

## **MENTORTRAIN – Higher Technician in Motor Vehicles**

Learning outcomes	Competences to be assessed	Soft skills
Electric, Safety and Comfort Systems	The apprentice:  - Fits electric circuits relating the running parameters of their components with the fundamentals and laws of electricity and electromagnetism.  - Interprets the operational status of electric, safety and comfort systems of vehicles relating their functionality with maintenance processes.  - Diagnoses failures in electric, safety and comfort circuits of vehicles interpreting the indications or values of the running parameters.  - Determines the repair procedures analysing the causes and effects of the failures identified.  - Performs maintenance operations on the electric, safety and comfort systems of vehicles, interpreting defined maintenance procedures.  - Plans important modifications and reforms in the area of electromechanics, relating the specifications of a certain reform with current legislation.	treat colleagues and customers with respect and courtesy.  -Build effective relationships with colleagues and customers  -Gain trust and pay attention to colleagues and customers concerns and needs  -Communicate effectively on a range of topics and with all sorts of different people  -Deliver results and achieve challenging goals.  -Contribute to problem-solving discussions and enjoy finding solutions to own and other people's problems.  -Suggest ways to make the business more efficient and contribute to its commercial growth.  -Constantly learn in order to improve own performance and that of the business



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Force Transmission Systems and Running Gear.	the operational status of the circuit	
LO3 Heat Engines and Their Auxiliary Systems		



	<ul> <li>Diagnoses breakdowns in the Otto engines and Diesel engines auxiliary systems, interpreting the indications or values of the running parameters.</li> <li>Determines the repair procedures analysing the causes and effects of the breakdowns identified.</li> <li>Performs operations for the repair of breakdowns on engines and their auxiliary systems interpreting defined maintenance techniques.</li> </ul>	
Non-structural Removable and Fixed Elements	The apprentice:  Draws sketches of parts and tools selecting the information described in the technical documentation and the established regulations.  Defines basic machining operations, interpreting the parameters that identify the same.  Replaces removable elements, accessories and upholstery interpreting the dismantling and fitting techniques and processes.  Identifies deformations of non-structural metallic and synthetic elements selecting the repair method, according to the specific deformation.  Applies techniques for the replacement of fixed elements relating the joint method with the elements to be joined according to the resistance characteristics.  Develops constructive solutions in order to carry out optional transformations and design small tools, assessing execution conditions and functionality.	
LO5	The apprentice:	





Surface Treatment	- Determines the repair process be applied by analysing the	
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and Coating	characteristics of the different layers of protection, levelling	
	and trimming of surfaces.	
	<ul> <li>Applies protection, levelling, sealing and soundproofing</li> </ul>	
	techniques, interpreting work procedures.	
	<ul> <li>Applies colourimetric techniques, in order to obtain the</li> </ul>	
	colour of the vehicle paint analysing the stipulated rules of	
	formulation and mixture.	
	<ul> <li>Applies surface trimming techniques, interpreting the given</li> </ul>	
	specifications and defined procedures Identifies the	
	produced defects in the application of paint analysing the	
	causes and their correction processes.	
	<ul> <li>Applies measures for risk prevention, personal safety and</li> </ul>	
	environmental protection assessing work conditions and risk	
	factors.	
LO6	The apprentice:	
Valsiala Ctm. atumal	<ul> <li>Recognises the parts and function of the structure relating</li> </ul>	
Vehicle Structural	techniques for the assembly of their components with the	
Parts	manufacturing and repair processes.	
	<ul> <li>Identifies structural deformations in vehicles relating</li> </ul>	
	applied burdens with the structural characteristics of the	
	bodywork.	
	<ul> <li>Diagnoses structural deformations in vehicles interpreting</li> </ul>	
	the established techniques and procedures.	
	Prepares estimates on bodywork repair assessing the	
	characteristics of the damages to be repaired.	
	Repairs structural parts of vehicles in the mainframe	
	analysing repair techniques.	
	Plans important modifications and reforms in vehicle	
	bodyworks relating to the specifications of a certain reform	
	with current legislation.	
LO7	The apprentice:	
LOI	тне арргенцев.	



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