



Specific Accreditation Criteria

ISO/IEC 17025 Application Document Manufactured Goods - Annex

Vehicle safety testing

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Table of Contents

6	Resource requirements.....	4
	6.4 Equipment	4
	References.....	6
	Amendment Table	6

Vehicle safety testing

This document provides interpretative criteria and recommendations for the application of ISO/IEC 17025 for both applicant and accredited facilities conducting vehicle safety testing..

Applicant and accredited facilities must comply with all relevant documents in the NATA Accreditation Criteria (NAC) package for Manufactured Goods (refer to NATA Procedures for Accreditation).

The clause numbers in this document follow those of ISO/IEC 17025 but since not all clauses require interpretation the numbering may not be consecutive.

Accreditation is available for tests on road vehicles and vehicle components performed to Australian Design Rules, Australian Standards or other recognised national or international standards.

6 Resource requirements

6.4 Equipment

6.4.7 & 6.4.10

Common equipment performance checks

Facilities must ensure that where methods writing bodies have included equipment calibration and checking intervals in standard methods that these intervals must be followed.

Facilities should refer to NATA's *General Accreditation Guidance: General Equipment - Calibration and Checks, General Equipment Table* for further information.

The following supplementary information pertains to equipment items having specific application to road vehicles, seatbelts and accessories testing.

Item of equipment	Calibration interval (years)	Checking interval (months)	Procedures and references
Accelerometers (road vehicle testing)			
Reference	5		
		24	Intercomparison.
Working	3		
		12	Intercomparison.
		Each use	Check by inversion (\pm one 'g').

Item of equipment	Calibration interval (years)	Checking interval (months)	Procedures and references
Angle measuring equipment (road vehicle testing)	2		
Inclinometer (road vehicle testing)	2		
Strain rate control or indicator tachometers	2		
Mechanical - reference	5		BS 3403
Quartz oscillator		Before each measurement*	In-built check.
		On first commissioning or after major maintenance*	Strobe light against mains frequency.
Vehicle distance (road vehicle testing)			
By Fifth Wheel Mechanical		3	Check against surveyed road distance.
Electronic (by Doppler signal)		Each use*	Check against surveyed road distance.
Vehicle speed (road vehicle testing)			
By Fifth Wheel Mechanical		3	Check against surveyed road distance.
Electronic (by Doppler signal)		Each use*	Check against surveyed road distance.
Velocity (road vehicle testing)			
using 'gates' and timer		Each use*	Functional check.
Distance		Five years if fixed; each use if set up	Calibrated tape.
Timer		12*	Standard time signal.

Note: * Commonly conducted by laboratory staff.

References

This section lists publications referenced in this document. The year of publication is not included as it is expected that only current versions of the references shall be used.

Standards

BS 3403	Specification for indicating tachometer and speedometer systems for industrial, railway and marine use
ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories

NATA publications

NATA Accreditation Criteria (NAC) package for Manufactured Goods	
General Accreditation Guidance	General Equipment - Calibration and Checks, General Equipment Table

Other publications

ADR Circular 0-12-3	General Requirements for Calibration of Test Equipment and Instrumentation
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Amendment Table

The table below provides a summary of changes made to the document with this issue.

Section or Clause	Amendment
Common equipment performance checks – mechanical, working	The guidance relating to these instruments (T5033) has been removed as SAE (Australasia) is no longer maintaining technical documents.