

Public Works Foundations Program



Course Outline

Stabilisation Foundations

What is the Stabilisation Foundations course?

This course is one of eight **Public Works Foundations Program** courses curated by IPWEA Victoria to develop the skills of public works professionals in key responsibility areas. Each course comprises four 4-hour online sessions presented over consecutive weeks.

Course Overview

Stabilising and recycling materials for pavement construction and rehabilitation has become a widely accepted, sustainable and cost-effective method of improving long-term pavement performance and reducing whole-of-life costs of modern pavements. This course provides an understanding of best-practice stabilisation options and applications for optimal outcomes.

Modules

Session 1: **Pavement Structural Design**

Session 2: **Materials and Binders**

Session 3: **Pavement Construction**

Session 4: **Pavement Maintenance**

Learning Objectives

Delegates will gain an understanding of the overall concepts and principles of the road stabilisation applications in Australia & New Zealand including the language used, the process involved and best-practice case studies.

Delegates will be able to assist with the application of stabilisation technology for stabilising and recycling materials for pavement construction and rehabilitation that will enable initial determination of the suitability of stabilisation as a treatment option in terms of both practicality and cost-effectiveness for projects. Topics include:

- Types of Stabilisation Undertaken
- Relative Costs of Stabilisation
- Binder Types
- Characteristics of Materials
- Material Mix Design
- Structural Design of Insitu Stabilised Pavements
- Construction Process & Pitfalls, Equipment & Design Detailing
- Rehabilitation
- Types of Specifications & Contracts

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Delivery

The course is presented online to maximise accessibility for regional & interstate participants.

Facilitators

Madeleine McManus OAM, FIEAust, NER, CPEng, EngExec, RPEV

Madeleine McManus is a distinguished engineer and leader with over 25 years of experience. She is currently the CEO of CPEE – the Centre for Pavement Engineering Education and the Centre for Professional Engineering Education (CPEE), Global Director of Robogals, member of the National Pavement Taskforce, co-chairs with the CEO of NTRO the industry advisory board for national Pavement research, known as the SPARC HUB and has recently been made the independent Chair of Yarra Trams operated by JV with Transdev and John Holland. Madeleine also serves on various government, academic and industry committees/boards, including the Victorian Government's Construction Leadership Group and the Australian Regenerative Medicine Institute (ARMI).

Leah Fisher, FIEAust, NER, CPEng, EngExec

Leah Fisher is a professionally registered engineer and holds a Bachelor of Engineering (Civil), a Master of Business Administration and is a Fellow and Chartered Engineer with Engineers Australia. She has more than 25 years' experience in the industry and is a passionate and detail oriented civil project professional and general manager with experience in all sectors and sizes of companies delivering projects or organisational outcomes in New South Wales and nationally. She was previously the CEO and Executive Officer of AustStab for more than 5 years and during her tenure she gained industry acceptance of the national accreditation scheme and AustStab's National Awards of Excellence and she was part of the core delivery team for the CPEE Pavement Stabilisation Courses.

Who should enrol?

This course has been developed for public works engineers, technical officers, coordinators and supervisors engaged with the design, construction & maintenance of road infrastructure.

CPD and Badge

The course provides 16 hours of Continuing Professional Development (CPD) and a digital badge is provided on successful completion for social media use.

Course Partners

