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# Light Vehicle Safety Technology, a step forward or a step back?









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#### **Introduction – Vehicle Technology**

- The Motor Car has changed significantly in the last 20 years
- In 1987 a left hand mirror was an optional extra
- In 1994 Air Conditioning was an optional extra
- In 2015 the cars have more safety features than ever before.
- Is the workplace now safer?
- Is it still necessary to train drivers?
- Are there any pitfalls.



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#### What does all of this mean?

- ABS Brakes
- Hill Launch Assist
- Dynamic Stability Control
- Active Cornering Enhancement
  - Traction Control
  - Roll Stability Control
    - Trailer anti sway
  - Hill Descent Control
  - Adaptive Cruise Control
    - Active Lane control
      - •Rear Diff Lock
      - Central Diff Lock
  - •and the list goes on......





# Warning Lights & Vehicle Instruments





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#### The issues of modern technology

- We are looking to disconnect the ABS?
- Would it be ok to do this?
- We have had cars that don't stop on site?
- OR
- •We disconnected the ABS and now nothing else works in the car?
- •Modern safety aids can cause situations that can result in an incident if the driver is not Educated and informed on how it works and how to use it.



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#### The issues of Modern technology

- The education and training of drivers has changed.
- •In the late 80s the teaching was based around driving and braking techniques
- •Then with the introduction of ABS we developed and ABS braking component to the training
- •Then Dynamic Stability Control was introduced which added another element of education and training.
- Each additional introduction of technology leads to a change in training methodologies.



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## **ABS Braking System**





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## **Dynamic Stability Control - Off**





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## **Dynamic Stability Control - On**



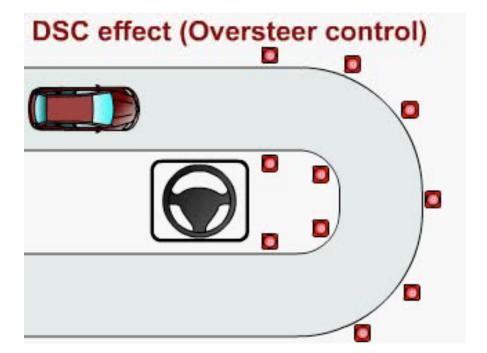


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# Will dynamic stability prevent rollovers

- In some instances yes
- In many others no (why is this the case)





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What does traction Control do





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#### What are the options to traction control





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What are the pitfalls of traction control





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