

Automotive Studies – Vocational – Level 1

Two-year course planner/outline scheme of work

<https://www.abcawards.co.uk/qualification/level-1-award-in-automotive-studies/>

Yr 10 - Autumn term 1				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Introduction to course, time plan and outline of content. Permission letters, requirement for overalls and safety boots.	Introduction to practical tasks. DT Workshop recap of H & S. Marking out and beginning of SPANNER practical.	Spanner combo.dtd	
2	1.1.1 H&S responsibilities / legislation Risk assessment. (Understanding risk – why it matters in commercial situations.)	Spanner. Drilling, cutting, filing. Input on tolerances.	Workbook & working drawings.	Risk assess own home. E.g. kitchen or workshop.
3	1.1.3 Health & Safety – Safety Equipment (e.g. PPE / Fire fighting.)	Spanner. Drilling, cutting, filing, heat treatment, case hardening, oil blacking.	Workbook & working drawings.	
4	1.1.3 Health & Safety – instruction to AS workshop, plan, layout, location of safety exits, equipment etc.	Hammer - Marking out, cutting blanks.	Workbook & working drawings.	
5	1.1.4 Health & Safety – Signs / instructions.	Hammer – Centre Lathe work, cutting threads.	Workbook & working drawings.	
6	1.2.1 Employment in the automotive industry.	Hammer – Centre lathe work, cutting threads.	** Guest speaker? Workbook & working drawings.	

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7	REVISION of Health & Safety topic.	END OF UNIT test & progress check on workbook.	Revision sheets & test.	
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Yr 10 - Autumn term 2				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	1.3.1 Environmental impact of vehicle emissions.	Hammer – Centre lathe work, cutting threads, shaping hammer head.	Link – MOT Emissions testing.	
2	1.3.2 / 1.3.4 Environmental impacts of automotive industry waste disposal.	CAD. Drawing the hammer practical to the specifications used.	Workbook & working drawings.	
3	1.3.3 Identify environmental impact of End of Vehicle Life disposal/recycling.	CAD. Drawing the hammer practical to the specifications used.	Workbook & working drawings.	
4	REVISION & End of unit test.	Hammer – Centre lathe work, cutting threads, shaping hammer head.	Workbook & working drawings.	
5	2.1.1 Recap H & S legislation as applied to DT workshop.	Hammer – Centre lathe work, cutting threads, shaping hammer head.	Workbook & working drawings.	
6	2.1.2 Recap PPE for manufacturing accessories or tools – practical work.	Hammer – Centre lathe work, cutting threads, shaping hammer head.	Workbook & working drawings.	

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7	2.2.1 Identifying engineering materials. Inc. Metals, non-metals, plastics.	Wrap up outstanding work all areas.	Workbook.	
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Yr 10 - Spring Term 1				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Mock Exams	Mock Exams	n/a	
2	Mock Exams	Mock Exams	n/a	
3	2.2.2 Identify engineering tools / fasteners and characteristics.	Introduction to AS workshop. Safety briefing.	Workbook.	
4	2.2.3 Handling engineering materials safely.	Removing / refitting braking components, checking serviceability & refitting. (3.2.1 / 3.3.1 / 3.4.1)	Workbook.	
5	2.4.1 / 2.4.2 . / 2.4.3 Disposing of engineering material waste.	Removing / refitting braking components. (3.2.1 / 3.3.1 / 3.4.1)		
6	How braking systems work.	Removing / refitting braking components. (3.2.1 / 3.3.1 / 3.4.1)		Brake systems components homework.

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7	Vehicle component identify.	Removing / refitting braking components. (3.2.1 / 3.3.1 / 3.4.1)		
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Yr 10 - Spring Term 2				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	3.1.1 – Health & Safety	Removing / refitting braking components. (3.2.1 / 3.3.1 / 3.4.1)		
2	3.1.2 – PPE use, storage, responsibilities	Write up Component 3, Task 4	Workbook.	
3	3.1.3. – Workshop tools revision / introduction (1/2 lesson)	Write up Component 3, Task 5 & 6 (part 1)	Workbook.	
4	Removing / refitting engine components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting engine components. (3.2.1 / 3.3.1 / 3.4.1)		
5	Removing / refitting engine components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting engine components. (3.2.1 / 3.3.1 / 3.4.1)		
6	Removing / refitting engine components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 1	Workbook.	

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7	Removing / refitting engine components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 2 & 3 (Part 1)	Workbook.	
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Yr 10 - Summer Term 1

Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)		
2	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)		
3	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)		
4	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)		
5	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)		
6	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 7	Workbook.	

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7	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 8	Workbook.	
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Yr 10 - Summer term 2

Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 10	Workbook.	
2	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 9 (Part 1)	Workbook.	
3	Removing / refitting steering & suspension components. (3.2.1 / 3.3.1 / 3.4.1)	Write up Component 3, Task 11	Workbook.	
4	Safety equipment and use (3.5.1)	Write up task 3, 6, 9, 11	Workbook.	
5	Disposal of waste material (hazardous & non-hazardous) inc. mechanical component waste. (3.5.2 / 3.5.3)	Write up task 3, 6, 9, 11	Workbook.	
6	Revision of topics so far and/or catch-up for missed sections. Check and update workbook.	Revision of topics so far and/or catch-up for missed sections. Check and update workbook.	Workbook.	

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7	Overflow	Overflow		
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Year 11 - Autumn term 1				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Health & Safety including legislation including PPE. (4.1.1 / 4.1.2 / 4.1.3)	Manufacturers procedures for fitting electrical components (4.1.1.) See task 6	Workbook	
2	Tool making – Oil filter tool (or other as specified by exam board.) NB: All pupils attempt this – aiming to raise level to Distinction with tolerance of <1mm	Tool making.	Working drawings.	
3	Workshop tools for electrical work. Removal and refitting procedures. (4.1.4)	Complete task 6 (if not completed) Workbook task 1	Workbook	
4	Tool making.	Tool making.	Working drawings.	
5	Types of vehicle battery, technical specifications & condition testing. (4.2.1)	Workbook task 2	Workbook	
6	Tool making.	Tool making.	Working drawings.	
7	Circuit types – making tester boards practical. (4.2.2)	Assembly of tester boards. Understanding key terms – series, parallel, open-circuit, short-circuit, high resistance.	Worksheet.	Keywords and definitions worksheet.

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Year 11 - Autumn term 2				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Tool making.	Tool making.	Working drawings.	
2	Bulb and lighting systems for automotive vehicles. (4.2.3)	Workbook task 5.	Workbook	
3	Tool making.	Tool making.	Working drawings.	
4	Assembly of a range of circuits and testing. (4.3.1. / 4.3.2)	Task 4, 6	Workbook.	
5	CAD drawings of tool as made.	CAD drawings of tool as made.	ICT Facilities.	
6	Identifying and correcting faults. (4.3.3)	Create fault finding flow-chart & Task 6.	Workbook.	
7	Tool making.	Tool making.	Working drawings.	

Year 11 - Spring term 1

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Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Safety equipment and waste disposal. (4.4.1 / 4.4.2 / 4.4.3)	Workbook Task 7.	Workbook.	
2	Assessment of work & completion of workbook.	Assessment of work & completion of workbook.		
3	Revision, end of unit test and assessment of workbook.	Revision, end of unit test and assessment of workbook.		
4	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Workbook, working drawings, course notes.	Write up missing assessment tasks.
5	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Workbook, working drawings, course notes.	Write up missing assessment tasks.
6	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Workbook, working drawings, course notes.	Write up missing assessment tasks.
7	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Catch-up, revision, workbook fill-in sessions, completion of tool-making exercise OR practical assessed tasks.	Workbook, working drawings, course notes.	Write up missing assessment tasks.

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Year 11 - Spring term 2				
Indicative Content				
Week	Lesson 1	Lesson 2	Links / Documents	Homework Task
1	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)	Guest speaker?	
2	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)		
3	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)		
4	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)		
5	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)		
6	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)		
7	Engine build or restoration project. (Non-assessed.)	Engine build or restoration project. (Non-assessed.)		