
**AUTOMOTIVE ELECTRICAL AND
ELECTRONICS**
**Demonstrate knowledge of in-vehicle
information and control systems**

level:	5
credit:	6
final date for comment:	December 2008
expiry date:	December 2009
sub-field:	Motor Industry
purpose:	People credited with this unit standard are able to demonstrate knowledge of in-vehicle information and control systems.
entry information:	Open.
accreditation option:	Evaluation of documentation and visit by NZQA and industry.
moderation option:	A centrally established and directed national moderation system has been set up by the NZ Motor Industry Training Organisation.
special notes:	None.

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Elements and Performance Criteria

element 1

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performance criteria

- 1.1 Analysis identifies the range of in-vehicle telecommunications and interface equipment in accordance with the manufacturers' specifications.
- Range: includes but is not limited to – navigation system, telephone, PDAs (personal digital assistants), internet, speech recognition, audiovisual devices, entertainment systems, mobile office systems, driver information and assistance, collision avoidance warning, fleet management.
- 1.2 Analysis identifies the contribution in-vehicle information systems have made to vehicle and passenger safety.
- Range: may include but is not limited to – assisting driver through audio and visual messages, navigation, monitoring of vehicle functions, promoting safe driving habits through speed and tracking reports, reducing road fatalities and injuries.
- 1.3 Purpose and features of fleet management in-vehicle systems are described according to the manufacturers' specifications.
- Range: purpose and features include but are not limited to – automatic vehicle location, vehicle systems monitoring, computer aided routing and road transport freight management, mobile communications, driver management.
- 1.4 Description identifies primary mobile communications technologies according to the manufacturers' specifications.
- Range: includes but is not limited to – GPS (Global Positioning System), internet, mobile radio, cellular telephone, fax, pager.

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1.5 Analysis examines features of vehicle tracking systems and GPS navigation devices according to the manufacturers' specifications.

Range: includes but is not limited to – passive, real time; dispatching, routing, vehicle recovery, customer service.

Comments on this unit standard

Please contact the NZ Motor Industry Training Organisation jlane@mito.org.nz if you wish to suggest changes to the content of this unit standard.

Please Note

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0014 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.