

Unit:	Pneumatic Brake System including EBS		
Prerequisites:	- Knowledge of the mechanical part of pneumatic brake systems.		
Work tasks that the student should be able to do after completing this unit:	The student is able to do basic check on the most common sensors and actuators in a pneumatic brake system		
Learning outcomes:	<i>Knowledge</i>	<i>Skills</i>	<i>Competences</i>
	- Know the most common symbols as used in a pneumatic brake system diagram.	- Read, follow and understand a pneumatic brake system diagram.	- Recognize components by view and connections.
	- Describe function of most important components of a pneumatic brake system.	- Carry out the needed periodical maintenance.	- Maintain a pneumatic brake system.
	- Describe performance of most important components of a pneumatic brake system.	- Make adjustments for correct operation or customer wishes.	- Measure air pressures to check correct operation / adjustments.
	- Know what periodical maintenance is required on a pneumatic (brake) system (not mechanical).		- Interpret outcomes of measurements and judge them on correctness.
	- Know why adjustments on a pneumatic brake system are important.		- Make a diagnosis by cause of consequences.
	- Know what adjustments on a pneumatic brake system are possible.		
	- Know where to make these adjustments on a		

	pneumatic brake system		
Reference to national qualification:	<p>Sweden – Fordon och Transportprogrammet (SeQF 4)</p> <p>France – BTS Après-Vente des Véhicules Automobiles - Option Véhicules Industriels - Classe Europe (poids lourds, camions)</p> <p>Turkey – Engine Vehicle technology Vocational School Turkey</p> <p>The Netherlands – Bedrijfsautotechnicus</p> <p>Finland - Vehicle Sector, competence area in Vehicle Technology, Vehicle Mechanic (EQF 4)</p>		
Reference to EQF/NQF:	The unit is too small to refer to an EQF level. Because it refers to an NQF this is an indirect reference to the EQF to which the regarding NQF belongs.		
ECVET points:	N/A		
Assessment:	<p>Student will be assessed based on his/her knowledge, skills and competences given in this unit.</p> <p>During the assessment, the assessment form will be used.</p>		
	<p>The student will be assessed during the time of the course and in an assessment situation.</p> <p>In the assessment situation the student will be assessed theoretical and practical in which he/she has to combine his/her knowledge, skills and competences.</p> <p>Within the practical part of the assessment the student should be able to carry out some maintenance, make some adjustments for correct operation / customer wish and make a diagnosis by cause of consequences on a pneumatic brake system.</p>		