

iCourse Theory

Study Unit 2

Name:

Unit start date:

Unit finish date:

When returning work for assessment, please ensure that each unit is kept together by stapling or other means and that you complete the information above. Also please ensure that any additional worksheets are clearly marked with your name.

Study Unit No. 2

This pack contains:

- Study Instructions
- 1 x Question marking sheets
- Road sign marking/notes sheet
- 20 Multiple Choice Questions covering:
 - *Moving off*
 - *Mirrors use/teaching/vehicle regulations*
 - *Vehicle subsystems (engine/transmission)*
 - *Learner's attention span*
- Foundation questions
- Blank training notes sheet
- Blank 'Questions to ask a Trainer' sheet

Start by completing the Road Sign Quiz

Study Unit No. 2 - Road sign quiz

Use the numbered spaces below to write out the meaning of each sign shown in Step 2 of this unit. For added benefit, write a brief description of where you might find each sign and what action you would take - writing out this information will help you to easily remember the signs and will help to get you thinking about how you might explain the meaning and purpose of the signs to your future customers.

1.

2.

3.

4.

5.

6.

Please read this carefully before starting ...

The questions in this pack are designed to help you to learn and test your knowledge; we strongly suggest that you follow the study instructions found in the Study Unit Starter as opposed to trying to learn the answers by rote. While learning by rote might help you to pass the first part of the exam it would prove to be detrimental in the later stages of your training and reduce your chances of an early examination pass.

Some of the questions in iCourse question papers may address topic areas not covered in DVSA Part-One. The questions cover a broad range of topics designed to give you a good base for your new career in driving instruction.

To the best of our knowledge, all the questions on this paper are correct and up-to-date.

In the unlikely event of you finding a question that is out of date, or misprinted, you can help other students by contacting us - the question will then be amended. (support@smartdriving.org)

Important note

Some of the questions in SmartDriving iCourse have more than one correct answer (multiple-response). We do not 'flag' questions which have more than one correct answer. The questions are designed in this way to 'make you think more' and thereby increase your depth of knowledge. The DVSA also have some questions which require more than one answer, however, DVSA papers will state clearly when more than one answer is required.

Completing the questions

The next page has a reminder about how to complete the multiple-choice and foundation questions for best results.

First pass through the questions

Use this marking sheet to record answers on your first pass through the questions.

Your first pass through these questions should be done *before* researching any of your study material – it is simply to check your pre-study knowledge. Knowing the before and after level of understanding will help with your motivation.

Confidence score reminder:

4 = Absolutely certain

3 = Reasonably confident

2 = 50 / 50

1 = Unsure

0 = Blind guess (no idea so I picked an answer at random)

Remember, it's best to assess your level of confidence quickly as you look at the questions so as to capture your immediate 'gut feeling' about how confident you are in your answer. Confident scoring is instant – it's not an intellectual exercise!

Allow a maximum of 25 minutes for this exercise under test conditions.

Your Answers	Confidence Score First Pass	Correct Answers		Your Answers	Confidence Score First Pass	Correct Answers
1.				11.		
2.				12.		
3.				13.		
4.				14.		
5.				15.		
6.				16.		
7.				17.		
8.				18.		
9.				19.		
10.				20.		

After completing the first pass through the multiple-choice questions, check your answers (the correct answers are linked in the study unit) and add the correct answer reference (a,b,c or d) for incorrectly answered questions in the space provided above.

Next: Complete your research and study as directed until you fully understand the relevant material for the questions which were answered incorrectly or which have a low confidence rating (**two** or lower).

Complete the **Foundation** questions, noting the correct answer references (a b c or d) and reference to the relevant study material in the space provided on your Foundation worksheets (referencing the study source makes revision easier later on).

Second pass through the questions

When you have completed your study of all incorrectly answered questions and questions with a confidence score of two or lower and have completed all the Foundation Questions, repeat the multiple-choice test marking your answers and confidence score on the test papers – again do this in 25 minutes or less to emulate test conditions..

If your score is lower than 16 on your second pass, complete the whole unit again in full taking a little more time over your research (trying to rush your learning is a 'false economy' and will cause problems later on in your course).

Study Unit No. 2 - Questions

1. When moving away downhill, you should normally:

- a. use first gear
- b. use second gear
- c. use the most appropriate gear
- d. never use third gear

Confidence rating – 2nd Pass = 0 1 2 3 4

2. The footbrake should be used smoothly when pulling up. Would you advise new drivers that when braking to a complete halt:

- a. the brake pedal should be pressed hardest just as the car stops
- b. there should be little or no pressure on the brake pedal as the car stops
- c. brake pedal pressure should remain constant throughout
- d. brakes should be used progressively

Confidence rating – 2nd Pass = 0 1 2 3 4

3. When explaining ‘brake checks’, to a new learner, you should advise that if the footbrake feels spongy it is probable that there is:

- a. excessive wear on the brake pedal
- b. excessive wear on the brake drums
- c. air in the hydraulic system
- d. brake fluid contamination of the brake linings

Confidence rating – 2nd Pass = 0 1 2 3 4

4. Vehicles seen in convex mirrors may be:

- a. closer than they appear to be
- b. further away than they appear to be
- c. the same distance away as when viewed in a flat mirror
- d. travelling faster than when viewed in a flat mirror

Confidence rating – 2nd Pass = 0 1 2 3 4

5. All cars registered after a specific date must be fitted with an exterior, offside mirror. The date is:

- a. April 1982
- b. June 1980
- c. August 1978
- d. June 1968

Confidence rating – 2nd Pass = 0 1 2 3 4

6. Passenger cars registered after 2010 must be fitted with mirrors. These must be clean and in a serviceable condition. Where there is a good view through the rear screen the legally required mirrors are:
- right exterior mirror plus an interior mirror only
 - left and right exterior mirrors only
 - left and right exterior mirrors plus one interior mirror
 - interior mirror only

Confidence rating – 2nd Pass = 0 1 2 3 4

7. When moving off, before starting to move, it is necessary to check all of your mirrors and:
- signal if required
 - always look round over both shoulders
 - check all relevant blind spots
 - look round over the right shoulder only

Confidence rating – 2nd Pass = 0 1 2 3 4

8. Interior mirrors should be adjusted so that the driver can get the best view behind:
- by turning the head slightly to the left
 - without moving the head
 - by leaning slightly forward in the seat
 - from the normal driving (seating) position

Confidence rating – 2nd Pass = 0 1 2 3 4

9. When teaching a new driver about mirror use, you should advise that mirrors:
- should always be checked before changing speed or position
 - should usually be checked before changing speed or position
 - should only be checked before changing speed or position in busy traffic
 - should normally be used in pairs

Confidence rating – 2nd Pass = 0 1 2 3 4

10. 'The Official DVSA Guide to Driving, the essential skills' states that interior mirrors should be adjusted to give the best possible view:
- especially to the nearside
 - especially to the offside
 - especially directly behind
 - with minimal head movement

Confidence rating – 2nd Pass = 0 1 2 3 4

11. 'The Official DVSA Guide to Driving, the essential skills' recommends that you should:
- get into the habit of glancing in the mirror every 5 seconds
 - get into the habit of glancing in the mirror frequently
 - get into the habit of glancing into the mirror all the time.
 - use the mirror when approaching hazards

Confidence rating – 2nd Pass = 0 1 2 3 4

12. After using an interior anti-dazzle mirror you must always remember to:
- reset the mirror for normal use
 - slow down to allow your eyes time to readjust to the light
 - check the door mirrors to ensure that the road is clear behind
 - slow down if there is a closely following vehicle

Confidence rating – 2nd Pass = 0 1 2 3 4

13. The sequence of the four-stroke cycle is:
- induction, compression, ignition, exhaust
 - induction, ignition, compression, exhaust
 - induction, compression, exhaust, ignition
 - suck, squeeze, bang, blow

Confidence rating – 2nd Pass = 0 1 2 3 4

14. The camshaft controls the:
- stroke of the pistons
 - opening and closing of the valves
 - ignition timing.
 - camber of the wheels

Confidence rating – 2nd Pass = 0 1 2 3 4

15. The four-stroke cycle is sometimes known as the:
- Timing cycle
 - Benz cycle
 - Otto cycle
 - Hillman cycle

Confidence rating – 2nd Pass = 0 1 2 3 4

16. Inlet and exhaust valves control the flow of fuel, air and burnt gases, both into and out of the:
- cylinders
 - carburettor
 - distributor
 - injector pump

Confidence rating – 2nd Pass = 0 1 2 3 4

17. The gearbox and final drive form part of the:
- hydraulic system
 - engine
 - suspension system
 - transmission system

Confidence rating – 2nd Pass = 0 1 2 3 4

18. Items to be checked by a driver every day include:
- the oil level
 - the operation of the horn
 - the brake fluid level
 - brakes

Confidence rating – 2nd Pass = 0 1 2 3 4

19. A badly fitting or loose alternator belt is likely to result in:
- a leaking radiator
 - a damaged water pump
 - an overcharged battery
 - an undercharged battery

Confidence rating – 2nd Pass = 0 1 2 3 4

20. If, after asking a question, you get an answer that is not fully correct you should:
- interrupt the learner's answer as soon as he/she goes wrong
 - praise the correct element and then offer a clear explanation
 - tell the learner that he/she needs to try a bit harder
 - ignore the correct element and offer a clear explanation

Confidence rating – 2nd Pass = 0 1 2 3 4

Foundation ...

The Foundation questions are designed to enhance your knowledge by helping you to interact with some of the underlying concepts of the material.

Passing the ADI qualifying examination is the first step on the ladder to your new career. The Foundation questions will help you to take that step more easily by underpinning your knowledge of facts and figures with an understanding of true meaning that will enable you to apply your knowledge in a wider range of situations.

Perhaps more importantly it is important to recognise that, as in any trade or profession, some practitioners are more accomplished, better, than others. As a general rule, those who are better able to do the job, who have a better understanding of their role, are able to give better service and reap better rewards.

By working through the Foundation questions you will begin a process that can, with a little work and effort, make your life easier and help to make your future more prosperous.

Foundation - Study Unit 2

1. Correct answer = a b c d

References:

Write a short paragraph to briefly explain the use of gears when moving off downhill.

2. Correct answer = a b c d

References:

Think of a metaphor that you could use to describe the pressure that is used on the brake pedal when stopping.

3. Correct answer = a b c d

References:

What are 'static' and 'rolling' brake tests and why is it important to explain these to a new driver?

4. Correct answer = a b c d	References:
<p>Write two questions that you could use to help a learner understand about convex mirrors (Tip: it might be easier to think of the questions if you go out and sit in the car).</p>	

5. Correct answer = a b c d	References:
<p>Briefly explain the minimum legal requirements for mirrors fitted to cars that are used for driving tests.</p>	

6. Correct answer = a b c d	References:
<p>How might you explain (to your learners) the dangers of 'mascots' (furry dice, etc.) when hung from the interior mirror? (Tip: take something out to hang onto your mirror).</p>	

7. Correct answer = a b c d	References:
Briefly explain the relevance of the correct answers to road safety.	

8. Correct answer = a b c d	References:
Apart from the issues raised in the question, what else will you tell your learners about with regard to adjusting mirrors?	

9. Correct answer = a b c d	References:
Think of an experience of your own, or something that you have witnessed, that reinforces the information in question 9.	

10. Correct answer = a b c d	References:
How can you make sure that your learners are adjusting their mirrors correctly?	

11. Correct answer = a b c d	References:
Write a short paragraph that <i>briefly</i> explains the correct use of mirrors.	

12. Correct answer = a b c d	References:
Think of two questions that would help your learners to understand about correct mirror use at night.	

13. Correct answer = a b c d	References:
<p>For questions 13 to 17 you need to know the basic principles about how the car works. http://auto.howstuffworks.com/ is a useful starting point with pictures/animations. The Driving Instructor's Handbook has explanations and You-Tube is also a good resource. After doing some research, consider how the explanations refer to your own car.</p>	

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18. Correct answer = a b c d	References:
<p>Write out a brief 'checklist' of vehicle items that a driver should check every day.</p>	

19. Correct answer = a b c d	References:
Briefly explain the purpose of the alternator.	

20. Correct answer = a b c d	References:
How does it feel when you try to do something and then someone is critical of your efforts? With this in mind, why is it important to be encouraging towards you learners and how will this help their learning progress?	

When you have completed your research and study and are happy with your Foundation answers, complete main questions again under test conditions – you have 25 minutes and your target score is 19.



Notes and Reflective thoughts

Questions to ask a Trainer