
Mapping Comparison

Guide to Temporary Traffic Management and Australian Standard 1742.3 (2009)



Summary

This document maps the content from the superseded AS1742.3 (2009) to either the revised standard AS1742.3 (2019) or Austroads Guide to Temporary Traffic Management.

The 2019 update of AS1742.3 by Standards Australia resulted in the removal of content from the 2009 standard that was determined to be guidance material. This guidance material has been substantially transferred into the Austroads Guide to Temporary Traffic Management and expanded based on information from Austroads member organisations.

To help stakeholders understand these changes, the content from AS1742.3 (2009) has been mapped to identify the new location of this content in either AS1742.3 (2019) or the Guide to Temporary Traffic Management.

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1. Introduction

Project Overview

Austrroads project BN2019 has been established to support the improvement in safety and traffic management practice at road worksites. The first major element of this project has now been delivered as the new Austrroads Guide to Temporary Traffic Management (AGTTM) series which will be published in December 2019 together with an update to Australian Standard AS1742.3. In addition to the improved technical guidance, the project is programmed to deliver harmonised national training for all practitioners operating in temporary traffic management.

Managing risks and providing optimum safety for employees and contractors working in or near traffic, combined with providing a safe road environment for road users, is considered a significant issue for road agencies and industry.

A core element of the program of works undertaken in the development of the Austrroads Guide to Temporary Traffic Management has been the transfer of guidance material from AS1742.3 (2009) to the Guide. In addition, the guidance material has been substantially expanded incorporating best practice material from Austrroads member jurisdictions and from industry.

This project was initiated to assist readers of the AGTTM and the updated Australian Standard in understanding where guidance in the previous version of the Standard was transferred to.

2. Scope of Services

Overview

The current (2019) update to Australian Standard 1742.3 by Standards Australia resulted in the removal of content from the standard that is considered to be guidance material, and which has been transferred into the Austrroads Guide to Temporary Traffic Management (AGTTM) released in December 2019.

Task

As part of the task, the following activities have been completed:

1. Review of updated Australian Standard AS1742.3 to establish the guidance clauses that have been removed from AS1742.3 (2009).
2. Establish for each clause of guidance removed from the Australian Standard 1742.3 (2009 compared to 2019 version):
 - a) the location of material in the current final drafts of guidance material for AGTTM Parts
 - b) any material that has not been captured in these Parts.
3. Creation of a document comprising:
 - a) a table detailing the location of guidance material removed from AS1742.3 and the location in the new guide Parts
 - b) commentary where the nature of specific content may have changed materially from that contained in AS1742.3.

3. Review

The review of the material based on the requirements outlined in the Task is summarised in the tables below. This includes mapping across AS1742.3 (2009) to the newly developed Standard and the location of any material within AGTTM.

AS 1742.3 (2009) – Section 1 Scope and General

AS 1742.3 (2009) - Section No.	Title	Location in new standard (<i>DR AS1742.3:2019</i>)	Location within AGTTM	Commentary
0	Preface	Preface		
1.1	Scope	1.1 Scope		
1.2	Objective	Preface		
1.3	Reference Documents	1.2 Normative references		
1.4	Definitions	1.3 Terms and definitions		
1.5	Responsibility for safety at work sites	1.4 Responsibility for safety at work sites		
1.6	Field Guides			This section has been deleted from AS1742.3 as it is no longer relevant and there is no current equivalent in AGTTM

AS 1742.3 (2009) – Section 2 Principles for the development, installation and operation of a traffic guidance scheme

AS 1742.3 (2009) - Section No.	Title	Location in new standard (<i>DR AS1742.3:2019</i>)	Location within AGTTM	Commentary
2.1	General		Part 6 Section 2.1	Additional relevant principles underpinning the information supported in this section has also been included within the body and guidance material within AGTTM: <ul style="list-style-type: none"> • Part 2, Section 4.7 • Part 3, Section 2.5 • Part 4, Section 2.5 • Part 5, Section 2.4 • Part 7, Section 2.6
2.2.1	Traffic guidance schemes		Part 2	This section of AS1742.3 has been superseded by the material in AGTTM Part 2 which provides far more comprehensive guidance into the planning phase of a project and the development of a TGS.

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
2.2.2	Traffic management plans	2 Traffic management plans	Part 2 Section 3 Section 4 Appendix B	<p>This section of AS1742.3 has been superseded by the material in AGTTM Part 2 which provides far more comprehensive guidance into the planning phase of a project and the development of a TMP</p> <p>Material from Section 2.2.2 of AS1742.3 (2009) has been included within Section 3 and Section 4 of AGTTM Part 2. A Traffic Management Plan Risk considerations checklist has been developed in Part 2, Appendix B.</p>
2.2.3	Risk		Part 10 Section 2	<p>This section of AS1742.3 has been superseded by the material in AGTTM Part 10, Section 3, which provides far more comprehensive guidance into the risk management task associated with TTM.</p> <p>Also see:</p> <ul style="list-style-type: none"> • AGTTM Part 2, Section 2.3, 3.3 and 4.5 - Key risk factors associated with the development of a TMP are outlined in. • AGTTM Parts 3, 4 and 5 - Section 2.2 of each of these parts describes a risk assessment and risk considerations for road works for each of the types of TTM. This includes a Risk assessment section with a number of key considerations associated with different risk categories. • AGTTM Part 6 – Section 5 and Appendix B for risk management practices for field staff • AGTTM Part 7 - Section 2.8.2 summarises risk management practices for Traffic Controllers
2.3	Traffic management			
2.3.1	General		Part 2 Part 3	<p>These sub-sections of AS1742.3 have been superseded by the material in AGTTM Part 2 which provides far more comprehensive guidance into the planning phase of a project and the development of a TMP including considerations for safety and convenience, traffic through the work area, traffic past the work area, and traffic around the work area (side-tracks and detours)</p> <p>AGTTM Part 3 also comprehensively covers the design issues with specific details for Around, Through and Past the worksite. This includes a step by step guide of considerations to follow in developing the Traffic Guidance Scheme.</p>
2.3.2	Safety and convenience			
2.3.3	Traffic through the work area			
2.3.4	Traffic past the work area			
2.3.5	Traffic around the work area			

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
2.3.6	Night conditions	4.2.4 Night conditions	Part 2, Section 4.7.2 Part 3, Section 6.7 Part 6, Section 9 Part 7, Section 2.6.5	At other locations within these Guide parts there are references to additional requirements for works undertaken at night.
2.3.7	Provision for pedestrians and bicycles		Part 3, Section 3.10, 4.10 & 5.13 Part 4, Section 3.8.9 Part 5, Section 3.3	Provisions for vulnerable road users have been substantially expanded throughout the entire AGTTM to ensure that adequate consideration is made for all of these road user groups. AGTTM Part 2 also includes numerous requirements for the planning stage to consider the needs of pedestrians and cyclists.
2.3.8	Temporary footpaths and pedestrian crossing		Part 3, Section 3.10, 4.10 & 5.13	
2.4	Device requirements			
2.4.1	Selection and use	4.2 Selection and use 4.2.1 General		AGTTM Parts 3, 4 and 5 also includes device requirements for the specific activities to be undertaken.
2.4.2	Delineation	4.2.3 Delineation		AGTTM Part 3 also includes delineation requirements for the specific activities to be undertaken.
2.4.3	Night conditions	4.2.4 Night conditions		Also see AGTTM: <ul style="list-style-type: none"> • Part 2, Section 4.7.2 • Part 3, Section 6.7 • Part 6, Section 9 • Part 7, Section 2.6.5
2.4.4	Adjustment to existing devices	4.2.5 Adjustment to existing devices		Also see AGTTM Part 3, Section 2.5.3
2.4.5	Safety barriers	4.2.7 Safety Barriers		AGTTM Part 3 also includes safety barrier requirements for the specific activities to be undertaken.
2.4.6	Vehicle size and load restrictions	4.2.8 Vehicle size and load restrictions		
2.5 (and subsections)	Installation and removal	4.3 installation and removal		The guidance for installation and removal of temporary traffic management has been substantially expanded. See also AGTTM <ul style="list-style-type: none"> • Part 3, Sections 7.3 and 7.4 • Part 6, Sections 6, 7, and 8

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
2.6	Operation			
2.6.1	Daily routine and work site records		Part 6, Section 7, Appendix C Appendix D	
2.6.2	Layout variation		Part 3, Section 6.9 Part 6, Section 10	
2.6.3	Maintenance of devices		Part 6, Section 4.5	
2.6.4	Use of high visibility clothing	4.21 High visibility clothing for work personnel	Part 6, Section 3.3.3 Part 7, Section 2.5	
2.6.5	Hazard avoidance			Covered throughout AGTTM Part 3 in the design of the TGS to establish areas where materials and plant are to be stored to prevent the creation of hazards
2.6.6	Closures and delays			Covered in AGTTM Part 2 in traffic analysis (Section 3.2.3) and throughout AGTTM Part 2 in developing and assessing options
2.6.7	Safety audit		Part 10 Section 3	This section has been substantially expanded to include guidance not only for road safety audits but also for suitability reviews and compliance inspections.
2.7	Emergency and unplanned works		Part 10 Section 5	Expanded based on guidance from QLD TMR

AS 1742.3 (2009) – Section 3 Format and Size of Signs

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
3.1	Functions and devices	Section 4.1 Function of devices		
3.2 (and subsections)	Format and size of signs	Section 4.4 Format and size of signs		
3.3	Size mountings	Section 4.5 Sign Mountings		
3.4	Signs and devices for work site approaches and departures	Section 4.6		

AS 1742.3 (2009) - Section No.	Title	Location in new standard (<i>DR AS1742.3:2019</i>)	Location within AGTTM	Commentary
3.5	Signs and devices for regulatory control of traffic	Section 4.7 Signs and devices for regulatory control of traffic		
3.6	Detour signs	Section 4.8 Detour Signs		
3.7	Road condition signs	Section 4.9 Road condition signs		
3.8	Signs and devices for lane and road closures	Section 4.10 Signs and devices for lane and road closures		
3.9	Devices for delineating and indicating the travelled path	Section 4.11 Devices for delineating and indicating the travelled path	Part 3, Section 4.4	AGTTM Part 3 Section 4.4 - Expansion on the guidance for the types of cones and bollards and the maximum spacing
3.10	Containment fences and road safety barrier systems	Section 4.12 Containment fences and road safety barrier systems	Part 3, Section 5.3	AGTTM Part 3 Section 5.3 - Road safety barrier systems, containment fences and visibility screens are covered extensively in this part of the Guide. It is noted the Austroads Safety Barrier Assessment Panel expects the products to conform to AS/NZS 3845 and a risk assessment, supported by the jurisdiction be completed should any changes to the standards be applied.
3.11	Lamps	Section 4.13 Lamps		
3.12	Vehicle-mounted signs and devices	Section 4.14 Vehicle-mounted signs and devices		
3.13	Blasting work signs	Section 4.16 Blasting work signs		
3.14	Signs and devices for pedestrian control	Section 4.17 Signs and devices for managing pedestrians		
3.15	Signs and devices for vehicle height and mass restrictions	Section 4.19 Signs and devices for vehicle height and mass restrictions		
3.16	Other signs and devices	Section 4.20 Other signs and devices Section 4.22 Variable message signs at roadworks		

AS 1742.3 (2009) – Section 4 Procedures for the installation and operation of traffic control devices

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
4.1	General			
4.1.1	Scope of section		Part 3, Section 1.3 Part 4, Section 1.3 Part 5, Section 1.3	
4.1.2	Maintaining a safe workplace		Part 3, Section 2	
4.1.3	Workplace protection methods		Part 3 Part 4 Part 5	The protection methods outlined within <i>Section 4.1.3</i> has been developed within the separate development of Parts 3, 4 and 5.
4.1.4	Components of a typical work site		Part 3, Sections 3.2, 4.2 and 5.2	The components of a typical work site are included within Part 3 but have been separated into individual figures for each of around, through or past the worksite. An 'additional warning area' is included.
4.1.5	Dimension D			Reference to Dimension D has been removed from AS and Austroads guidance material. Part 3, Section 2.5.3 provides an overview of the advance warning distance for placement of this material.
4.1.6	Tolerances on positioning		Part 3, Section 2.5.3	
4.2	Static work sites		Part 3	AGTTM Part 3 provides detailed guidance on the design of Static worksites with material for around, through and past the worksite.
4.3	Short-term low impact works – open road areas		Part 5	AGTTM Part 5 provides detailed guidance on Short Term Low Impact Works. The references to open road areas and built up areas have been combined.
4.3.1	General		Part 5, Section 2	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.3.2	Works between gaps in traffic		Part 5, Section 4.2	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.3.3	Short term works in traffic		Part 5, Section 4.3	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.3.4	Frequently changing work area		Part 5, Section 4.4	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
4.3.5	Shoulder grading and mowing on sealed roads in open road areas		Part 5, Sections 5.1 and 5.2	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.3.6	Mobile inspections		Part 5, Section 4.5	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.3.7	Work off-roadway		Part 5, Section 5.1 and 5.2	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.4	Short term low impact works – built up areas		Part 5, Section 4	AGTTM Part 5 provides detailed guidance on Short Term Low Impact Works. The references to open road areas and built up areas have been combined.
4.4.1	General		Part 5, Section 2	
4.4.2	Frequently changing work area – work not within traffic lane		Part 5, Section 5.3	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.4.3	Frequently changing work area – Work within a traffic lane		Part 5, Section 4.4	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.4.4	Works on medians, verges and footpaths		Part 5, Section 5.1 and Section 5.2	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.4.5	Street sweeping and garbage collection		Part 4, Section 3.8.11	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.4.6	Works between gaps in traffic		Part 5, Section 4.2	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.5 (and subsections)	Works on unsealed roads		Part 4, Section 3.8.13	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions
4.6	Mobile works		Part 4, Section 3	AGTTM Part 5 guide provides more detailed guidance on Mobile Works.
4.6.1	General		Part 4, Section 3.1 and 3.2	
4.6.2	Work convoy arrangements		Part 4, Section 3.5	Expansion on previous guidance with application criteria, risk considerations and implementation/ operation instructions

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTTM	Commentary
4.6.3	Operating principles		Part 4, Section 2.5 and 3	The operating principles have been considered across the Seven Steps described within Section 3.
4.6.4	Signs		Part 4, Section 3.8.2	
4.6.5	Mobile temporary speed zones		Part 4, Section 3.8.4 and Section 3.8.5	
4.7	Advance and termination warning signs			
4.7.1	General			Concepts are discussed throughout AGTTM <ul style="list-style-type: none"> • Part 3 • Part 4 • Part 5
4.7.2	Advance sign selection		Part 3, Sections 3.7, 3.8, 4.8 and 5.11	Sign selection and TGS design has been separated for the methods of around, through and past the worksite
4.7.3	Intermediate advance signs		Part 3, Sections 3.7, 3.8, 4.8 and 5.11	Sign selection and TGS design has been separated for the methods of around, through and past the worksite
4.7.4	Advance warning distances		Part 3, Section 2.5.3	
4.7.5	Sign display		Part 3, Section 2.5.3	
4.7.6	Frequently changing work area		Part 5, Sections 4.4 and 5.3	
4.7.7	Mobile works		Part 4, Section 3.7	
4.7.8	Avoiding end-of-queue collisions		Part 3, Section 4.8	Expansion and modification to the design principles for determining the signage required for signing and managing end of queue
4.7.9	Termination signs		Part 3, Sections 3.9, 4.9 and 5.12	Sign selection and TGS design has been separated for the methods of around, through and past the worksite
4.8	Approach tapers		Part 3, Section 5.9 Part 4, Section 3.5.3	Part 3 describes appropriate transition areas inclusive of tapers, chicanes and contraflow. Considerations and examples are given for each method. Part 4 includes guidance material to develop a merged taper on Category 3 roads for mobile works sites.
4.9	Creating a temporary speed zone at works on roads	Section 3.4 Creating a temporary speed zone	Part 3, Section 3.5, 4.5 and 5.5 Part 4, Section 3.8.4	Creating a temporary speed zone is described within Part 3 separated for the methods of around, through and past the worksite Temporary speed zones are now also described for mobile works in Part 4.

AS 1742.3 (2009) - Section No.	Title	Location in new standard (DR AS1742.3:2019)	Location within AGTMM	Commentary
4.10	Traffic controllers		Part 7	A new Part 7 guide has been created to provide more detailed guidance for Traffic Controllers.
4.11	Portable traffic signals	Section 4.7.4 (b)	Part 3, Section 5.10.1 Part 7, Section 2.6.3	
4.12	Pilot vehicle	Section 4.15	Part 3, Sections 4.4 and 5.4	Considerations for pilot vehicles have been applied to Part 3, in sections detailing treatments for Through and Past the worksite.
4.13	Maintaining traffic flow			
4.13.1	Length of single-lane operation under reversible flow		Part 2, Section 3.3.4	
4.13.2	Number of lanes for each direction of flow		Part 2, Section 3.2.3 and 3.3.4	
4.13.3	Lane widths		Part 2, Section 3.3.4 Part 3, Section 2.5.8	
4.13.4	Edge clearances		Part 3, Sections 4.4 and 5.4	
4.13.5	Work in residential street		Part 3, Sections 2.5.8 and 5.4.4	
4.14	Detours, side-tracks and cross overs		Part 3, Section 3.8	See also Part 3, Sections 3.1, 3.10 and 3.4
4.15	Excavation works		Part 3, Section 6.8	

AS 1742.3 (2009) – Appendices

Section number from 2009	Title	Location in new standard (DR AS1742.3:201X)	Location within relevant Guide to TTM	Commentary
A	Daily routine tasks and record keeping		Part 6	
B	Emergency and unplanned works		Part 10	
C	Model instructions for traffic controllers		Part 7	
D	Protection and delineation at excavation works		Part 3, Section 6.8	

4. References

AS 1742.3-2009, *Manual of uniform traffic control devices: part 3: Traffic control for works on roads*

AS 1742.3-2019 (Ballot Draft Version), *Manual of uniform traffic control devices: part 3: Traffic control for works on roads*

Download the Guide to Temporary Traffic Management from the Austroads website

<https://austroads.com.au/network-operations/network-management/temporary-traffic-management>

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