

# iCourse Theory

## Study Unit 8

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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. 8

*This pack contains:*

- Study Instructions
- 1 x Question marking sheets
- Road sign marking/notes sheet
- 20 Multiple Choice Questions covering:
  - Mechanical principles
  - Accidents
  - Driving procedure
  - ADI qualification
- Foundation questions
- Blank training notes sheet
- Blank 'Questions to ask a Trainer' sheet

**Start by completing the Road Sign Quiz**

## Study Unit No. 8 - 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In the unlikely event of you finding a question that is out of date, or misprinted, you can help other students by contacting us - the question will then be amended.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. 8 - Questions

1. The power used by the electrical system, of most cars, is generated by:
- the battery
  - the distributor
  - the alternator
  - the dynamo

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

2. A dirty air filter causes:
- water contamination in the fuel
  - a weaker fuel mixture
  - a richer fuel mixture
  - poor engine performance

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

3. During normal running, the engine needs:
- the same fuel mixture as when cold
  - a richer fuel mixture than when cold
  - a leaner fuel mixture than when cold
  - an unleaded fuel mixture

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

4. A possible cause of starvation of fuel at the cylinders is:
- incorrect ignition timing
  - the wrong grade of fuel being used
  - sediment in the fuel tank
  - water in the fuel system

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

5. Which of the following courses of action could damage a catalytic converter?
- using the wrong grade of engine oil
  - using jump leads to start the engine
  - tow-starting
  - driving too slowly

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

6. The first priority at the scene of an accident is to:
- move any casualties off the road
  - clear away broken glass which may cause further injury
  - prevent further collisions or fire
  - check to see if casualties are breathing

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

7. The DVSA publication ‘the official guide to learning to drive’ gives advice about signalling and states that you should:
- only use the signals shown in The Highway Code
  - use arm signals only if your indicators fail
  - not use arm signals during a driving test
  - always make sure that you cancel your signal after a manoeuvre

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

8. When advising about making progress, The DVSA publication ‘the official guide to learning to drive’ states that you:
- cannot exceed the speed limit to overtake
  - must not exceed 60 mph during an L test
  - should usually drive at 30 mph in a built up area
  - should use your judgement and drive according to the conditions

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

9. The DVSA publication ‘the official guide to learning to drive’ gives advice about speed during the driving test. It states that you should:
- always keep up to the speed limit
  - respond to changing conditions
  - not exceed 40 mph
  - not exceed 50 mph

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

10. When advising pupils about ‘crossing the path of other vehicles’ you should tell them to:
- complete the manoeuvre as quickly as possible
  - watch out for pedestrians
  - never flash the headlamps
  - only drive across if you could quickly walk across

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

11. In the event of a vehicle breakdown, on a railway level crossing, the first priority of a driver, who has three passengers on board, is to:
- phone the signalman
  - move the vehicle
  - get the passengers clear
  - wave approaching trains to stop

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

12. When instructing a learner driver to negotiate traffic lights, you should advise that the meaning of a steady amber light showing alone is to:
- give way to pedestrians
  - prepare to move off
  - stop
  - move off if it is safe and clear

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

13. When taking the last exit or going full circle at a roundabout, the Highway Code states that the correct signalling procedure is:
- signal right on approach and then signal left after you have passed the exit before the one you want
  - no signal on approach with a left turn signal after the exit before the one to be taken
  - signal right on approach and no signal to exit
  - signal right on approach and a left turn signal only if you need to change lanes

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

14. At an open level crossing with no gates, barriers, attendant or traffic signals, you would normally expect to see a:
- 'warning – turn back' sign
  - 'Give Way' or 'Stop' sign
  - flashing amber beacon
  - 'No entry' sign

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

15. After passing Part-Two of the ADI exam a person can apply for a trainee licence. The normal procedure is that:
- only one licence will be granted
  - a second licence will always be granted on request
  - a second licence will be granted only in exceptional circumstances
  - a second licence will never be granted

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



16. The official meaning of a green traffic light is:

- a. proceed with caution
- b. drive on if the way is clear
- c. caution
- d. go

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

17. At conventional roundabouts you should always:

- a. keep the car moving
- b. give way to traffic from the immediate right
- c. stop and give way to traffic on the roundabout
- d. give way to all traffic on the roundabout

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

18. You are driving towards a roundabout with four lanes on the approach. There is no other traffic ahead, behind or in the roundabout. If you wish to follow the road ahead you should use the:

- a. left-hand lane
- b. centre lane
- c. right-hand lane
- d. most convenient lane for your exit

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

19. Roads can become very slippery when they get wet. The problem is worst:

- a. when it has been raining hard for some time
- b. when it has just started to rain after a long dry spell
- c. when it has stopped raining
- d. after dark

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

20. A straight Pelican crossing with a central island should be treated as:

- a. two separate crossings
- b. one crossing
- c. two crossings if the amber lights flash
- d. one crossing if the amber lights flash

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 8**

1. 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>	

2. 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>	

3. 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>	

4. Correct answer = a b c d	References:
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.)	

5. Correct answer = a b c d	References:
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.)	

6. Correct answer = a b c d	References:
If you are alone on a country road and you are the first to arrive at the scene of an accident, what actions might you take to warn other road users, bearing in mind that you might need to attend to casualties?	

7. Correct answer = a b c d	References:
<p>Given the information in the Highway Code about signals, briefly offer an opinion outlining your thoughts on the actions of driving instructors who 'wave on' other vehicles while their pupils are completing slow speed manoeuvres.</p>	

8. Correct answer = a b c d	References:
<p>Do you consider that it is reasonable to expect learner drivers to keep up with the traffic flow? Briefly explain your answer.</p>	

9. Correct answer = a b c d	References:
<p>Why is it important for pupils to drive on high speed roads before taking a driving test?</p>	

<p>10. Correct answer = a b c d</p>	<p>References:</p>
<p>Apart from judging the speed of approaching traffic, what other important factors will you stress to your pupils about crossing the path of traffic to turn right?</p>	

<p>11. Correct answer = a b c d</p>	<p>References:</p>
<p>Can you think of a way that someone who is on their own might be able to move a broken down vehicle from a railway level crossing (given sufficient time) without pushing the vehicle?</p>	

<p>12. Correct answer = a b c d</p>	<p>References:</p>
<p>As a driving instructor, what action might you take to ensure that your pupils are not caught out by traffic lights changing from green to amber?</p>	

13. Correct answer = a b c d	References:
<p>Occasionally, you will see a heavy goods vehicle using the left-hand lane of a roundabout but signalling to the right. Why do you think that the driver is taking this course of action and what precautions do you need to take?</p>	

14. Correct answer = a b c d	References:
<p>Most people would agree that it's normally a good idea to stop when you arrive at an open level crossing. Why might it also be a good idea to get out of the car and check that the line is safe to cross?</p>	

15. Correct answer = a b c d	References:
<p>How do you think that you might benefit from a 'Trainee License'?</p>	

16. Correct answer = a b c d

References:

When some learners tackle traffic lights for the first time, they are a little nervous about moving off quickly enough if they are the first car in the queue. How might you help overcome this fear?

17. Correct answer = a b c d

References:

How can you maximise your chances of *not* having to stop at a roundabout?

18. Correct answer = a b c d

References:

Some advanced driving books suggest that it is okay to 'straight line' an empty roundabout, ignoring the road markings. Why do you think that this might not be good practice to teach to new drivers?



19. Correct answer = a b c d	References:
<p>What causes roads to become very slippery after a rain shower in the summer?</p>	

20. Correct answer = a b c d	References:
<p>Why do you think that the rules for a straight zebra crossing with an island differ from the rules for a straight pelican (or other traffic light controlled) crossing with an island?</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**