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| Title | Identify and use fastening systems in the motor industry | | |
| Level | 2 | Credits | 4 |

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| Purpose | This unit standard is for people who are at pre-employment level or who have recently started work in the motor industry. People credited with this unit standard are able to: demonstrate knowledge of fastening systems used in the motor industry; use metal fastening systems; use pop rivets; identify and use plastic and metal fastening systems; and identify and use adhesives. |
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| Classification | Motor Industry > Vehicle Bodywork |
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| Available grade | Achieved |
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Guidance Information

- The following legislation (and subsequent amendments) is applicable to this unit standard and must be followed where applicable:
Health and Safety in Employment Act 1992.
- Company policy includes workplace standards, practices, and procedures, which must comply with current legislation requirements. It is assumed the policy also meets product manufacturers' specifications, recommendations, and standards.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of fastening systems used in the motor industry.

Performance criteria

- Purpose of fastening systems is identified.

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| Range | metal parts, trim materials, rubber and plastic. |
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- Principle of how fastening systems work is identified.

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| Range | bolts, nuts, studs, plastic and metal body clips, adhesives, rivets, screws, double sided tape. |
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1.3 Thread types are identified according to manufacturer's specifications and company policy.

Range metric, united national fine (UNF), united national coarse (UNC).

1.4 Manufacturer's instructions are identified to establish manufacturer's specifications for use.

Outcome 2

Use metal fastening systems.

Range bolts, nuts, studs, washers, screws, clips.

Performance criteria

2.1 Tools are selected to enable assembly and fastening of components to be carried out, and used according to manufacturer's specifications.

Range may include but is not limited to – spanners, sockets, screw drivers.

2.2 Locking devices are selected to enable the components to be secured, and used according to manufacturer's specifications.

Range locking washers, clips, chemical, lock nuts.

2.3 Fastener is secured according to the manufacturer's specifications and company policy.

2.4 Safe working practices are carried out throughout the task.

Range personal safety, safety to others, tools and equipment safety.

Outcome 3

Use pop rivets.

Performance criteria

3.1 Tools are selected to enable assembly and fastening to be carried out, and used according to manufacturer's specifications.

Range rivet gun, drill.

3.2 Rivet size is identified and hole is drilled according to specifications.

3.3 Rivet is selected and used so the materials joined are secure.

3.4 Safe working practices are carried out throughout the task.

Range personal safety, safety to others, tools and equipment safety.

Outcome 4

Identify and use plastic and metal fastening systems.

Range trim clips, moulding clips.

Performance criteria

4.1 Fastening systems and methods of attachment are identified according to the maker's specifications and company policy.

4.2 Tools are selected to enable assembly and fastening to be carried out, and used according to manufacturer's specifications.

Range screwdrivers, spanners, and tools specified by the manufacturer.

4.3 Fastening system is used so that the materials are secured according to manufacturer's specifications.

4.4 Safe working practices are carried out throughout the task.

Range personal safety, safety to others, tools, machine and equipment safety.

Outcome 5

Identify and use adhesives.

Performance criteria

5.1 Adhesive types are identified so that the materials are attached according to the manufacturer's specifications.

Range adhesive compounds, double sided tape.

5.2 Tools and equipment are selected to enable the job to be carried out, and used according to specification and company policy.

Range may include but is not limited to – adhesive gun, clamps, cleaning solvents.

5.3 Pre-treatment of surfaces is carried out according to manufacturer's specifications and company policy.

Range cleaning, priming.

5.4 Adhesive is applied and the materials are secure according to the manufacturer's specifications.

5.5 Safe working practices are carried out throughout the task.

Range personal safety, safety to others, tools, machine and equipment safety.

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| Replacement information | This unit standard was replaced by unit standard 21714 and unit standard 21715. |
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|------------------|--------------------------|
| Registration | 1 | 18 June 1995 | 31 December 2016 |
| Revision | 2 | 30 October 1997 | 31 December 2016 |
| Revision | 3 | 28 May 1998 | 31 December 2016 |
| Review | 4 | 10 February 1999 | 31 December 2016 |
| Revision | 5 | 13 March 2001 | 31 December 2016 |
| Rollover | 6 | 25 July 2006 | 31 December 2020 |
| Rollover | 7 | 19 November 2010 | 31 December 2020 |
| Rollover | 8 | 22 August 2014 | 31 December 2020 |
| Rollover | 9 | 22 October 2020 | 31 December 2021 |

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| Consent and Moderation Requirements (CMR) reference | 0014 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.