

**Correct as at 28th June 2026. It may be superseded at any time.**

**Extract taken from:** PRS & QMS > PRS: Low volume vehicle certification > Technical part > 2B Motorcycles – scratch-built

## 6 2B Motorcycles – scratch-built

### Requirements

	What NZTA expects of you	How NZTA will assess your performance
	<b>Correct technical decisions</b>	
6.1	You thoroughly inspect all modifications and correctly determine if the modifications comply with all legal requirements, taking into account technical information provided by NZTA and the LVVTA such as Low Volume Vehicle Code, Standards, Survey Sheets, Information Sheets, and LVVTA Member Association Technical Manuals.	NZTA will: <ul style="list-style-type: none"><li>• talk to you</li><li>• observe you at work</li><li>• inspect the modifications on vehicles while you are certifying the vehicles, or after you have certified the vehicles</li><li>• inspect inspection and certification documents you use and complete.</li></ul>
6.2	<b>Technical competence</b>	

	What NZTA expects of you	How NZTA will assess your performance
<p>You are competent in all technical aspects relating to <i>Category 2B Motorcycles</i> – <i>scratch-built</i> modifications. This means you are competent in the assessment of <i>Category 2B Motorcycles</i> – <i>scratch-built</i> modifications including:</p> <ul style="list-style-type: none"> <li>the identification of any modifications such as non-OE components and systems</li> <li>the identification of the source of any non-OE components</li> </ul>	<p>NZTA will:</p> <ul style="list-style-type: none"> <li>talk to you</li> <li>ask questions to check your competence relating to any of the modifications, and your assessment of the modifications</li> <li>observe you at work</li> <li>inspect inspection and certification documents you use and complete</li> <li>inspect your <a href="#">Training record</a>.</li> </ul> <p>NZTA may administer a short test on <i>Category 2B Motorcycles</i> – <i>scratch-built</i> modifications, and the assessment of <i>Category 2B Motorcycles</i> – <i>scratch-built</i> modifications.</p>	

	What NZTA expects of you	How NZTA will assess your performance
6.3	<b>Technical equipment</b>	
	<p>You have, or have access to:</p> <ul style="list-style-type: none"> <li>• a graduated lightboard or commercial quality beamsetter</li> <li>• a stop-watch, wrist-watch with a second hand or other device capable of measuring average deceleration</li> <li>• motorcycle inspection stand or lift and safety straps to lift wheels off the ground</li> <li>• an industrial quality hand-held inspection lamp</li> <li>• graduated tyre tread depth gauge</li> <li>• a steel ruler and tape measure</li> <li>• an inspection mirror</li> <li>• a protractor or other device used to measure angles</li> <li>• duct or similar adhesive tape</li> <li>• a string-line</li> <li>• a vernier calliper.</li> </ul> <p>The equipment is in good condition and working order.</p>	<p>NZTA will inspect your technical equipment.</p>

**Scores**

	<b>Score</b>			
	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>6.1</b>	<b>Correct technical decisions</b>			

	<b>Score</b>		
<p>You do not thoroughly inspect all modifications or correctly determine if the modifications comply with all legal requirements.</p> <p>The area of non-compliance is <b>likely</b> to compromise the safety of the motorcycle occupants or other road users.</p> <p>For example:</p> <ul style="list-style-type: none"> <li>• a custom-built frame meets the design or build approval requirements, but critical or load-applying components are attached to areas of the frame that are not multi-tube intersection points, or</li> <li>• a brake system that incorporates welded components, which are relied upon to transmit braking effort, do not have welding approval or NDT evidence, or</li> <li>• a steering head is a custom-manufactured mild steel unit, but does not use tapered roller bearings, or</li> <li>• a suspension coil spring is not sufficiently contained, and could dislodge at full suspension extension, or</li> <li>• a fuel hose or pipe is not made from</li> </ul>	<p>You do not thoroughly inspect all modifications or correctly determine if the modifications comply with all legal requirements.</p> <p>The area of non-compliance is <b>unlikely</b> to compromise the safety of the motorcycle occupants or other road users.</p> <p>For example:</p> <ul style="list-style-type: none"> <li>• a custom-built frame meets the design or build approval requirements, and the details of the frame construction are sound, but the welding process has caused corrosion sites, or</li> <li>• a brake line is correctly fitted and securely attached, but the attachment intervals are slightly greater than the specified requirements, or</li> <li>• a handlebar is not fitted with end plugs or hand grips with end caps, or a steering head is not fitted with dust seals, or</li> <li>• a non-critical component or part of the motorcycle structure can contact the ground during normal cornering or braking operation, or a fuel hose or pipe is correctly fitted and securely</li> </ul>	<p>You thoroughly inspect all modifications and correctly determine if the modifications comply with all legal requirements.</p>	

	Score
6.2	<b>Technical competence</b>

Score			
<p>You demonstrate:</p> <ul style="list-style-type: none"> <li>• <b>some competence</b> in the technical aspects relating to <i>Category 2B Motorcycles - scratch-built</i> modifications, or</li> <li>• a level of competence that <b>may</b> compromise the safety of the motorcycle occupants or other road users.</li> </ul> <p>This means there are <b>some gaps</b> in your knowledge of, and skills in:</p> <ul style="list-style-type: none"> <li>• the assessment of <i>Category 2B Motorcycles – scratch-built</i> modifications, including: <ul style="list-style-type: none"> <li>◦ the identification of any modifications such as non-OE components and systems</li> <li>◦ the identification of the source of any non-OE components and systems</li> <li>◦ the identification and assessment of material types, manufacturing and machining processes</li> </ul> </li> </ul> <p>This means there are <b>significant gaps</b> in your knowledge of, and skills</p>	<p>You demonstrate:</p> <ul style="list-style-type: none"> <li>• <b>adequate competence</b> in the technical aspects relating to <i>Category 2B Motorcycles - scratch-built</i> modifications, or</li> <li>• a level of competence that is <b>unlikely</b> to compromise the safety of the motorcycle occupants or other road users.</li> </ul> <p>This means there are <b>minor gaps</b> in your knowledge of, and skills in:</p> <ul style="list-style-type: none"> <li>• the assessment of <i>Category 2B Motorcycles – scratch-built</i> modifications, including: <ul style="list-style-type: none"> <li>◦ the identification of any modifications such as non-OE components and systems</li> <li>◦ the identification of the source of any non-OE components and systems</li> <li>◦ the identification and assessment of material types, manufacturing and machining</li> </ul> </li> </ul>	<p>You demonstrate <b>comprehensive competence</b> in all technical aspects relating to <i>Category 2B Motorcycles - scratch-built</i> modifications.</p> <p>This means you demonstrate <b>comprehensive knowledge</b> of, and skills in:</p> <ul style="list-style-type: none"> <li>• the assessment of <i>Category 2B Motorcycles – scratch-built</i> modifications, including: <ul style="list-style-type: none"> <li>◦ the identification of any modifications such as non-OE components and systems</li> <li>◦ the identification of the source of any non-OE components and systems</li> <li>◦ the identification and assessment of material types, manufacturing and machining processes (where applicable)</li> <li>◦ the assessment of the suitability of the modifications</li> </ul> </li> </ul>	

	<b>Score</b>			
	<b>Technical equipment</b>			
<b>6.3</b>	Not all of the specified equipment is available. Where equipment is available, some or all of it is not in working order.	All of the specified equipment is available and in working order, but some or all of it is in poor condition.	All specified equipment is available, in working order, and in at least adequate condition.	All specified equipment is available and in good condition and working order.