**Digital Radio Installers**

The following paper provides installer individuals and installation organisations with guidance on what they need to do in order to be granted use of the tick mark.

**Installer individuals**

The following table details the criteria that an installer individual is required to meet in order to be granted use of the mark.

Please note: you must train, test and accredit yourself at an ATA Centre in order to be granted use of the tick mark. This is a requirement. If you would like to become an ATA Centre please email tickmark@digitalradiouk.com.

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| --- | --- | --- |
| Radio Installation Technician (RIT) |  | Could be demonstrated during: |
|  |  |  | Practical Assessment | Theory Assessment  |
| MET – Trim |  | Correct tools to remove and refit trim | P | T |
|  |  | Care of removal/replacement of trim | P |  |
|  |  | Storage of components | P |  |
|  |  | Knowledge and understanding of SRS  |  | T |
| Electrical Knowledge |  | Knowledge and understanding of Ohms law |  | T |
|  |  | Volts - amps - ohms - watts - measuring | P | T |
|  |  | Circuit protection | P | T |
|  |  | Wiring/circuit diagrams | P | T |
|  |  | Knowledge and understanding of transistors |  | T |
|  |  | Knowledge and understanding of resistors |  | T |
|  |  | Knowledge and understanding of relays |  | T |
|  |  | Knowledge and understanding of solenoids |  | T |
|  |  | Knowledge and understanding of diodes |  | T |
|  |  | Interconnection - termination insulation harness | P | T |
|  |  | Knowledge and understanding of RF termination / insulation |  | T |
|  |  | Knowledge and understanding of the routing of cables within a vehicle |  | T |
|  |  | Earthing / power supplies | P | T |
|  |  | Knowledge and understanding of mulitiplexing including CAN/MOST/LIN/fibre optic |  | T |
|  |  | Test equipment - application and usage |  | T |
| Presentation (communications and planning) | Working with others |  | T |
|  |  | Confirming specifications - customer requirements / work place | P | T |
|  |  | Explanation to the customer of the variation in performance of products available | ? | ? |
|  |  | Communication with customer | P | T |
|  |  | Legal requirements awareness | P | T |
|  |  | Access - following fitting instructions | P | T |
|  |  | Work to timescales - keep others informed of progress | P | T |
| H & S |  | Risk assessment | P |  |
|  |  | Method statement | P | T |
|  |  | Personal health and safety and PPE | P | T |
|  |  | Use of power tools - mechanical / electrical  | P | T |
|  |  | High voltage - hybrid/electric vehicles |  | T |
|  |  | Fire precautions | P | T |
| Vehicle Preparation |  | Pre and post installation documents signed by candidate | P |  |
|  |  | Vehicle protection external/interior | P |  |
| Testing Procedures |  | Testing the fitment of DAB installation | P |  |
|  |  | Testing to identify the system meets the manufacturers specification | P | T |
|  |  | Set system installation functions | P |  |
|  |  | Restoration of vehicle system(s) post installation | P |  |
| Audio DAB Replacement Head Unit | Location of components | P |  |
|  |  | Installing of components - upgrade to DAB | P |  |
|  |  | Running of cables | P | T |
|  |  | Interface with vehicle’s own wiring  | P |  |
|  |  | Modification to dash location | P | T |
|  |  | Modification of vehicle wiring  | P | T |
|  |  | Fitment to documented instructions / specifications | P |  |
|  |  | ID of wiring connections | P | T |
|  |  | Test replacement head unit for all major function(s) | P |  |
|  |  | Test replacement head unit performance | P | T |
| Audio DAB Adaptor unit | Location of components | P |  |
|  |  | Installing of components - upgrade to DAB | P |  |
|  |  | Running of cables | P | T |
|  |  | Interface with vehicle own wiring  | P |  |
|  |  | Fitment to documented instructions | P |  |
|  |  | ID of wiring connections | P | T |
|  |  | Test DAB adapter unit for all major function(s) | P |  |
|  |  | Test adaptor unit performance | P | T |
| Antenna Installation |  | Antenna installation - plan | P |  |
|  |  | Antenna installation - fitment of antenna WITHOUT drilling body |  | T |
|  |  | Antenna installation - fitment of antenna by drilling vehicle body to accept antenna |  | T |
|  |  | Carryout vehicle anti-corrosion procedures |  | T |
|  |  | Location of components | P |  |
|  |  | Installing of components  | P |  |
|  |  | Fitment to documented instructions | P |  |
|  |  | Running of cables - electrical/coaxial | P |  |
|  |  | ID of wiring connections | P | T |
|  |  | Test system performance of overall installation | P |  |

**Installation organisations**

If groups would like to become a Digital Radio Registered Installation organisation, applicants must meet further criteria: Installation organisations seeking to be granted use of the tick mark need to meet the following business criteria:

* Employ at least one installer who holds the ATA DAB RIT accreditation and will be responsible for installing digital receivers and adaptors as well as overseeing the work of unqualified installers. (The ratio of qualified to unqualified persons engaged in the installation of digital receivers should not be more than 1:4.)
	+ Note: even if it could comply with all of conditions b) – f), an installation business would be unable to apply to use the Mark until it met this condition.

b) have a business address even if fitting is carried out by a mobile unit

c) have appropriate insurances, including mandatory Public Liability Insurance and mandatory Service Indemnity Insurance (or ‘Defective Workmanship insurance’), each with a minimum cover of £5.0m, and offer proof of insurance if requested

d) have and display a health and safety policy in accordance with the current health and safety legislation

e) have a documented customer care policy, including after sales service and assistance

f) maintain customer records sufficient to provide an audit trail in the event of a complaint.