Title	**Demonstrate and apply knowledge of software tools as used in electrotechnology industry applications**		
Level	**3**	**Credits**	**5**

Purpose	This unit standard covers knowledge and application of software tools to provide solutions in the electrotechnology engineering industry. People credited with this unit standard are able to: - describe the capabilities and limitations of software packages in the context of electrotechnology applications; and - apply software packages in electrotechnology applications.

Classification	Electrical Engineering > Electrotechnology

Available grade	Achieved

Guidance Information

1 This unit standard is intended for use in engineering courses at diploma level with assessment primarily against laboratory assignments.

2 Reference
Health and Safety at Work Act 2015;
and all subsequent amendments and replacements.

3 Definition
Industry practice – practice used and recommended by organisations involved in the electrotechnology industry.

4 All measurements are to be expressed in Système International (SI) units, and, where required, converted from Imperial units into SI units.

5 All activities must comply with: any policies, procedures, and requirements of the organisations involved; the standards of relevant professional bodies; and any relevant legislative and/or regulatory requirements.

6 Range
a performance in relation to the outcomes of this unit standard must comply with the Health and Safety at Work Act 2015;
b laboratory and workshop safety practices are to be observed at all times.

Outcomes and performance criteria

Outcome 1

Describe the capabilities and limitations of software packages in the context of electrotechnology applications.

Range software packages may include but are not limited to – drawing and fabrication, scientific simulation, program development;
evidence of three is required.

Performance criteria

1.1 The main features, purpose, capabilities, and limitations of the selected software packages are described in accordance with industry practice.

Outcome 2

Apply software packages in electrotechnology applications.

Range software packages from outcome 1.

Performance criteria

2.1 The capabilities of the selected software package are appropriate for the application requirements.

2.2 Valid and logical use of the software package is demonstrated in accordance with the application requirements and industry practice.

2.3 The application results reflect valid use of the software package capabilities.

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	27 April 2000	31 December 2013
Revision	2	3 April 2001	31 December 2013
Review	3	18 December 2006	31 December 2024
Rollover and Revision	4	15 March 2012	31 December 2024
Revision	5	15 January 2014	31 December 2024
Rollover and Revision	6	25 March 2021	31 December 2024
Review	7	2 March 2023	31 December 2024

Consent and Moderation Requirements (CMR) reference	0003

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.