

# iCourse Theory

## Study Unit 10

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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. 10

*This pack contains:*

- Study Instructions
- 1 x Question marking sheets
- Road sign marking/notes sheet
- 20 Multiple Choice Questions covering:
  - Instructional techniques
  - Pedestrian safety
  - Mechanical principles
  - Driver's observation
- Foundation questions
- Blank training notes sheet
- Blank 'Questions to ask a Trainer' sheet

**Start by completing the Road Sign Quiz**

## Study Unit No. 10 - 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In the unlikely event of you finding a question that is out of date, or misprinted, you can help other students by contacting us - the question will then be amended.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](mailto: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. 10 - Questions

1. Some driving instructors have two dual-mirrors inside the car, one is a normal rear view mirror and the other is:
- to help reduce blind spots to the right
  - to watch the pupil's eyes
  - a long range rear view mirror
  - to watch pupils secretly

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

2. Before using the dual-footbrake or taking control of the steering wheel, an instructor must:
- warn the pupil of his/her intention
  - check the position of the gear lever
  - check the dual mirror
  - ensure that the road is clear ahead

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

3. The most common driving school accident is probably a:
- high speed collision
  - rear end shunt
  - burst nearside front tyre
  - burst offside front tyre

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

4. A guide dog, accompanying a blind person with hearing difficulty, will usually have:
- an orange lead and collar
  - a red and white harness
  - a red collar and dog jacket
  - a fluorescent green lead and collar

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

5. The traffic lights at an equestrian crossing have:
- no amber phase in the light sequence
  - the same sequence of lights as Pelican Crossings
  - an extended amber light phase
  - the same sequence of lights as normal traffic lights.

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

6. When teaching learner drivers about mini-roundabouts, you should advise that the entrance to the roundabout is normally marked by a mini roundabout sign plus:
- a solid white line
  - a broken white line
  - two broken white lines
  - two solid white lines

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

7. Collapsible steering columns are fitted to cars:
- to allow for access to offset pedals
  - as a safety feature
  - extra flexibility for steering wheel position adjustment
  - for driver comfort

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

8. To turn a corner, each of the rear wheels must turn at a slightly different speed. The device that allows this in a rear-wheel drive car is:
- the flywheel
  - the universal joint
  - the half shaft
  - the differential

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

9. The clutch centre plate is positioned between the pressure plate and:
- the prop-shaft
  - the flywheel
  - the gearbox
  - the thrust bevel

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

10. The range of engine speeds for motor cars can vary. Sports and racing cars can have higher engine speeds than the average family saloon. A typical range of engine speeds for the average car would be between:
- 1200 and 10,000 rpm
  - 700 and 6000 rpm
  - 100 and 2000 rpm
  - 50 and 500 rpm

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

11. A rear-wheel drive car is one which has:
- a. the engine mounted at the rear
  - b. been optimised maximum traction
  - c. rear-wheel steering active at low speed
  - d. the engine connected to the rear wheels only

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

12. The crown wheel can be found in the:
- a. gear box
  - b. crankcase
  - c. final-drive assembly
  - d. clutch

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

13. Shock absorbers are fitted to cars, to:
- a. absorb the impact in a head on collision
  - b. absorb the impact in a rear end collision
  - c. prevent excessive bouncing
  - d. earth the electrical system

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

14. The DVSA publication ‘the official guide to learning to drive’ advises test candidates that when reverse parking they should:
- a. stop reasonably close and parallel with the kerb
  - b. stop as close as possible to the edge of the road
  - c. never park in the gutter
  - d. not stop too close to the edge of the road

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

15. The DVSA publication ‘the official guide to learning to drive’ advises, when discussing anticipation, that when you encounter emergency vehicles you should:
- a. always stop
  - b. not panic
  - c. speed up to get out of the way
  - d. not look at the emergency vehicle

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4



16. If a pupil seems to have difficulty, anticipating the actions of other people on the road and often has to stop quickly as a result, would your primary advice to him/her be:
- to look further ahead along the road
  - to drive slower in town
  - take a reaction time test
  - to avoid busy areas after passing the test

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

17. To help drivers at night there are marker posts on the left-hand side of some roads, particularly near bends. These posts have black and white bars and a:
- red reflector
  - white reflector
  - green reflector
  - amber reflector

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

18. In traffic queues it is:
- not a legal requirement to leave pedestrian crossings clear
  - a legal requirement to leave pedestrian crossings clear
  - only necessary to leave pedestrian crossings clear if someone is crossing
  - good practice to keep pedestrian crossings clear

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

19. The advice that should be given to learner drivers, who have stopped at a zebra crossing to allow someone to cross, is:
- invite the pedestrian to cross by a wave of the hand
  - only wave the pedestrian on if you are sure the road is clear
  - never invite a pedestrian to cross during the driving test
  - never invite a pedestrian to cross

Confidence rating – 2<sup>nd</sup> Pass = 0 1 2 3 4

20. If a zebra crossing is split into two halves, with a central refuge for pedestrians:
- you may treat the crossing as two separate crossings
  - you must not treat the crossing as two separate crossings
  - the crossing can only be treated as two separate crossings if it is staggered
  - it is usually best to ignore the central reservation

Confidence rating – 2<sup>nd</sup> 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 10**

<p>1. Correct answer = a b c d</p>	<p>References:</p>
<p>If you elect to take part three training with a SmartDriving Approved Trainer he/she will explain why the second instructor's mirror (the eye mirror) might be as much of a hindrance as a help.</p> <p>Can you think of any reason why a small second mirror, placed in the top left-hand corner of the windscreen and used to watch the pupil's eyes might not give you the best overall picture of what your pupil is doing?</p>	

<p>2. Correct answer = a b c d</p>	<p>References:</p>
<p>It is probably even more important for a driving instructor to be aware of what's happening behind the car than it is for a driver, why do you think this is?</p>	

<p>3. Correct answer = a b c d</p>	<p>References:</p>
<p>Given that the most common driving school accident is probably the 'rear end shunt', how can the effective use of the instructor's rear view mirror help prevent this type of accident?</p>	

4. Correct answer = a b c d	References:
<p>Not all blind people are accompanied by guide dogs, what else might signify that a pedestrian is blind?</p>	

5. Correct answer = a b c d	References:
<p>Thinking as a defensive driver, what additional hazards or problems might be present at, or near, a Pegasus crossing?</p>	

6. Correct answer = a b c d	References:
<p>Given that circular signs with a blue background give positive orders, what is the <i>literal</i> meaning of a mini roundabout sign?</p>	

7. Correct answer = a b c d	References:
<p>'Secondary safety' is the term given to vehicle design features that help prevent injury in accidents. What you think that the term 'primary safety' refers to?</p>	

8. Correct answer = a b c d	References:
<p>There is no specific Foundation Question linked to this multiple choice question. It might be worthwhile taking a look at <a href="http://auto.howstuffworks.com/">http://auto.howstuffworks.com/</a> for more info. (You can use the space below for any notes relating this question.)</p>	

9. Correct answer = a b c d	References:
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14. Correct answer = a b c d	References:
<p>Slow speed manoeuvres are assessed against the required competencies of ‘observation, control and accuracy’; which of these three competencies is likely to cause most problems, in your opinion, during driving tests (both for learners and ADI students)?</p>	

15. Correct answer = a b c d	References:
<p>Question 15 relates to emergency vehicles. What advice would you give to a new driver who sees an emergency vehicle coming up behind when on a narrow road with no passing places?</p>	

16. Correct answer = a b c d	References:
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In Unit 5, you downloaded a 'scanning diagram'. Spend 5 or 10 minutes thinking about how you would use this diagram to explain 'anticipation' to your pupils. (Tip: It is often useful to draw on diagrams - if you place the diagram in a plastic sleeve, you can use a 'dry wipe' marker pen to write or draw directly onto the diagram - wiping it clean afterwards)

17. Correct answer = a b c d	References:
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Apart from roadside reflectors, what else do you find on our roads and in our sign system that can help drivers at night? (Example, white cats eyes)

18. Correct answer = a b c d	References:
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In addition to leaving pedestrian crossings clear, it is often a good idea to leave a one or two car length gap clear beyond the crossing. Can you think of a reason for this?



19. Correct answer = a b c d	References:
<p>What are the potential dangers of beckoning a pedestrian to cross the road, at a crossing or in any other location?</p>	

20. Correct answer = a b c d	References:
<p>Does the fact that a straight zebra crossing with an island (central refuge) can be treated as two crossings mean that drivers can ignore pedestrians who are not crossing on their side of the road? Briefly explain your answer.</p>	

**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**