

# Advanced Driver Course – Webinar #2

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# Objectives



## Advanced Driver Course – Webinar #1



- Reviewed the course so far
- OAP
- Limit Points
- Steering
- The test.

## Advanced Driver Course – Webinar #2



- Overview of advanced driving
- Cockpit Drill
- Human Factors
- IPSGA
- Hear from Elliot.

# Principles of advanced driving



Advanced driving is the ability to control the position and speed of the vehicle safely, systematically and smoothly, using road and traffic conditions to progress unobtrusively with skill and responsibility.

- Sustained concentration – driving ‘consciously’
- Observation, anticipation and planning
- An ability to control emotion when driving
- An active (but not overactive!) imagination
- Smoothness with the controls
- Accuracy of position and speed.



# Cockpit Drill

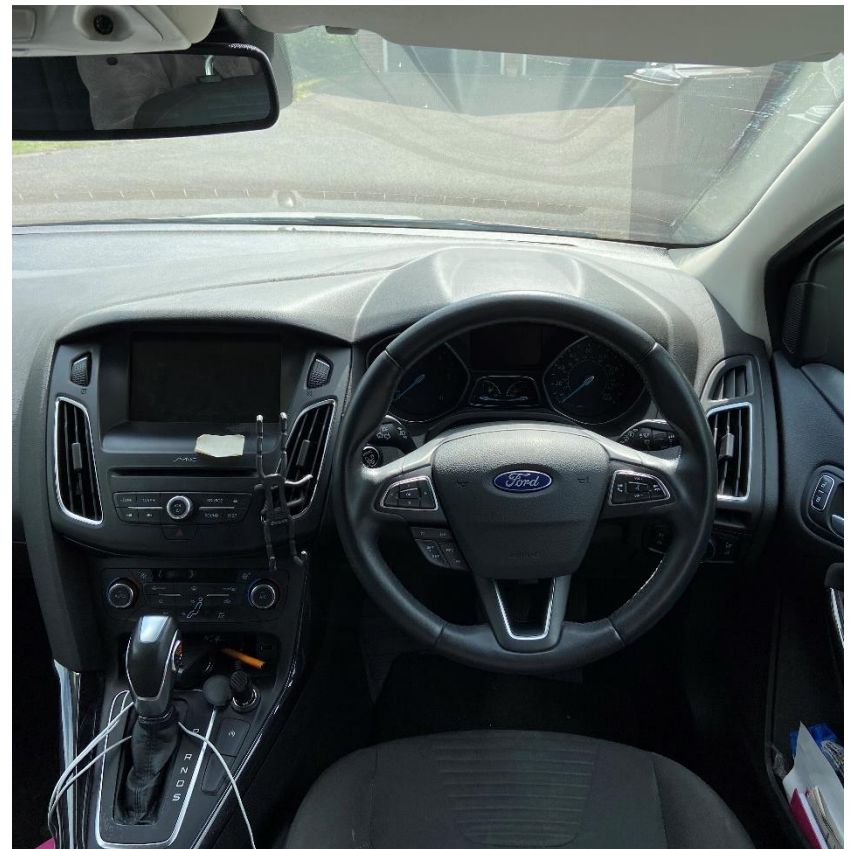
ADC Handbook pg. 98-99

# What you need to achieve

## Knowledge

Does the associate understand the concept and application of IPSGA? Do they have a sound understanding of the Highway Code and our advanced course materials? Do they have a sound knowledge of the technology fitted to their vehicle? This section is also to be used when a cockpit drill is performed.

- Start at the top and work down
- About the car you're driving
- Understand the controls and technology in the car
- At the end, look outside the car – what will affect today's drive?





# Structure



- Handbrake on, doors closed
- Identify vehicle, gearbox and state you are familiar with the controls
- Top-down checks: Mirrors, seating position set for you
- Static brake test
- Switch on the ignition and note the warning lights
- Depress the clutch, press the brake and load the steering wheel (power steering check) then start the engine
- When the engine is started, note the warning lights go out
- Check seatbelts
- Look out – factors which will affect drive
- Moving brake test when safe.

# What's wrong here?





# The cockpit drill





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# Smooth progressive braking



[https://www.youtube.com/watch?v=aDf\\_2DRjTNA](https://www.youtube.com/watch?v=aDf_2DRjTNA)

# Brake checks



## Static brake check

- Engine off
- Press/pump the brake pedal to feel pressure build up/resistance
- As you start the engine, keep the brake pressed down to feel the operation of the servo.

## Moving brake check

- At 20-30mph
- Apply brakes progressively – light at first then firm to reduce speed around 10mph
- The vehicle should stop evenly and as expected
- If the situation doesn't allow, apply the brakes as soon as possible after you set off.

# Human Factors

## ADC Handbook pg. 8

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# What do you need to achieve?



## **Human Factors & Concentration**

Has the associate demonstrated mastery of their emotions in order to provide a safe and controlled drive/ride? Are they able to describe the various factors affecting themselves, their drive and other road users? Do they maintain concentration throughout the test?

## **Courtesy**

Does the associate use courtesy in the way they approach hazards (thanking other road users, giving way when appropriate etc.). Do they consider their effects on others (such as when overtaking or approaching puddles near the kerbside).

## **Vehicle Sympathy & Eco Driving**

Does the associate take opportunities to rest the engine in higher gears when appropriate for both vehicle sympathy and fuel efficiency?

## **Smoothness**

Can the associate operate all controls in a smooth and accomplished manner without undue effort and without the vehicle being adversely unbalanced?



## You

- 
- The most important part!
  - Safety first
  - Control emotions
  - Sustain concentration –  
Manage distractions
  - Strive to improve.

## Your vehicle

- Carry out regular POWDERY checks
- Understand all the controls and technology
- Understand the performance and balance
- Think about differences in a new vehicle.

## Your Journey

- The purpose – this impacts on your decision making
- Plan your route
- Leave plenty of time.

## Wider World

- Expect the unexpected!
- What outside factors will impact how you drive?
- Make Observation Links
- OAP
- Understand your attitude to risk.

# **IPSGA – System of car control**

**ADC Handbook pg. 13/21**

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# What do you need to achieve?



## **System**

Does the associate grasp the phases of the system and can they apply the system correctly to each hazard?

## **Planning & Hazard Management**

Does the associate plan to deal with the hazards identified? Do they appropriately manage the risk associated with each hazard? (by change of speed, positioning, use of horn etc.)

## **Positioning**

Positions the vehicle safely and appropriately.

## **Braking**

Can the associate use three stage (progressive) braking smoothly? Does the associate avoid comfort braking, braking in a decisive and planned way. Do they understand how to perform and the benefits of a running brake check?

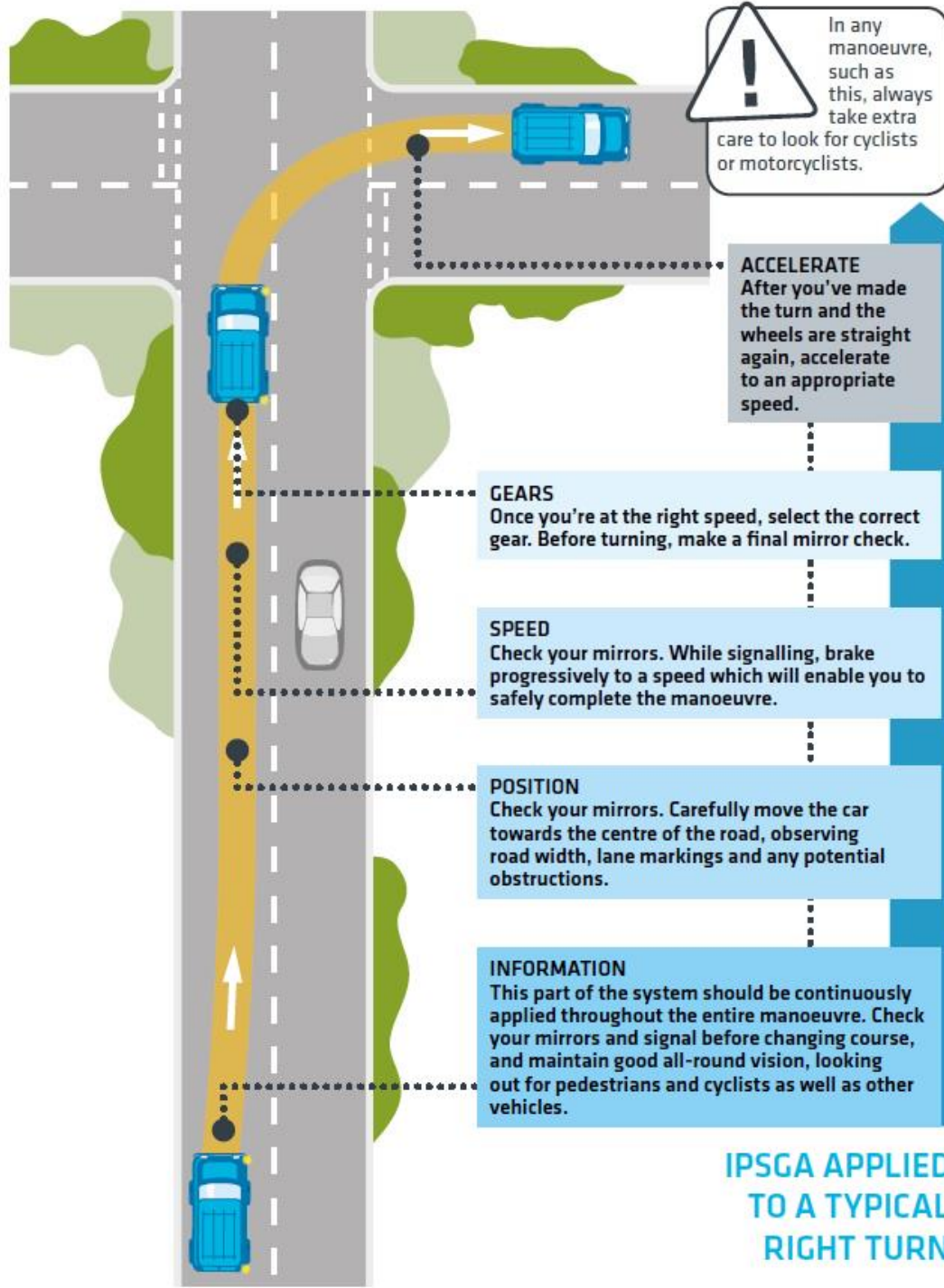
## **Gear Changing**

Does the associate select the correct gear at all times without any difficulty? Is the clutch control matched with the gear selection on a manual gearbox? On automatic gearboxes does the associate understand the various drive modes available? Do they understand when and how to select a manual hold gear?

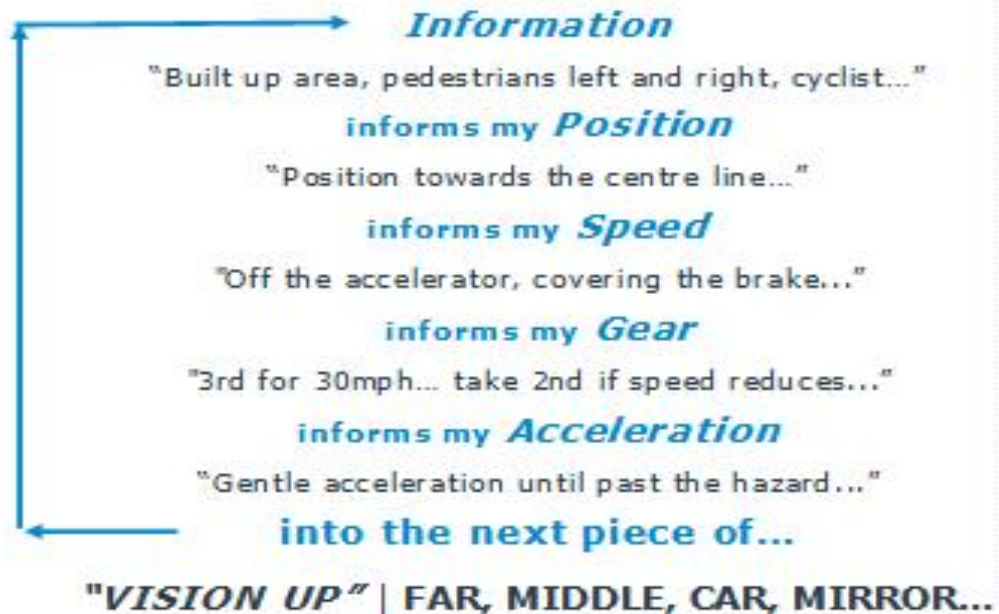
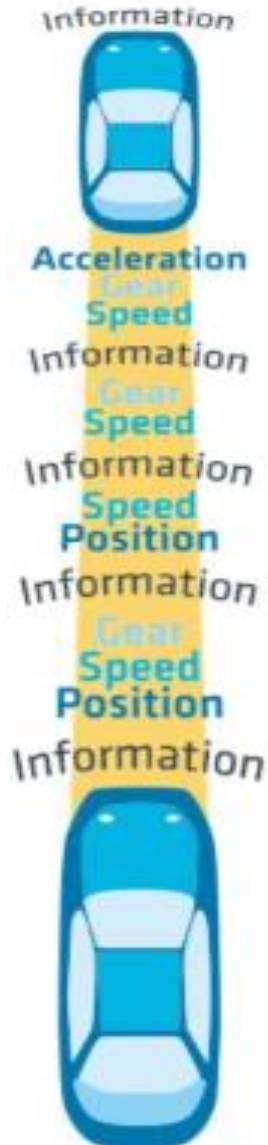
## **Use of Gearbox**

Does the associate select the correct gear at the correct time within the phases of IPSCA?





# A system for safe driving



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# A system for safe driving



[https://www.youtube.com/watch?v=aDf\\_2DRjTNA](https://www.youtube.com/watch?v=aDf_2DRjTNA)



# How would you use IPSGA here?





# How would you use IPSGA here?



**Hear from Elliot...**





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# Next steps!

- Start with a cockpit drill
- IPSGA / TUG / OAP
- Stop in the distance you can see
- Spoken thoughts – nobody there to hear you!
- Self analyse honestly
- Review your handbook regularly
- Review the 'Competency' checklists
- Re-cap your Run Sheets and Observer feedback.

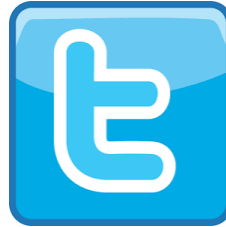


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# Keeping in touch...



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# Thanks for your participation

*Questions?*

