



Bituminous Surfacing Principles & Practice (3 days)

'State-of-the-art' technology, principles and practice.

For asphalt and other bituminous surfacing engineers and supervisors.

In Brief . . .

This 3-day course is designed to enhance participants' knowledge of the principles and practices involved in the design, construction and maintenance of flexible pavements, with a specific focus on asphalt technology. It is especially appropriate for managers, engineers and supervisors who have had little previous experience in the use of asphalt and other bituminous materials, and is a useful pathway to the more specialised courses.

Difficulty

Introductory - Intermediate

Who should attend this course?

It is intended for engineers, supervisors and technical officers who have a basic knowledge of bituminous materials and some familiarity with the design, construction and/or maintenance procedures for flexible pavements.

The program includes

- Evolution of Flexible Pavements
- Pavement Terminology
- Materials - binders, aggregates
- Comparison of Surfacing
- Asphalt
 - selection and design
 - manufacture
 - paving and compaction
- Sprayed Treatments
 - selection and design
 - construction procedures
- Maintenance and rehabilitation treatments
- Design of flexible pavements
- Sustainability concepts
- Warm mix asphalt and RAP
- Working safely with bituminous materials.

Here are your benefits

At the conclusion of this course you should be able to:

Course Code:	TC1461
Start:	Tues., 19th Aug., 2014 08:30 AM (registration starts 15 minutes before)
Venue:	Brisbane
AAPA Members Fee:	\$1255
NON Members Fee:	\$1445

Members'/non-Members' pricing - contact AAPA if unsure of your organisation's membership status.

- Define common terminology used in the roads industry;
- Understand the properties of the range of bituminous materials used in road construction and maintenance;
- Understand those properties of aggregates and other natural materials which influence their use in flexible pavements, asphalt and bituminous surfacings;
- Appreciate sustainability concepts and the attributes of various bituminous surfacings;
- Identify different asphalt mixes and their properties;
- Describe the principles for designing dense graded mixes;
- List the different types of asphalt manufacturing plant and describe their operation;
- Describe the equipment used for laying asphalt and understand its proper use;
- Describe the equipment used to compact asphalt and understand its proper use;
- Understand the sustainability benefits of WMA and RAP;
- Identify different sprayed treatments and understand the procedures for their design and/or construction;

CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

Engineers Australia members can choose to record CPD hours for attendance at this event in their personal CPD logs.

Engineers Australia members should refer to Engineers Australia's CPD Policy for details of requirement and conditions.

- List the common defects which occur in flexible pavements and maintenance and rehabilitation techniques available;
- Understand the asphalt pavement design process;
- Describe procedures for safe handling of bituminous materials.

Fees & Registration

Course fees are \$1255 for AAPA Members and \$1445 for non-Members (incl GST). Fees include lunch, morning and afternoon teas, course notes and other handouts and a personalised certificate of attendance.

A Statement of Successful Completion of Written Assignment will be awarded on satisfactory completion of an optional written assignment.

Please complete the on-line registration form and select your payment preference. All registrations will be confirmed and a tax invoice/receipt will follow.

Choose your payment method

1. Credit card (Mastercard, Visa, Amex)
2. Cheque (payable to "AAPA")
3. Purchase Order (Company/Council/Govt.)
4. Invoice Terms:
 - 30 days - AAPA Members only;
 - Non-members - payment in advance of course
5. Electronic Funds Transfer Bank:
 - Members Education Credit Union, Kew
 - Account Name:
 - Australian Asphalt Pavement Association
 - BSB: 313 140 Account: 23104301
 - Please send remittance advice to:
 - remittance@aapa.asn.au

Cancellations, Transfers & Refunds

If you cannot attend a course for which you have registered, please notify AAPA. You have a number of options:

- You can arrange a **substitute delegate** from your organisation.
- You can **transfer your registration** to another course (**once only**).
- Course fees are refundable up to **7 working days prior to the course**, but will incur a \$75 cancellation fee (incl GST).
- AAPA reserves the right to postpone or cancel courses without notice. Full refund will be issued if this occurs.

No refunds will be given within 7 working days of the course commencement date.

Please note: No refunds or credits can be given for delegates who register for a course but fail to attend. Full course fees will be payable, however a full set of course notes and materials will be provided on request once payment has been received.

Enquiries

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Email: trainingcentre@aapa.asn.au

Website: www.aapa.asn.au

About Transport & Main Roads, QLD . . .

The Queensland Department of Transport & Main Roads plans and builds road, rail, freight and maritime infrastructure and regulates those who use it. The Department's aim is to deliver better public transport and transport infrastructure to connect Queensland. Transport and Main Roads also ensures roads, railways, busways and marine infrastructure are more efficient, reliable and safe.

The Department's Engineering and Technology Branch provides leadership and expertise for the Department's engineering and technical disciplines to support delivery of the infrastructure program and operation of the transport network.

The Branch's Pavements, Materials and Geotechnical Unit in Brisbane provides expertise in the areas of pavements, materials and road surfacing.

About IPWEA . . .

The Institute of Public Works Engineering Australia is a professional organisation providing member services and advocacy for those involved in planning and delivering public works and engineering services to the community. Its members represent practitioners in state and local government as well as private industry.

The IPWEA promotes professionalism, education and technical knowledge and holds strategic alliances with other relevant organisations.

About AAPA . . .

The Australian Asphalt Pavement Association is a non-profit organisation which promotes the economic use of asphalt and bitumen-bound products based on sound technical and commercial grounds.

Since its formation in 1969, AAPA has maintained as its major objective the dissemination of technical knowledge aimed at continuing improvement in asphalt technology.

AAPA Members include manufacturers of asphalt and other bitumen-bound products, State Road Authorities, Local Government, paving consultants, material suppliers, plant and machinery manufacturers, paving and sealing contractors and individuals interested in asphalt technology.

Other courses offered

- Asphalt Placement & Compaction
- Fundamentals of Bituminous Surfacing
- Pavement Maintenance Practices
- PMBs & Bituminous Emulsions
- Selection of Pavement Surfacing
- Sprayed Sealing Selection & Design (2 days)
- Sprayed Sealing Field Procedures
- Working Safely with Bitumen