

UNIT 1 : VEHICLE STABILITY MANAGEMENT SYSTEMS

1. CONDITIONS OF ACCESS TO THE UNIT:

TECHNICAL PRE-REQUISITES :

Before starting the training course, the student must be able to :

- Complete the maintenance on a standard breaking system (excluding ABS)

METHODOLOGY PRE-REQUISITES :

Before starting the training course, the student must be able to :

- Read an electrical diagram
- Identify the interactions of the peripheral systems
- Use an oscilloscope to visualise the signals from vehicle's systems
- Do tests with the help of a diagnostic tool
- Choose the appropriate documents for the job to be done

2. VALIDATION OF UNIT 1 :

Test: practical assessment in a real situation allowing the acquisitions obtained during the training course to be assessed

Objective of the assessment : Assess the capacities of the candidate to establish a diagnostic on a vehicle stability management system using the appropriate information and testing methods, and to repair the fault.

Duration: 2 hours 30 maximum

Material Necessary:

Written information about the problem

Vehicle presenting a malfunction on the vehicle stability management system

All useful technical documents

Equipped work station/ multimeter/ oscilloscope/ diagnostic tool....

NB





The assessment is to be done by at least two instructors competent in the professional field of automobile maintenance.

UNIT 1: VEHICLE STABILITY MANAGEMENT SYSTEMS

KNOWLEDGE	SKILLS	COMPETENCE
<p><u>K1:</u> Wheel anti lock break systems:</p> <p>K1.1: Theory of Operation Integrated system Additional system</p> <p>K1.2: Study of the Circuits Electrical Circuit (input/output) Hydraulic Circuit</p> <p>K1.3: Strategy of the logic controller</p> <p>K1.4: Diagnostic, maintenance and servicing</p> <p><u>K2:</u> Antiskid systems:</p> <p>K2.1: Theory of Operation</p> <p>K2.2: The electrical circuits (inputs/outputs)</p> <p>K2.3: The hydraulic circuits</p> <p>K2.4: Interaction between the auxiliary systems</p> <p>K2.5: Diagnostic, maintenance and servicing</p> <p>K2.6: Particularities of the control of the four-wheel drive system</p> <p><u>K3:</u> Stability control systems:</p> <p>K3.1: Theory of Operation</p> <p>K3.2: The electrical circuits</p> <p>K3.3: The hydraulic circuits</p> <p>K3.4: Sensors (inputs/outputs)</p> <p>K3.5: Diagnostic, maintenance and servicing</p>	<p>S1: Identify the elements constituting the wheel anti lock break system, the electrical and hydraulic connections and the particularities of the antiskid system and stability control</p> <p>S2: Establish a diagnostic procedure taking into account the possible interactions between the peripheral systems</p> <p>S3: Apply a testing procedure</p> <p>S4: Choose the nature of the action to be taken</p> <p>S5: Repair / Replace the components of vehicle stability management systems</p>	<p><u>C1:</u> Diagnose and repair a vehicle stability management system</p> <p>C1.1: Identify with precision the symptoms of the fault</p> <p>C1.2: Select the hypotheses of the fault depending on the symptoms</p> <p>C1.3: Test the system</p> <p>C1.4: Validate the malfunction and choose the appropriate action to be done</p> <p>C1.5: Respect the methods and schedule</p> <p><u>C2:</u> Organise the work respecting health and safety rules</p>

CREDIT POINTS



FINLAND	FRANCE	HUNGARY	ROMANIA
			
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