

### Re-issue of Amended Lighting Equipment LVV Standard

#### Introduction:

This Information Sheet has been provided to summarise a number of changes made to LVV Standard 125-00 (Lighting Equipment) which has recently undergone an amendment process.

An overview is provided below of the changes to the standard. You will note that the standard has been updated in terms of formatting and standardised headings and sub-headings, so as to be consistent with the current look and content of the existing standards.

#### Standardised changes to align with the other LVV Standards:

A number of changes have been made which brings the Lighting Equipment Standard into line with all of the other LVV Standards, which are explained as follows.

##### Amendment record table

A table has been provided on the cover page to record the amendment dates and version numbers that have been applied to the standard. This is for the purpose of maintaining clear records of the amendment history of the standard. One of the ways in which this could be helpful to LVV Certifiers and the public is to show which version of a standard was in force at the time that a vehicle was modified; - because the requirements change from version to version, the requirements that apply to a vehicle may vary dependent on modification date.

##### Associated information table

On page 2 of the standard, a table is provided which identifies any associated reference material that should be read in conjunction with the standard. This is in the interests of ensuring that users of this standard are aware of, and have access to, any other information that may be useful in gaining a full understanding of the subject matter relating to the standard, and how it might apply to their project.

##### Tracking of amendments

LVV Certifiers in particular should note that all changes that have been made to each standard during the amendment process have been highlighted (this will show up as grey shade in the hard copies mailed to LVV Certifiers as part of their LVV Certification Manual updates, and they will show as yellow highlight when viewed on-line).

You will notice that some amendments have a grey vertical stroke in the adjacent left-side margin, and that some amendments do not have this grey stroke. The difference is this; - those amendments which are more of a minor correction or formatting nature will not have the grey stroke, whereas those amendments which are of a technical or reference nature, or are considered important for LVV Certifiers to be aware of will have the grey vertical stroke.

These more minor amendments (without the grey vertical stroke) will have no fundamental impact on the LVV Certifiers' inspection and assessment processes.

### Scope and application section:

The standard has been amended to bring the arrangement of the scope and application section into line with current thinking on how this should be presented.

### General Safety Requirement note-box:

An addition is made at the end of the note-box after 2.1(1) (General Safety Requirements) to reinforce that the LVV Code specifies that every vehicle certified to the Code must be fit for its purpose and safe, regardless of what technical requirements are in place.

### Vehicles not covered by this standard:

Sub-section 4.1 'vehicles not covered by this standard' details that vehicles used for law enforcement or emergency services are not required to be certified to the Low Volume Vehicle Code.

### Vehicles that pre-date legal requirements:

Within sub-section 4.2 'vehicles that pre-date legal requirements', explanation is provided that the allowance for certification not being necessary is dependent on the modifications not having been further changed.

### Modifications that do not require certification:

Sub-section 4.3 'modifications that do not require certification' clarifies that lighting equipment changes and modifications do not, on their own, cause a vehicle to be LVV certified.

## **Specific changes to the Lighting Equipment Standard:**

A number of changes and updates have been made which are specific to this standard, and these are summarised below. Note that the very obvious and straight-forward changes are not summarised.

### Headlamps:

2.2(6): Refers to Table 1 ('Lamp Positioning Requirements'), replacing old paragraphs 2.2(6) and 2.2(7).

Table 1: Contains all of the headlamp width and height requirements in a simple 'at-a-glance' style table.

2.2(13): Refers to NZTA's headlamp adjustment requirements, simplifying the requirements in the Standard, as most LVV Certifiers rely on a recent WoF to confirm the headlamp adjustment is correct.

2.2(14): Refers to Table 2 ('Approved Standards for Lamps'), replacing old paragraph 2.2(17).

Table 2: To avoid the repetition which existed in the original version of the standard, we have created a single 'at-a-glance' style table which will enable an LVV Certifier or modifier/builder to find all of the lamp standard compliance information in one place. This is one of the features of the revised standard that has enabled us to reduce the new version of the standard down to 42 pages, from the previous 61 pages.

2.2(19): Note-box covers recent lighting technology developments.

### Stop-lamps:

2.3(6): Refers back to Table 1 ('Lamp Positioning Requirements') for stop-lamp width and height requirements.

2.3(14): Refers back to Table 2 ('Approved Standards for Lamps') for stop-lamp approved standards compliance requirements.

2.3(15): Refers back to Table 3 ('Other Lamp Sources') for compliance requirements for stop-lamps which do not meet an approved standard.

Table 3: This 'Other Lamp Sources' table provides another single 'at-a-glance' style table in order to avoid the repetition that existed in the original version of the standard. This is another feature which has reduced the size of the standard. All information relating to lamps which does not meet an approved standard is provided here, and this applies to all lamps, so that the repetition which existed throughout the original standard for each lamp section has been eliminated.

#### High-mounted stop-lamps:

2.4(9): Refers back to Table 2 ('Approved Standards for Lamps') for high-mounted stop-lamp approved standards compliance requirements.

#### Direction-indicator lamps:

2.5(8): Refers back to Table 1 ('Lamp Positioning Requirements') for direction-indicator lamp width and height requirements.

2.5(18): Refers back to Table 2 ('Approved Standards for Lamps') for direction-indicator lamp approved standards compliance requirements.

2.5(19): Refers back to Table 3 ('Other Lamp Sources') for compliance requirements for direction-indicator lamps which do not meet an approved standard.

#### Front position (park) lamps:

2.6: Changed name of lamps from 'forward-facing position lamps' to 'front position lamps', to align with current wording used by the NZ Transport Agency.

2.6(5): Refers back to Table 1 ('Lamp Positioning Requirements') for front position lamp width and height requirements.

2.6(13): Refers back to Table 2 ('Approved Standards for Lamps') for front position lamp approved standards compliance requirements.

2.6(14): Refers back to Table 3 ('Other Lamp Sources') for compliance requirements for front position lamps which do not meet an approved standard.

#### Rear position (tail) lamps:

2.7: Changed name of lamps from 'rearward-facing position lamps' to 'rear position lamps', to align with current wording used by the NZ Transport Agency.

2.7(5): Refers back to Table 1 ('Lamp Positioning Requirements') for rear position lamp width and height requirements.

2.7(12): Refers back to Table 2 ('Approved Standards for Lamps') for rear position lamp approved standards compliance requirements.

2.7(13): Refers back to Table 3 ('Other Lamp Sources') for compliance requirements for rear position lamps which do not meet an approved standard.

#### Rear registration-plate illumination-lamps:

2.8(8): Refers back to Table 2 ('Approved Standards for Lamps') for rear registration-plate illumination-lamp approved standards compliance requirements.

2.8(9): Refers back to Table 3 ('Other Lamp Sources') for compliance requirements for rear registration-plate illumination-lamps which do not meet an approved standard.

#### Retroreflectors:

2.9(6): Refers back to Table 1 ('Lamp Positioning Requirements') for retroreflector width and height requirements.

2.9(10): Refers back to Table 2 ('Approved Standards for Lamps') for retroreflector approved standards compliance requirements.

2.9(11): Refers back to Table 3 ('Other Lamp Sources') for compliance requirements for retroreflectors which do not meet an approved standard.

#### **Finally:**

The amended and updated content of the standard will be explained during the next LVV Certifier training sessions held throughout the country later in 2020.

In the meantime, if you require any explanation or clarification on the changes within the standards, please contact an LVVTA Technical Team member at the LVVTA office (04) 238-4343.