and automated systems. C11.2 The potential impacts on system functionality as a result of repair C11.3 Geometry and four-wheel alignment including identification of and the potential impacts on system functionality as a result of steering or suspension damage C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board**	3	
	 Practical Skills retained through recognised CPD: Current competence in ADAS calibration 		
CPD Hours = C11 single u	unit – 8 Hours includes High Voltage (if not already achieved)		
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 80 minutes Number of questions: 40 10 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Duration: 2 hours
Assessment Type:	Practical Skills	 List of Competencies: C11.4 Using appropriate personal protective equipment (PPE), vehicle protective equipment (VPE) and demonstrate working safely throughout the practical activity C11.5 Using appropriate sources of information throughout the assessment activity C11.6 Identify ADAS features in-vehicle set-up C11.7 Set up the calibration environment by the manufacturer's instructions C11.8 Use diagnostic equipment for fault code reading and calibration process C11.9 Carryout calibration of ADAS sensors on a vehicle C11.10 Ensure all ADAS systems are functioning correctly on completion



Unit Title:	C12 – Supplementary Restraint Systems (SRS) Components			
Task:	Removal and refitting of interior and exterior trims (hard and soft); removal and refitting, correct/safe storage and replacement of SRS systems. Carry out pre and post-repair checks.			
	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence.			
Entry Requirements	Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to safely remove, store and replace soft, hard trim and SRS systems. Carry out pre and post-repair checks on systems, and interpret and report findings of diagnostic checks.			
			Hours	
CPD Requirements	Knowledge retained through recognised CPD: SRS components used in vehicle construction and the tools and equipment required to remove and fit such components including diagnostic equipment C12.1 SRS components used in vehicle construction and the tools and equipment required to remove and fit such components including diagnostic equipment C12.2 Ensure the safe storage of displaced parts C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** 10 C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** 10			
CPD Hours = C12 single u	unit – 10 Hours includes ADAS and	High Voltage (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.			
Assessment Type:	Multiple Choice Questions Maximum duration: 80 minutes Number of questions: 40 10 questions from each knowledge topic (as shown above) Pass mark: 80%			



Unit Title:	C13 – Make Safe and Repair Vehicle Electrical Systems of a low/medium Voltage		
Task:	Inspect, diagnose, repair or replace electrical systems and or components powered from the 12/24/48v power source.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to carry out varied forms of systems diagnostics including visual, functional and computerised inspections, checking systems for electrical malfunction and damage. To safely remove, refit or replace components of the electrical system. The use of multi-meters to diagnose, open, short and resistive circuit to include volt drop testing.		
		Hours	
CPD Requirements	 Knowledge retained through recognised CPD: C13.1 To identify electrical systems and components and the associated voltage of the power source Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board** ** ADAS and HV may be achieved separately or prior to this CPD unit 		
CPD Hours = C13 single u	init – 10 Hours includes ADAS and High Voltage (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Maximum duration: 60 minutes Number of questions: 30 Number of questions from each knowledge topic (as shown above) Pass mark: 80%		



Unit Title:	C14 – Transmission, Air Conditioning and other Driveline Systems		
Task:	Inspect, refit or renew damaged transmission and driveline components. Evacuate, repair and recharge the AC system.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to carry out varied forms of systems diagnostics including aural, visual, functional and computerized inspection, checking system for leaks, malfunctions and damage. To safely remove, refit or replace components and fluids of the mechanical and electrical systems of the vehicle. To remove, refit or replace driveline components including wheel hubs, cv joints, bearings, shafts etc.		
		Hours	
CPD Requirements	Knowledge retained through recognised CPD: C14.1 Emission control systems C14.2 To drain, store and replenish air conditioning systems C14.3 Identify and rectify leaks to vehicle systems C14.4 Driveline systems C14.4 Driveline systems C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** C.HV1 High Voltage systems and the associated hazards and dangers with conducting repairs on a vehicle with high voltage systems on board**		
CPD Hours = C14 single u	unit – 10 Hours includes ADAS and High Voltage (if not already achieved)		
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Multiple Choice Questions 5 questions from each knowledge topic (as shown above) Pass mark: 80%		



Section Four – Powertrain

Unit Title:	C15 – Internal Combustion Engine		
Task:	Inspect, refit or renew damaged engine and fuel system components.		
Entry Requirements	 This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to carry out varied forms of systems diagnostics including, aural, visual, functional and computerised inspection, checking system for leaks, malfunctions and damage. To safely remove, refit or replace components and fluids of the engine and fuel systems. Remove and refitting of a high-pressure fuel pump, fuel tank/ in-tank fuel pump/fuel pipes/injectors. 		
			Hours
CPD Requirements	C.ADAS1 Advanced Driver a impacts on systemC.HV1 High Voltage syst vehicle with high vehicle with vehicle with vehicle with vehicle with wi	ecognised CPD: Ind replenish engine and fuel fluids Assistance Systems (ADAS) including identification of and the potential In functionality as a result of repair** rems and the associated hazards and dangers with conducting repairs on a voltage systems on board** and separately or prior to this CPD unit	10
CPD Hours = C15 single	-	I High Voltage (if not already achieved)	
Assessment Method:	Knowledge Assessment, which must be created and delivered by the training provider to assess an individual's subject knowledge upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions	Maximum duration: 60 minutes Number of questions: 30 10 questions from each knowledge topic (as shown above) Pass mark: 80%	



Unit Title:	C16 – Make Safe Mild or High Voltage Electrical Systems		
Task:	Isolate/discharge and quarantine electrical systems powered from the 48/60v, or above, power source. Perform system checks, inspect, diagnose, repair or replace components of the system.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to be able to safely shut down and isolate the High Voltage system. The use of multi-meters to diagnose, open, short and resistive circuit to include volt drop testing. Carry out varied forms of systems diagnostics including visual, functional and computerised inspection, checking system for electrical malfunctions and damage. To safely remove, refit or replace components of the High Voltage electrical system and complete system diagnostics and fully reinstate the High Voltage system.		
		Hours	
CPD Requirements	Knowledge retained through recognised CPD: C16.1 High Voltage (HV) systems and the associated hazards and dangers with conducting repairs on a vehicle with HV systems on board C16.2 High Voltage electrics auxiliary and cooling systems C16.3 Ensure safe storage of components of a high voltage system C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** ** ADAS may be achieved separately or prior to this CPD unit Practical Skills retained through recognised CPD: • Current competence to safely shut down and isolate High Voltage Systems	8	
CPD Hours = C16 single	unit – 8 Hours includes ADAS (if not already achieved)		
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice QuestionsMaximum duration: 80 minutes Number of questions: 40 10 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Duration: 1 Hour
Assessment Type:	Practical Skills	 List of Competencies: C16.4 Using appropriate personal protective equipment (PPE), vehicle protective equipment (VPE) and demonstrate working safely throughout the practical activity C16.5 Using appropriate sources of information throughout the assessment activity C16.6 Identify AC and DC voltage symbols C16.7 Identify high voltage cabling & components C16.8 Identify vehicle high voltage status - pre/during/post service & repair activities C16.9 Follow procedures before removing/disarming the HV safety device C16.10 Measure any voltages to identify the vehicle is in a safe condition to carry out any other service/repair work C16.11 Identify how to connect an additional power source to a high voltage vehicle C16.12 Competently and safely use test equipment- including multimeter/equipment to measure AC and DC voltages C16.13 Reset vehicle systems post repair to ensure the vehicle is in condition to handover to the customer



Unit Title:	C17 – Isolate/discharge, and Quarantine Hydrogen Fuel Systems		
Task:	Inspect, diagnose, repair or replace hydrogen fuel systems and components.		
Entry Requirements	This unit allows the technician to plan CPD requirements across single or combined BS10125 criteria after initial entry requirements have been met as shown below within proven competence. Proven Competence: Apprenticeship or awarding organisation issued qualification certificate to be able to safely shut down and isolate the hydrogen system. Carry out varied forms of system diagnostics including visual, functional and computerised inspections, checking hydrogen systems for leaks, malfunctions and damage. To safely remove, refit or replace components, fluids and gases of the Hydrogen system and complete system diagnostics and fully reinstate the Hydrogen system.		
		Hours	
CPD Requirements	 Knowledge retained through recognised CPD: C17.1 Identify the different types of hydrogen fuel cell electric vehicle systems and associated hydrogen storage systems C17.2 Understand health and safety legislation, industry codes of practice and workplace procedures when working with hydrogen fuel cell electric vehicles C17.3 Ensure safe storage of components of a Hydrogen system C.ADAS1 Advanced Driver Assistance Systems (ADAS) including identification of and the potential impacts on system functionality as a result of repair** ** ADAS may be achieved separately or prior to this CPD unit Practical Skills retained through recognised CPD: 	10	
	 Current competence to safely shut down and isolate Hydrogen Systems 		
CPD Hours = C17 single u	init – 10 Hours includes ADAS (if not already achieved)		
Assessment Method:	Knowledge and Practical Skills Assessments, which must be created and delivered by the training provider to assess an individual's subject knowledge and skills upon completion of the CPD.		
Assessment Type:	Multiple Choice Questions Multiple Choice Questions Mumber of questions: 40 10 questions from each knowledge topic (as shown above) Pass mark: 80%		



		Max Duration: 1 Hour 30 minutes
Assessment Type:	Practical Skills	 List of Competencies: C17.4 Using appropriate personal protective equipment (PPE), vehicle protective equipment (VPE) and work safely throughout the practical activity C17.5 Ensure the work area is clearly identified using signs and barriers as appropriate, following environmental standards and regulations at all times C17.6 Using appropriate sources of information throughout the assessment activity C17.7 Identify that the vehicle has a hydrogen fuel cell system and collect
		 relevant technical information C17.8 Follow procedures before removing/disarming the hydrogen fuel cell system, and, where relevant the HV safety device C17.9 Measure any hydrogen system pressures, or system voltages to identify the vehicle is in a safe condition to carry out any other service/repair work C17.10 Competently and safely use test equipment C17.11 Reset vehicle systems post repair to ensure the vehicle is in condition to handover to the customer