

A photograph of a long, straight, reddish-brown unsealed road stretching into the distance under a bright blue sky with scattered white clouds. The road is flanked by green grass and some trees in the distance. The image is overlaid with several semi-transparent blue circles of varying sizes, which serve as a design element for the text.

BEST PRACTICE GUIDES UNSEALED WORKSHOP

Date:
30 Sept -
1 Oct
Time:
9am - 5pm

OUTLINE OF COURSE

Module 1 - Managing Unsealed Roads

This module will provide a comprehensive overview of the key aspects related to the management of unsealed roads from a strategic viewpoint. It will emphasise the phases of setting objectives, defining strategies, developing and implementing works programs and audit and review. Case studies will be used as illustrative examples of Life cycle costing, short- and long-term solutions and when to seal a road.

Module 2 - Unsealed Road Safety and Design

The module will provide an overview of safety considerations in the planning and design stages of a road project, and an introduction to some of the geometric design criteria that are specific to unsealed roads. Topics include crashes on unsealed roads and network level risk assessments, and how the key design parameters vary across unsealed road classes.

Module 3 - Pavement Design, Drainage & Construction

This module will provide a comprehensive overview of the key aspects related to the design and construction of unsealed road pavements. The pavement design component will cover subgrade evaluation, design traffic estimation, material selection and structural design. Important drainage considerations will also be discussed, followed by some important construction considerations.

Module 4 - Maintaining and Operating Unsealed Roads

This module will provide a comprehensive overview of the maintenance and operation of unsealed road including ongoing maintenance, road defects and maintenance options, low cost safety improvement measure and signs and delineation. Case studies will be used as illustrative examples of maintenance and rehabilitation guidance, including identifying defects and selecting treatments.

Module 5 - Construction and Environmental Management

Australia's unsealed roads network is well established and there is an increased focus on ongoing maintenance. However, new unsealed roads continue to be constructed and this module provides an overview of the key elements related to road construction with a focus on unsealed roads. This module also provides guidance on important environmental considerations when designing, constructing and operating unsealed roads.

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WORKSHOP INFORMATION

The Unsealed Roads Best Practice Guide was first published in May 2020 and captures current best practice in managing unsealed roads. The Guide is targeted at local governments (and other organisations) that are tasked with designing, constructing, and maintaining unsealed roads in Australia.

This workshop will provide participants with a comprehensive overview of the Guide, as well as practical training on the interpretation and application of the various elements covered in the Guide, including road safety and design, construction and maintenance, as well as managing and operating an unsealed road network.

Each module will be presented by a resident ARRB specialist and will include both technical background information and practical case studies.

WHO SHOULD ATTEND?

The workshop is primarily aimed at, but not limited to:

- Junior engineers
- Field staff
- Design and asset management engineers
- Contractors responsible for the design, construction, and operation of unsealed roads.

The workshop is also a useful refresher course for more senior practitioners regarding current best practice.

LEARNING OUTCOMES

On completion of the workshop, participants will

- Broad appreciation for the approaches used in the asset management of unsealed roads.
- An understanding of the development and implementation process for works programs.
- Awareness of the key aspects involved in unsealed pavement materials and design.
- Understanding of the typical maintenance activity processes and involved considerations.
- Understanding of when it is appropriate to seal an unsealed road.
- Knowledge of alternative technical options for seals, reseals and dust suppression.

PRESENTERS



BRENDAN WILLIAMS-

SENIOR PROFESSIONAL LEADER

FUTURE TRANSPORT INFRASTRUCTURE

Brendan Williams has previously spent 7 years as a Works Engineer for two rural NSW councils. Both councils have extensive sealed and unsealed pavement networks which required routine maintenance and rehabilitation. He managed the Routine Maintenance Council Contract for both the Golden and Kamilaroi Highways for Transport for NSW.

Brendan joined ARRB in early 2021 and has authored standards, and reports over a diverse range of topics; including unsealed trails and seal designs.



CASSANDRA SIMPSON

PRINCIPAL PROFESSIONAL LEADER,

ASSET MANAGEMENT

Cassandra Simpson completed a Bachelor of Engineering (Civil) and Master of Engineering in Pavements in 2012. She joined ARRB in 2019 as a Principal Professional Leader within the Next Generation Asset Management team. Prior to ARRB, Cassandra worked in the transport industry managing routine maintenance/ rehabilitation/ resurfacing contracts, development of asset management programs including field assessment of road conditions, providing technical advice for pavements and bituminous surfaces, field inspections of bituminous surfaces in urban and rural environments to create resurfacing programs, writing and review of specifications, research into field performance of bituminous surfaces, review and advice on skid resistance issues, pavement asset management using pavement management systems (DTIMS).

At ARRB, she is responsible for bid/tender preparation, coordination, project management and business development of pavement asset management projects and research, asset management modelling, service level determination of assets, specialist surfacing treatment selection and advice.

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