

Section 3: Principles and practice of vehicle damage assessment



Purpose:

At the end of this unit candidates will be able to demonstrate a knowledge and understanding of:

- Qualities and qualifications of an automotive engineer assessor
- Vehicle inspections
- Costings and estimating
- Claims investigation
- Quality, environmental protection and health and safety legislation
- Paint fault.

Summary of learning outcomes	Number of questions in the examination *
1. Qualities and qualifications required of an automotive engineer assessor	
1.1 Understand the qualifications and qualities required of an automotive engineer assessor	Knowledge and application of these learning outcomes will be assessed in one question
1.2 Understand the responsibilities of an automotive engineer assessor	
1.3 Understand the procedure when instructed as an expert witness	
1.4 Understand the responsibilities to the principal as an agent	
2. Vehicle inspections	
2.1 Understand the requirements of a routine vehicle damage inspection	Knowledge and application of these learning outcomes will be assessed in three questions
2.2 Understand the requirements of a pre-purchase inspection	
2.3 Understand the requirements of a post repair inspection	
2.4 Understand the requirements of a third party inspection	
2.5. Understand requirements of an inspection for insurance purposes	
2.6 Understand the characteristics of a professional relationship with repairers	
2.7 Understand the automotive engineers role in identifying breaches of policy condition	
2.8 Understand the requirements when carrying out a special investigation	
2.9 Understand the rights of the Insurer and Insured with relation to the provision of indemnity.	
2.10 Understand the definition of a total loss and how to establish market value.	
2.11 Understand salvage categorisation and the ABI code of practice	
2.12 Understand the frequently used specialist terms used in connection with vehicle damage and repair.	

Summary of learning outcomes	Number of questions in the examination *
3. Costing and estimating	
3.1. Understand the requirements of inspection requests involving claims for loss of use and consequential loss.	Knowledge and application of these learning outcomes will be assessed in two question
3.2. Understand how to calculate depreciation using the straight line method, reducing balance method, sum of digits method & current costs method.	
3.3. Understand and apply accurately Thatcham estimating procedures	
3.4. Understand the codes used to identify the types of plastic used in vehicles.	
3.5. Understand the difference between thermoplastic and thermosetting plastic	
3.6. Understand the advantages of a computer assisted estimating and costing system.	
4. Claims Investigations	
4.1. Understand the difference between a latent defect and a patent defect.	Knowledge and application of these learning outcomes will be assessed in three questions
4.2. Understand the requirements of inspection requests involving a frost damage claim.	
4.3. Understand the requirements of inspection requests involving a fire/smoke damage claim	
4.4. Understand the requirements of inspection requests involving a vehicle theft or attempted theft.	
4.5. Understand the requirements of inspection requests involving a stolen/recovered vehicle	
4.6. Understand the requirements of inspection requests involving a flood damage claim	
4.7. Understand the requirements of inspection requests involving a diminution claim	
4.8. Understand the application of VAT to accident damage vehicles	
5. Health & Safety Legislation	
5.1. Understand the requirements of the Control of Substances Hazardous o Health Regulation 1999 (CoSHH)	Knowledge and application of these learning outcomes will be assessed in one question
5.2. Understand the requirements of the Environmental Protection Act	
5.3. Understand the requirements of the Hazardous Waste Regulations (HWR)	
5.4. Understand the requirements of the Solvent Emissions Directive	
6. Paint defects	
6.2. Understand the possible causes and appropriate rectifications for sinkage.	
6.3. Understand the possible causes and appropriate rectifications for blistering	
6.4. Understand the possible causes and appropriate rectifications for spotting/colour change due to chemical factors	
6.5. Understand the possible causes and appropriate rectifications for chequering	

Summary of learning outcomes	Number of questions in the examination *
6.6. Understand the possible causes and appropriate rectifications for feather edge lifting	
6.7. Understand the possible causes and appropriate rectifications for popping	
6.8. Understand the possible causes and appropriate rectifications for shrivel	
6.9. Understand the possible causes and appropriate rectifications for metamerism	
6.10. Understand the possible causes and appropriate rectifications for peroxide specks in metallic finishes	
6.11. Understand the possible causes and appropriate rectifications for cracking	
6.12. Understand the possible causes and appropriate rectifications for scratch opening	
6.13. Understand the possible causes and appropriate rectifications for dirt	
6.14 Understand the possible causes and appropriate rectifications for silicone cratering	
6.15 Understand the possible causes and appropriate rectifications for stone chipping and mechanical damage	
6.16. Understand the possible causes and appropriate rectifications for orange peel	
6.17 Understand the possible causes and appropriate rectifications for water marking and spotting	
6.18 Understand the possible causes and appropriate rectifications for cloudiness	

*The test specification is designed to be used as a guide and not absolute confirmation of the number of questions that will appear in the exam. The number of questions assessing each learning outcome will generally be within one of the number indicated