

LVVTA - Limitations of LVV Certifier categories

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Introduction

The vehicle modification and construction industry is both diverse and complex, so much so that very few, if any, people have the background, knowledge, and skills, to be able to competently LVV certify every type of modification and construction feature that exists.

LVVTA has, therefore, established a range of LVV Certifier categories, that enable an individual LVV Certifier's particular areas of background, knowledge, and skills to be matched to certain LVV certification activities, in order to ensure that each LVV Certifier is involved only in those particular areas in which he has the necessary level of competence.

Sub-section 3.1 provides the available LVV certification categories for which an LVV Certifier may be authorised, together with the operational boundaries of each of those categories.

Category *LV1A Modified Production – Limited*

- (a) all engine and drive-train conversions and modifications covered by *LVV Standard 85-40 (Engine & Drive-train Conversions)*; but no structural modifications to the chassis, sub-frame or suspension cross-members, and the engine must be in the original location; and
- (b) all braking modifications covered by *LVV Standard 35-00 (Braking Systems)*, including rotor and drum changes, disc and drum adaptations; but no changes, substitutions, or modifications to OE stub axles, with the exception of:
 - (i) common 'bolt-on' OEM-type 4-stud to 5 stud stub axle conversions; and
 - (ii) 'bolt-on' aftermarket (dropped spindle-type) stub axle conversions;and
- (c) 'bolt-on' OEM steering components or OEM steering system substitution, including bolt-on OEM manual or power steering conversions, but no changes, substitutions, or repositioning of any geometry-critical steering components, and no modifications to any individual steering components or mounting systems, with the exception of:
 - (i) 'bolt-on' roll-centre adjusters; and
 - (ii) 'bolt-on' aftermarket (dropped spindle-type) stub axle conversions;

- (iii) 'bolt-on' HICAS lock-bars (specifically limited to Nissan HICAS system only);
- (iv) modifications directly associated with a body-lift, limited to the adjustment of the positioning of the splined section of the OEM steering intermediate shaft, or a 'bolt-on' aftermarket component (which does not incorporate welding and that is catalogued for the make and model of vehicle) which lengthens the OEM steering intermediate shaft; and
- (v) right-hand drive conversions of pre-1980 vehicles, where the conversion is of a direct mirror-image nature, and where the vehicle manufacturer made provision during the manufacturing process for the vehicle to be assembled in either left-hand or right-hand drive form;

and

- (d) all suspension modifications covered by LVV Standard 195-00 (Suspension Systems), but no structural modifications to the chassis, sub-frame or suspension cross-members, no complete suspension assembly change, no change to suspension configuration or geometry, and no airbag or hydraulic suspension system conversions, with the exception of:

- (i) 'bolt-on' roll-centre adjusters; and
- (ii) 'bolt-on' aftermarket loaded suspension arms;
- (iii) repositioning of a non-load bearing shock absorber; and
- (iv) 'bolt-on' aftermarket (dropped spindle-type) stub axle conversions;

and

- (e) all wheel and tyre changes and modifications; and
- (f) seat changes covered by 2.5 in LVV Standard 185-00 (Seats & Seat Anchorages), but no seatbelt anchorage retro-fittings, and no stressed seat changes or installations; and
- (g) all interior modifications covered by LVV Standard 155-40 (Interior Impact); and
- (h) all external projection and field of vision; and
- (i) all lighting modifications and substitutions; and
- (j) all glazing, and windscreen wipe and wash system modifications and substitutions; and
- (k) all fuel system modifications and custom-built fuel systems, and substitution of non-OE fuel tanks and systems; and

- (l) a body-lift of up to 50 mm on a four-wheel drive vehicle (including associated steering modifications limited to those specified in 3.1(2)(c)(iv)); and
- (m) all non-structural body modifications including substituted or modified door opening systems, fuel filling systems, and intercooler installations.

Category LV1B Modified Production – Extended

An LVV Certifier appointed to certify under LVV Certifier category ‘LV1B Modified Production - Extended’ is authorised to certify Classes M-group and NA modified production low volume vehicles that feature:

- (a) all seatbelt anchorage installations covered by *LVV Standard 175-00 (Seatbelt Anchorages)*; and
- (b) all seat design, construction, and installations, including stressed seats, covered by *LVV Standard 185-00 (Seats & Seat Anchorages)*; and
- (c) all adaptive control systems to assist disabled drivers covered by *LVV Standard 45-30 (Disability Adaptive Control Systems)*; and
- (d) all frontal impact protection system modifications covered by *LVV Standard 155-30 (Frontal Impact)*.

Category LV1C Modified Production – Structures

An LVV Certifier appointed to certify under LVV Certifier category ‘LV1C Modified Production - Structures’ is authorised to certify Classes M-group and NA modified production low volume vehicles that feature:

- (a) all structural body modification, including restructuring and configuration changes, that retain the vehicle manufacturer’s occupant protection systems and structure forward of the A-pillars, and complete (bolt off-on OE-body type) body substitution; and
- (b) all chassis and sub-frame modifications, but not complete chassis substitution or complete chassis or rear half-chassis design and construction, or complete sub-frame changes.

Category LV1D Modified Production – Advanced & Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category ‘LV1D Modified Production - Structures’ is authorised to certify Classes M-group and NA scratch-built, and modified production M-group and NA low volume vehicles that feature:

- (a) design and construction of custom-built suspension systems, and substitution of major non-OE suspension components and complete non-OE suspension assemblies; and
- (b) design and construction of custom-built steering systems, and relocation or substitution of major non-OE steering components and complete non-OE steering assemblies; and
- (c) design and construction of custom-built braking systems, and substitution of major non-OE braking components and complete non-OE braking assemblies; and

- (d) repositioning of an engine, gearbox, or differential to a different location within a vehicle; and
- (e) all body restructuring, configuration changes, body type or style substitution, and complete body design and construction; and
- (f) major modifications and complete substitution of chassis or sub-frames, and complete chassis or rear half-chassis design and construction.

Category LVRH Modified Production – Right-hand Drive Conversions

An LVV Certifier appointed to certify under LVV Certifier category ‘LVRH Modified Production – Right-hand Drive Conversions’ is authorised to certify Classes M-group and NA modified production low volume vehicles that are modified production vehicles which have been converted from left-hand drive to right-hand drive, covered by *LVV Standard 190-70 (Right-hand Drive Steering Conversions)*.

Category LVEX – Exhaust Noise and Gas Emissions

An LVV Certifier appointed to certify under LVV Certifier category ‘LVEX – Exhaust Noise and Gas Emissions’ is authorised to certify Classes M-group, NA, and L-group vehicles for exhaust noise emissions and gas emissions covered by *LVV Standard 90-20 (Exhaust Noise Emissions)*, and *LVV Standard 90-10 (Exhaust Gas Emissions)*.

Category LV2A Motorcycles - Modified Production

An LVV Certifier appointed to certify under LVV Certifier category ‘LV2A Motorcycles - Modified Production’ is authorised to certify Class L-group modified production low volume vehicles that feature:

- (a) all hand and foot control system modifications and adaptations; and
- (b) all suspension modifications including substitution of OE and aftermarket suspension components and assemblies, but not custom fabricated front-ends or swing-arm assemblies; and
- (c) all steering modifications including substitution of OE and aftermarket steering components and assemblies, but not custom-fabricated components or complete steering head adaptation; and
- (d) all braking modifications including substitution of OE and aftermarket brake components and assemblies, but not custom-fabricated components; and
- (e) all engine and drive-train conversions and modifications; and
- (f) frame and body modifications, but not complete design and construction of new frames.

Category LV2B Motorcycles – Advanced and Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category ‘LV2B Motorcycles - Scratch-built’ is authorised to certify Class L-group scratch-built, and modified production low volume vehicles that feature:

- (a) design and construction of custom-built suspension systems, including complete custom-fabricated front-ends and swing-arm assemblies; and
- (b) design and construction of custom-built steering systems, including custom-fabricated steering components and steering head adaptations; and
- (c) design and construction of custom-built braking systems, including custom-fabricated braking components; and
- (d) all major frame and body modifications, complete substitution of frames and bodies, and complete frame and body design and construction.

Category LV2C Trikes - Modified Production & Scratch-built

An LVV Certifier appointed to certify under LVV Certifier category 'LV2C Trikes – Modified Production & Scratch-built' is authorised to certify low volume vehicles that:

- (a) are modified production LE or MA-class trikes, and are covered by *LVV Standard 198-00 (Trikes with Motorcycle Controls)*; or
- (b) are scratch-built LE or MA-class trikes, and are covered by *LVV Standard 198-00 (Trikes with Motorcycle Controls)*.

Category LV3A Disability Adaption - Limited

An LVV Certifier appointed to certify under LVV Certifier category 'LV3A Disability Adaptation' is authorised to certify Classes M-group and NA low volume vehicles that feature:

- (a) modifications carried out for the purpose of enabling a person with a disability to operate a braking system, accelerator system, steering system, or any other vehicle controls, provided that the integrity and rigidity of the permanent vehicle structure is not affected by the modifications; and
- (b) modifications carried out for the purpose of enabling a person with a disability, and a care-giver or attendant, to enter or exit a vehicle, or to be seated or restrained within a vehicle, provided that the integrity and rigidity of the permanent vehicle structure is not affected by the modifications.

Category LV3B Disability Adaptation – Structures

An LVV Certifier appointed to certify under LVV Certifier category 'LV3B Disability Adaptation - Structural' is authorised to certify Classes M-group and NA low volume vehicles that feature:

- (a) all modifications carried out for the purpose of enabling a person with a disability to operate a braking system, accelerator system, steering system, or any other vehicle controls, including those modifications that affect the integrity and rigidity of the permanent vehicle structure; and

- (b) all modifications carried out for the purpose of enabling a person with a disability, and a care-giver or attendant, to enter or exit a vehicle, or to be seated or restrained within a vehicle, including those modifications that affect the integrity and rigidity of the permanent vehicle structure.

Category LV4 - Electric Vehicles

An LVV Certifier appointed to certify under LVV Certifier category 'LV4 - Electric Vehicles' is authorised to certify modified production and scratch-built Classes M-group and NA low volume vehicles that are converted to, or constructed using, electric or hybrid motive power.

Category LVAC - Authority Card

An LVV Certifier appointed to certify under LVV Certifier category 'LVAC - Authority Card' is authorised to certify low volume vehicles in accordance with 2.12 of the LVV Code.

Category LVCM – Commercial Modification

An LVV Certifier appointed to certify under LVV Certifier category 'LVCM - Commercial Modification' is authorised to certify modified production Type-approved low volume vehicles in accordance with the limitations and conditions specified within their *Notice of Appointment* from the Agency.

Category LVPO - LVV Certification Plate Pre-ordering

An LVV Certifier appointed to certify under LVV Certifier category 'LVPO - LVV Certification Plate Pre-ordering' is authorised to pre-order LVV Certification Plates from LVVTA prior to the completion of the final inspection of the vehicle provided that the procedural requirements for LVV Certification Plate Pre-ordering specified in *Section 4* are met.

NOTE 1: An applicant applying to become appointed to certify Type-approved vehicles under LVV Certifier category 'LVCM - Commercial Modification', is not required to also hold Category LVPO – LVV Certification Plate Pre-ordering' specified in 3.1(16), because Plate Pre-ordering is an integral function of the Type-approval certification process carried out by LVCM-appointed LVV Certifiers.

NOTE 2: In the case of any previously LVV certified low volume vehicle that has been subsequently modified, the LVV Certifier undertaking the LVV certification of the subsequent modifications must be authorised for the LVV certification category that would have been required for the original certification of the vehicle.

For example, a scratch-built sports car (originally requiring Category 1D) with a subsequent suspension modification must be LVV certified by an LVV Certifier authorised for 1D category. This is because a comprehensive knowledge of the vehicle in question is required in order to be able to establish the flow-on influences of any subsequent modifications on inter-related aspects of the original vehicle's design.