
VEHICLE SPRAYPAINTING
Touch up the paintwork on a vehicle
using three layer pearl finishes

level:	4
credit:	7
final date for comment:	December 2008
expiry date:	December 2009
sub-field:	Motor Industry
purpose:	This unit standard is for people who work in the automotive refinishing industry. People credited with this unit standard are able to: demonstrate knowledge of touching up pearl finishes; check the preparation; and prepare and apply top coats.
entry information:	Recommended: Unit 5708, <i>Identify and use primers, fillers, and sealers and prepare for top coats in the motor industry</i> , or demonstrate equivalent knowledge and skills.
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:	<ol style="list-style-type: none">1 The following legislation and regulations must be consulted and followed where applicable: Hazardous Substances and New Organisms Act 1996; Health and Safety in Employment Act 1992; Spray Coating Regulations 1962; Approved Code of Practice for the Safe Use of Isocyanates, 1994 (OSH, Department of Labour).2 When the performance criteria state <i>acceptable industry standard</i>, it is assumed that the standard complies with the product and vehicle manufacturers' standards.

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- 3 For this unit standard it is essential that assessment be carried out in a commercial workplace under normal working conditions.

Elements and Performance Criteria

element 1

Demonstrate knowledge of touching up pearl finishes.

performance criteria

- 1.1 Pearl finishes are identified according to the paint and the vehicle manufacturers' specifications.
- Range: groundcoat, pearlcoat, clearcoat, tinted clearcoat.
- 1.2 Principles of touching up pearl finishes are identified.
- Range: new panels, repaired panels;
preparation, matching techniques, application and blending out techniques.
- 1.3 Importance of carrying out the safety precautions for using two-pack paints according to the paint manufacturers' specifications, and with legislation is identified.

element 2

Check the preparation.

performance criteria

- 2.1 Surface is checked for defects according to the paint manufacturer's specifications, and acceptable industry standard.
- Range: checks include but are not limited to – sanding defects, repair defects, no missed sanding.

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- 2.2 Masking is secure and smooth according to acceptable industry standard.
- Range: may include but is not limited to – no loose masking, remasking as necessary, all edges secure.
- 2.3 Surface is clean according to the paint manufacturer's specifications.
- Range: may include but is not limited to – solvent wash, blow off dust, tack off dust.

element 3

Prepare and apply top coats.

Range: groundcoat, pearlcoat, clearcoat.

performance criteria

- 3.1 Tools and equipment are identified, and used according to the manufacturers' recommendations, legislation, and acceptable industry standard.
- Range: may include but is not limited to – spray gun, spray booth; air-fed respirator; gloves, dust-free overalls, head covering, measuring stick and paint container.
- 3.2 Safe working practices are carried out throughout the task.
- Range: personal safety; safety of other people; vehicle safety; workshop safety; environmental safety; tool, equipment, and machine safety; solvent, isocyanate and paint inhalation and absorption; spray booth.
- 3.3 Colour is identified, and the paint is prepared and matched according to the paint manufacturers' specifications.
- Range: may include but is not limited to – reducing and mixing ratios, colour mixing and matching, paint mixed to formula, eye match, let-down panel; straining, measuring stick and paint container.

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- 3.4 Techniques used to apply the paint are identified and used, and there is no difference in colour between the applied paint and adjacent panels.
- Range: may include but is not limited to – spray gun set-up and adjustment, air pressure, application technique; blending, groundcoat, pearlcoat, flash-off.
- 3.5 Clearcoat is applied according to the paint manufacturers' specifications.
- Range: may include but is not limited to – spray gun set-up and adjustment, air pressure, application technique, flash-off.
- 3.6 Paint is dried according to the paint manufacturers' specifications.
- Range: may include but is not limited to – force dried, chemical reaction.
- 3.7 The surface is checked and minor defects are rectified.
- Range: may include but is not limited to – surface is free of dirt, runs, dry spray, orange peel, sink back.
- 3.8 Tools and equipment are clean and put away, and the work area is clean.
- 3.9 Materials are stored according to the manufacturers' specifications, and legislation requirements.
- 3.10 Work is completed to an acceptable industry standard.

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.

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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>.