

Unit Standard **5742**

Protecting electronics when servicing or repairing a vehicle

Level 3 Credit 2 v5

Student Name:

School:

Date:

Marked By: _____ **Mark** _____ **%**

Feedback: **Excellent work**

Good work

Please attempt all questions

Please resubmit

USEFUL WEBLINKS

ECUs

<http://youtu.be/6yq0yRQGeH4>

Engine Management

<http://youtu.be/k5hRI91mFbs>

Anti-Collision Devices

<http://youtu.be/fKf8m-SEUdo>

<http://youtu.be/MfOgwrhJG8A>

<http://youtu.be/tVkVz79fgnY>

Immobilisation systems

<http://youtu.be/n1BxI4xdaSs>

Cruise Control

<http://youtu.be/wPIV2-OQqwg>

Electrical Flow/Wiring

<http://youtu.be/hAjM9Gk63M4>

Memory Saver

<http://youtu.be/9HREVVZAqNI>

Jump Starting

<http://youtu.be/ItHN0y1Nu7A>

Working with Batteries

<http://youtu.be/1ThScytBNwI>

6. Complete the following sentences

_____ systems use a specially _____ ignition key. With
each _____ key containing a permanently installed _____ device
called a _____. The transponder contains a _____ electronic
identification _____.

7. List four types of anti-collision devices that may be fitted to vehicles.

8. List two emission control systems used in a vehicle to reduce pollution.

14. List three ways to protect vehicle electronics when welding.
15. Complete the following sentences:
 Costs associated to a damaged _____ resulting from incorrect _____
 during a service operation will have to be _____ by the _____.
 Clearly this will _____ on the technician's _____ and
 may even _____ long term _____ security.
16. List six main causes of damage to ECU's.
17. How can a technician reduce the generation of static electricity when handling ECU components?
18. What is likely to happen to an ECU if it is exposed to excessive current?

19. Complete the following sentence:

When _____ ECU's it is very _____ to
actions that may cause the ECU to _____ which will damage the
printed _____ board.

20. List three ways to protect vehicle electronics when jump starting.