

**Asphalt Pavement Construction****Essentials** (half day)

This course is designed to enable both new and novice construction personnel to learn and understand the basic concepts and requirements to lay a quality chipseal/asphalt pavement. On occasion a new staff member is thrown into a crew and is given a basic task to perform, yet they never really get to understand the total picture of what they are working towards. This course is designed to create a better understanding of all aspects of the construction process.

17 June	Auckland
Cost (excl GST)	\$595

**Bitumen – Managing the Risks** (1 day)

This is an essential risk awareness course targeted at managers, engineers and supervisors involved in managing businesses or operations that include the storage, production and transport of bituminous materials; and road surfacing works. A separate course "Bitumen - Basic Safety" is intended for all others involved in the road surfacing industry.

27 June	Christchurch
26 September	Auckland
Cost (excl GST)	\$745

**Bitumen Bulk and Tanker Operator** (1 day)

The operation of bulk bitumen and emulsion handling and transport equipment (tankers, storage and blending plants) demands a basic knowledge of the properties of bitumen and associated products and adherence to strict safety procedures. Production is improved if operators have the appropriate advanced knowledge and skill to accurately and safely use plant and equipment. Quality is maintained by bitumen product knowledge, adherence to handling procedures, accurate blend and calculation and careful record keeping.

12 June	Dunedin
18 June	Christchurch
17 September	Auckland
15 October	Wellington
Cost (excl GST)	\$745

**Bitumen – Basic Safety** (1 day)

It is absolutely essential that all those involved in any way with bituminous materials fully understand the significant hazards presented and the procedures used to ensure safety. This is a required comprehensive safety awareness course for all personnel in the road surfacing industry and is presented with the aid of practical examples and videos. It is a pre-requisite for other advanced courses for those handling, operating, maintaining or working near bitumen equipment or supervising the use of bituminous materials. This course will assist with compliance with individual and company health and safety responsibilities.

11 June	Dunedin
17 June	Christchurch
9 September	Hamilton
11 September	Tauranga
16 September	Auckland
14 October	Wellington
Cost (excl GST)	\$745

**Bitumen Sprayer Operator** (1 day)

Precise and competent operation of the bitumen sprayer is essential to successful chipsealing operations. Sprayer performance is improved if operators have detailed knowledge of the principles of the chipsealing process and the appropriate knowledge to accurately use the equipment.

Output quality is enhanced by bitumen product knowledge, adherence to safe handling procedures and careful record keeping.

13 June	Dunedin
19 June	Christchurch
18 September	Auckland
16 October	Wellington
Cost (excl GST)	\$745

**Bridge and Other Significant Highway Structures Inspection** (2 days)

This is the **NZTA endorsed** and certified course designed to ensure the correct requirements are met for the inspection of bridges and other significant highway structures. NZTA requires this training as a condition to inspecting NZTA structures.

28-29 May	Auckland (FULL)
18-19 June	Christchurch
27-28 August	Auckland
Cost (excl GST)	\$1695

**Bridge Inspection & Maintenance Procedures** (2 days)

Bridges are valuable assets, which must be maintained and managed if they are to remain functional at optimal cost through their design life. Whilst this course does include a module on the inspection process, this is not considered in detail. Completion of this course does not certify delegates to inspect NZTA bridges. The NZIHT sister course Bridge and Other Significant Highway Structures Inspection is required.

30 April-1 May	Auckland (FULL)
30-31 July	Auckland
17-18 September	Christchurch
Cost (excl GST)	\$1195

**Chipseal Materials** (half day)

This course provides an introduction to the materials and specifications used in chipseals in NZ. It is intended for those who have not previously acquired the knowledge or had formal detailed training in this subject. It is essential knowledge for those wishing to attend the NZIHT 'Chipseal Design' course and is intended to give a good understanding of the basic properties, NZTA specifications and performance of the component materials – bituminous binders, binder additives and mineral aggregates.

23 June	Christchurch
22 September	Auckland
20 October	Wellington
Cost (excl GST)	\$595

**Chipseal Design** (2 days)

Factors affecting the design and the field performance of chipseal surfacings are complex. Local conditions can significantly influence the way a seal is designed to get the best performance. Prior detailed knowledge of chipsealing materials is an essential requirement for this course. A short preparatory course

"Chipseal Materials" is available for those who wish to update their knowledge (normally run the previous afternoon). The treatment selection and design procedures from the textbook "Chipsealing in New Zealand" provide the basis for this course and a range of worked examples are included.

24-25 June Christchurch

23-24 September	Auckland
21-22 October	Wellington
Cost (excl GST)	\$1195

**Environmental Management \*\*On-Line**

**ZOOM\*\*** (2x 3hr sessions)

Do you know the environmental risks and obligations of construction projects? This course provides participants with a practical understanding of the environmental aspects of civil construction. The course is designed for anyone involved in the construction industry, including contractors, project managers, regulators and consultants.

• 13 May: 9.00am - 12.00pm **AND**

• 14 May: 9.00am - 12.00pm

NOTE: Participants must participate in both sessions to get the full benefit and to receive their certificate of participation.

Cost (excl GST) \$395 per person

**Geometric Design for Roads** (2 days)

This course covers geometric design principles specifically for the design of New Zealand roads. The aim of this course is to develop an understanding of the principles of geometric design, and apply these to design safe, functional and aesthetic road alignments in accordance with the requirements of the latest Austroads guidelines.

14-15 May	Wellington
12-13 June	Christchurch
16-17 July	Auckland
Cost (excl GST)	\$1195

**Identify, Locate and Protect Services**

(1 day)

Civil construction sites are inherently dangerous places of work. Where excavations are present or where the work requires ground penetration, particularly by metal pegs, rods, stakes and the like, there is an immediate opportunity for potential conflict with existing utility services located underground.

12 June	Christchurch
26 June	Wellington
3 July	Auckland
Cost (excl GST)	\$745

**Inspecting Roads & Establishing Maintenance Needs** (1 day)

Inspecting roads effectively remains a critical skill in the management of the roading infrastructure. Developing knowledge to identify faults, their cause and target the right intervention at the right time is the objective of this course.

20 May	Auckland
11 June	Christchurch
Cost (excl GST)	\$745

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**Microsoft Excel \*\*On-Line ZOOM\*\***

(2x 3hr sessions)

Do your Excel skills need improving to manage all of the above? Are you self-taught or need a refresher? Learn how analysis your data with functions, filters, Pivot tables, charting, navigating large spread sheets, saving time and become a confident Excel user. This live online zoom training will hone your skills.

- 13 June: 9.00am - 12.00pm AND
- 16 June: 9.00am - 12.00pm

NOTE: Participants must participate in both sessions to get the full benefit and to receive their certificate of participation.

Cost (excl GST) \$395 per person

**Pavement and Rehabilitation Design**

(2 days)

This course covers pavement design and rehabilitation design in accordance with the latest version of the Austroads Pavement Design Guide and the associated NZ Guide to Pavement Structural Design and Guide to Pavement evaluation and Treatment Design and contains hands-on applications of mechanistic analysis in the design process.

7-8 July Christchurch

11-12 August Auckland

Cost (excl GST) \$1195

**Pavement Investigation, Design and Construction Testing** (1 day)

Best practice guidelines for investigation and design of pavements will be introduced. This includes flexible and rigid pavement for roads, industrial developments and subdivisions. Most cost effective and environmentally friendly design solutions will be covered for new and existing pavements. Calculation of pavement deflection and curvature function will be introduced in the course with examples using the design and analysis program Circly to meet Auckland Transport EPA technical requirements.

14 May Auckland

Cost (excl GST) \$945

**Pavement Surfacing** (1 day)

High quality pavements, along with the correct selection of pavement surfacing materials are critical to the safety, longevity and condition of New Zealand roads. This course will outline and identify the multiple types of surfacing currently in use, the variety of materials used in maintaining these pavements, as well as design, equipment use and surfacing type selection. Asphalt and Chipseal practices will be covered at length including cutting and preparation, along with procedures for patching both of these surfacing types.

13 May Wellington

24 June Auckland

Cost (excl GST) \$745

**Safety in Trenches** (1 day)

This course covers the safety aspects of working in and around trenches within the civil industry and covers drainage work from small pipe, small scale excavations to large storm water and deep excavations. The construction and installation of shoring and retaining equipment and materials is covered in detail and there are exercises in design during the day. It is a detailed look at what can happen if the correct procedures are not taken.

13 June Christchurch

27 June Wellington

4 July Auckland

Cost (excl GST) \$745

**Stabilisation of Road Pavements –****Fundamentals** (1 day)

Stabilisation can provide major benefits for roading projects of all sizes, and significantly offer acceptable cost effective alternatives to the use of premium sources of aggregates. With the advent of new TNZ performance specifications (B/3 and M/22), there is the opportunity to use alternative materials in conjunction with stabilisation techniques, to meet strength and durability requirements for pavements. This workshop provides an overview of the main issues involved with the design and construction of sealed and unsealed pavements using stabilisation.

19 May Auckland

14 July Christchurch

4 August Wellington

Cost (excl GST) \$745

**Successful Project Management** (2 days)

The pace of change means that more and more inexperienced people are being asked to lead projects. The deadlines are often very short; the available resources are limited; and the stresses brought on by the pressure to succeed are intense. We've distilled the wisdom and experience of project managers into a simple six-step approach to leading a successful project. We'll help you learn it effortlessly in our highly interactive two day course. It's a practical approach that is easy to apply to any situation.

14-15 May Auckland

Cost (excl GST) \$1195

**Supercharged Supervisors Toolkit** (1 day)

Leaders are people who know how to achieve goals and inspire people along the way. It's vital that you not only know what leadership behaviours are required, but also how to do it. Good leaders in return get more job satisfaction out of their role. Participants will first explore their own style of leadership and then learn how to adapt their style to bring out the best in others. You will leave with your own personal action plan to raise the bar for you and your team. This highly interactive one day course will address a number of essentials for the supervisor to know and do.

10 June Auckland

Cost (excl GST) \$945

**The Fundamentals of Asphalt Mix** (2 days)

This course provides an overview of asphalt mix design and includes the latest design methods from America and Australia. The methods will include Austroads Guide to Pavement Technology and SHRP Superpave Mix Design. This course also includes an overview of the specification for dense graded, stone mastic and fine graded asphalt paving mixtures NZTA M/10. This will assist engineers and supervisors in their understanding of the design process and specifications.

7-8 July Christchurch

11-12 August Wellington

8-9 September Auckland

Cost (excl GST) \$1195

**Understanding Asphalt Pavement****Construction** (1 day)

Asphalt paving construction productivity depends on the smooth and safe running of laying operations and effective contractual relationships. It also depends on understanding the materials being dealt with. Poor construction practices often lead to surface defects, incorrect layer thickness and shape problems. The cost associated with rework and/or the repair of asphalt surfacing can wipe out the value of the work. Competent supervision can avoid many of these problems.

7 May Christchurch

18 June Auckland

Cost (excl GST) \$745

**Understanding NZS3910:2023 - the 'New' Conditions of Contract** (2 days)

Following the review of NZS3910 in 2023, this popular course has been updated to reflect the new requirements. It continues to be run on a practical and 'hands-on' point of view to benefit Principals, Consultants and Contractors regarding how to manage and administer contracts and to understand their obligations and liabilities under NZS3910. Until the new version has been in use for a while, course examples will reflect previous versions of NZS3910.

15-16 May Christchurch

27-28 May Taupo

28-29 May Auckland

22-23 July Palmerston North

29-30 July Invercargill

5-6 August Hamilton

19-20 August Christchurch

26-27 August Auckland

Cost (excl GST) \$1195

**Understanding NZS3910 Conditions of Contract – the 2013 version** (2 days)

This course is based on the 2013 version of NZS3910. For the last three years, NZS3910 has been under review. The 2023 version is being released in December 2023. All existing / current contracts using the 2013 version will continue to use the 2013 procedures. The 2023 version can be used only for new contracts let in 2024 or later. This course on the 2013 requirements will include highlights of the major changes. People planning to use the 2023 version for their new contracts should attend our separate course on the new NZS3910: 2023 version - [Understanding NZS3910:2023 - the 'new' Conditions of Contract](#)

10-11 June Auckland

Cost (excl GST) \$1195

**Understanding NZS3915 \*\*On-Line ZOOM\*\***

Do you know what the responsibilities for the Principal are under NZS3915 where there is no 'Engineer' to the Contract? Or the rules for handling disputes? Because this standard is based on the 2003 version of NZS3910, it is simpler, but has significant differences from the 2013 version, particularly in relation to term maintenance contracts. This course is designed for people who are already familiar with NZS3910:2013.

24 June 9am-12pm\*\*ONLINE ZOOM\*\*

Cost (excl GST) \$345

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**Understanding NZS3916 \*\*On-Line****ZOOM\*\***

Do you understand the comprehensive design requirements under NZS3916: 2013 (Design and Construct)? Do you know what the rules are regarding intellectual property? These are just some examples of the differences from NZS3910:2013. This course is designed for people who are already familiar with NZS3910:2013.

16 June 9am-11am\*\*ONLINE ZOOM\*\*

Cost (excl GST) \$295

**Understanding NZS3917 \*\*On-Line****ZOOM\*\***

Do you understand the different requirements for remedying defects under NZS3917: 2013 (Fixed Term)? Or for the Programme? Or for insurance? Or for the Contract Works Period? These are just some examples of the differences from NZS3910:2013. **This course is designed for people who are already familiar with NZS3910:2013.**

27 June 9am-11am\*\*ONLINE ZOOM\*\*

Cost (excl GST) \$295

**Understanding NZS3917:2013 - Fixed Term**

(2 days)

With the increasing use of NZS3917 Conditions of Contract for Building and Civil Engineering: Fixed term, NZIHT is pleased to introduce a two-day course focused solely on NZS3917. The course is presented from a practical and 'hands-on' point of view for Principals, Consultants and Contractors regarding how to manage and administer fixed term contracts under NZS3917. The course is designed for people not familiar with NZS 3910, as it covers a lot of the same material in the popular NZS 3910 course.

21-22 May Tauranga

13-14 August Wellington

Cost (excl GST) \$1195

**Understanding Quality Pavement****Construction (1 day)**

The current trend towards performance-based specifications for roading and civil construction projects increases the need for contracting firms to understand the issues involved with pavement construction, especially material compaction. This course provides an overview of theory and practice to assist team leaders and supervisors/forepersons to manage construction in the field.

20 May Auckland

15 July Christchurch

5 August Wellington

Cost (excl GST) \$745

**Understanding the Construction Contracts****Act 2002 \*\*On-Line ZOOM\*\***

The Construction Contracts Act 2002 applies to all construction contracts that relate to the carrying out of construction work in New Zealand, whether the contract is in writing, oral, or a mixture of both, and whether it is for commercial or residential construction. This course, from a practical and 'hands-on' point of view, will benefit Clients, Consultants and Contractors wanting to understand the key provisions of this Act, and how it applies to them.

7 July 9am-12pm \*\*ON LINE ZOOM\*\*

Cost (excl GST) \$345

**Understanding the National Utilities Code**

(2 days)

Are you complying with the National Utilities Code? Its use is compulsory for all road and rail controlling authorities and utility network operators and their contractors for access to the road and rail corridors to install and maintain utility assets. It is designed for corridor managers, utility operators, consultants and contractor staff who supervise work in the road and rail corridors. It covers interpreting the Code from start to finish and how to comply with the requirements of the Utilities Access Act 2010.

13-14 May Christchurch

4-5 June Auckland

17-18 June Wellington

Cost (excl GST) \$1095, \$1195 (2025)

**Valuing Variations (1 day)**

Valuing variations is one of the biggest challenges contractors and the engineer to the contract face. Almost all construction and civil engineering contracts will vary from the original design and scope as the contract progresses. But how do you ensure that the valuation of the variation is fair and equitable to both the principal and the contractor? This is a practical course, based on the provisions in NZS3910.

20 May Christchurch

1 July Auckland

Cost (excl GST) \$745

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