

# TRAININGTALK

TRAINING NEWS FROM THE NEW ZEALAND INSTITUTE OF HIGHWAY TECHNOLOGY **OCTOBER 2016**

NZ Transport Agency & NZIHT

## 17<sup>th</sup> ANNUAL CONFERENCE

30<sup>th</sup> Oct - 1<sup>st</sup> Nov 2016  
**Dunedin Centre**

### TOWARDS WORLD LEADING ROAD OPERATION, CONSTRUCTION & MAINTENANCE

**KEYNOTE  
SPEAKERS**

#### NEIL COOK

Director of Infrastructure Advisory Consultancy, Rationale



Neil Cook is a Director of Infrastructure Advisory Consultancy, Rationale. He is an experienced senior executive with extensive experience in public infrastructure planning and operations. Returning to New Zealand earlier this year after 3 years in Fiji where he established the

Fiji Roads Authority, Neil was engaged by NZTA and the Councils of Northland to assist with implementing one of the broadest collaborations the New Zealand transport sector has seen.

Prior to taking on the challenging Chief Executive role in Fiji, Neil held senior roles in the public and private sector in New Zealand. He is a Chartered Professional Engineer, a Fellow of IPENZ and a past-President of INGENIUM.

He has been heavily involved in key sector initiatives over the past decade and believes greater collaboration has the potential to deliver exceptional value to our communities. Neil strongly advocates for Engineers to step up as leaders to help communities, Councils and government grapple with the challenges that face us in the delivery of essential public infrastructure and services.

#### ROBERT JONES BSc, FIPENZ, FIEAust, FAIB, FCIIOB

Chief Executive Officer – Fulton Hogan – New Zealand



Robert was appointed to the role of Fulton Hogan's Chief Executive Officer New Zealand in July 2015, and is responsible for the leadership of the combined Regional and Infrastructure businesses across the country. He joined Fulton Hogan in January 2012 as Chief Operating

Officer – Infrastructure, responsible for leading the company's infrastructure expansion in the New Zealand market.

He came to New Zealand in 2005 as the Project Director for the Northern Gateway Alliance and was subsequently appointed as the Country Manager for Leighton Contractors, (now CPB).

Robert has over 40 years' experience in the construction sector. His career includes extensive experience in managing major engineering projects around the world.

Robert is a Board member of the New Zealand Council for Infrastructure Development. He is also a Fellow of the Institution of Engineers NZ, a Fellow of the Institution of Engineers, Australia, a Fellow of the Chartered Institute of Building (UK), and a Fellow of the Australian Institute of Building.

#### FOR INFORMATION PLEASE CONTACT.

Jill Warner, NZIHT Conference Co-ordinator  
P. 06 759 7065 ext. 709 E. [jill@nzih.co.nz](mailto:jill@nzih.co.nz)  
Register now at [www.nzih.co.nz](http://www.nzih.co.nz)



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## UNDERSTANDING THE NATIONAL UTILITIES CODE

2 DAYS

PRESENTERS **Fiona Knight**

### How well do you know 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.

This popular course gives an intensive look at the Code from principles to specifics, and includes discussion on the roles and needs of the different parties.

#### DATES

<b>CHRISTCHURCH</b>	5-6 October
<b>PALMERSTON NORTH</b>	17-18 October
<b>TAURANGA</b>	27-28 October
<b>INVERCARGILL</b>	13-14 December

#### FOR MORE INFORMATION CONTACT

**Lisa Banks**

✉ [lisa@nziht.co.nz](mailto:lisa@nziht.co.nz)  
☎ 06 759 7065 ext 705.

## ENVIRONMENTAL RISKS OF CONSTRUCTION

2 DAYS

PRESENTER **4Sight Consulting and Emma Comrie-Thomson**

### 'PREPARING YOU WITH THE ON-SITE ESSENTIALS'

#### Do you know the environmental risks and obligations of the construction projects?

This course provides participants with a practical understanding of the environmental aspects of civil construction. Providing you the know-how to understand your legal obligations, raise environmental awareness and find workable solutions too many of the common risks on construction sites.

The course is designed for anyone involved in the construction industry, including contractors, project managers, regulators and consultants.

#### DATES

<b>AUCKLAND</b>	27 October
<b>CHRISTCHURCH</b>	23 November

#### FOR MORE INFORMATION CONTACT

**Lisa Banks.**

✉ [lisa@nziht.co.nz](mailto:lisa@nziht.co.nz)  
☎ 06 759 7065 ext 705.

## GEOMECHANICS FOR NEW ZEALAND ROADING

1 DAY

PRESENTER **Ian Anderson**

This course draws together the necessary soil investigation and geotechnical procedures for roading construction and maintenance. The course provides an up-to-date overview of investigative techniques and analysis.

#### DATES

<b>DUNEDIN</b>	19 October
<b>HAMILTON</b>	16 November
<b>CHRISTCHURCH</b>	23 November

#### FOR MORE INFORMATION CONTACT

**Lisa Banks.** ✉ [lisa@nziht.co.nz](mailto:lisa@nziht.co.nz) ☎ 06 759 7065 ext 705.

## GEOMETRIC DESIGN FOR ROADS

2 DAYS

PRESENTER **Len Nel**

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 2009 Austroads guidelines.

#### DATES

<b>DUNEDIN</b>	16-17 November
<b>WELLINGTON</b>	6-7 December

#### FOR MORE INFORMATION CONTACT

**Jan Kivell.** ✉ [jan@nziht.co.nz](mailto:jan@nziht.co.nz) ☎ 06 759 7065 ext 708.

### CONTACT INFORMATION

**New Plymouth Office**  
P. 06 759 7065 F. 06 759 7066

**Hamilton Office**  
P. 07 850 8330 F. 07 850 8329

**[www.nziht.co.nz](http://www.nziht.co.nz)**

**Conferences & Specialist Workshops**  
Jill Warner – [jill@nziht.co.nz](mailto:jill@nziht.co.nz)  
ext 709

#### Short Courses

Lisa Banks – [lisa@nziht.co.nz](mailto:lisa@nziht.co.nz) ext 705  
Jan Kivell – [jan@nziht.co.nz](mailto:jan@nziht.co.nz) ext 708

#### Degree & Diploma

Jill Warner – [jill@nziht.co.nz](mailto:jill@nziht.co.nz) ext 709

#### The Diploma of Engineering (Civil)

Gerhard van der Westhuizen – [gerhard@nziht.co.nz](mailto:gerhard@nziht.co.nz)  
May Osborne – [may@nziht.co.nz](mailto:may@nziht.co.nz)

**NZ Certificate in Infrastructure Works (Level 2) + (Level 3)**  
Jan Kivell – [jan@nziht.co.nz](mailto:jan@nziht.co.nz)

NZIHT operates as an independent company with the Western Institute of Technology at Taranaki as the sole shareholder.



# AN INTRODUCTION TO MATERIALS FOR CHIPSEALS

## HALF DAY

**PRESENTER** Barry Gundersen

This course provides a basic introduction to the materials used in chipseals in NZ and is intended for those who have not previously had formal training in this subject from other courses.

It is essential knowledge for those supervising road surfacing operations and is intended to give a good understanding of the properties and specifications of the component materials – bituminous binders and mineral aggregates.

Knowledge of the subject matter in this course is essential for those wishing to attend the NZIHT "Chipseal Design" course.

### DATES

**AUCKLAND**

3 October

### FOR MORE INFORMATION CONTACT

**Jan Kivell.**

✉ jan@nziht.co.nz ☎ 06 759 7065 ext 708.

## CHIPSEAL DESIGN

2 DAYS

**PRESENTER** Barry Gundersen

**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.**

A detailed knowledge of the materials, treatment selection, design procedures and construction processes is essential to any understanding of chipseal performance on the road.

The design procedures from the textbook "Chipsealing in New Zealand" provide the basis for this course and includes a range of worked examples. A problem-solving session in syndicate workgroups also aids understanding. In addition, the practical application of the NZTA P/17 performance-based specification will be covered in detail, including worked examples.

### DATES

**AUCKLAND** (confirmed) 4-5 October

### FOR MORE INFORMATION CONTACT

**Jan Kivell.** ✉ jan@nziht.co.nz

☎ 06 759 7065 ext 708.

**NZIHT WOULD LIKE TO THANK HIREEPOOL FOR SUPPORTING THE NEW ZEALAND CERTIFICATE IN INFRASTRUCTURE WORKS LEVEL 3.**



**Hirepool**

0800 15 15 15

**hirepool.co.nz**



## UNDERSTANDING NZS3910:2013 CONDITIONS OF CONTRACT

### 2 DAYS

**PRESENTER** Fiona Knight

**How well do you know the contents of NZS3910, which are the 'rules' for administering and managing civil and building contracts?**

This popular course, from a practical and 'hands-on' point of view will benefit Clients, Consultants and Contractors regarding how to manage and administer contracts and to understand their obligations and liabilities in terms of these General Conditions of Contract.

### DATES

**CHRISTCHURCH** 23-24 November

**AUCKLAND** 29-30 November

### FOR MORE INFORMATION CONTACT

**Lisa Banks.**

✉ lisa@nziht.co.nz ☎ 06 759 7065 ext 705.

# BRIDGE AND OTHER SIGNIFICANT HIGHWAY STRUCTURES INSPECTION

2 DAY COURSE

NEW COURSE

10 PERSON LIMIT  
GET IN QUICK!

**nziht**  
institute of highway technology

**NZ TRANSPORT AGENCY**  
WAKA KOTAHU

Bridges and Other Significant Highway Structures are critical components of the New Zealand Roding Network. Failure to inspect and identify any defects correctly could potentially result in dramatic damage and/or loss of life. This new NZTA endorsed and certified 2 day course covers in depth the requirements outlined in the NZTA policy document S6 'Bridges and Other Significant Highway Structures Inspection Policy'.

Completion of this course will require practical inspection assessment of the course material on Day 2.

## COURSE DATES

Hamilton 23-24 November 2016  
Christchurch 15-16 February 2017



For further details regarding this course please contact Jan Kivell. [E jan@nziht.co.nz](mailto:jan@nziht.co.nz) | [P 06 759 7065](tel:067597065) ext 708.

## TENDERING FOR PROJECTS

### UNDERSTANDING THE PROCESS

#### 1 DAY

PRESENTER **Fiona Knight**

**Winning contracts and evaluating tenders is essential to the continuing viability of any contractor/client.**

It involves an understanding of the issues and requirements of the procurement stage but also the skills and ability to structure the tender not just to be successful but to increase profits as well. If you wish to learn the tendering process, then this course is a must. In addition it is essential for Clients and Consulting Engineers to understand how a tender is structured and presented to

ensure competent evaluation of tenders submitted by Contractors.

**ON COMPLETION PARTICIPANTS WILL HAVE THE KNOWLEDGE TO**

- Understand the purposes, types and methods of tendering
- Prepare a well-balanced tender and unbalanced tender
- Learn a process to achieve consistency in tendering
- Identify where the potential for winning a job may be

- Differentiate between fixed and time related P & G
- Significance of extension of time under NZS3910:2013

#### DATES

**AUCKLAND**

6 December

#### FOR MORE INFORMATION CONTACT

**Lisa Banks.**

[E lisa@nziht.co.nz](mailto:lisa@nziht.co.nz) | [P 06 759 7065](tel:067597065) ext 705.



## OCTOBER – DECEMBER 2016

## CALENDAR KEY

- Confirmed courses, but spaces still available.
- Potential courses still require numbers to run.
- Course is full.

**An Introduction to Materials used for Chipseals** (Half day)

Refer to page 3.

3 October ●	Auckland
Cost (excl GST)	\$480

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

Refer to page 4.

23-24 November	Hamilton
Cost (excl GST)	\$750

**Chipseal Design** (2 days)

Refer to page 3.

4-5 October ●	Auckland
Cost (excl GST)	\$750

**Environmental Risks of Construction** (1 day)*'Preparing you with the on-site essentials'*

Refer to page 2.

27 October	Auckland
23 November	Christchurch
Cost (excl GST)	\$595

**Geomechanics for NZ Roading** (1 day)

Refer to page 2.

19 October	Dunedin
16 November	Hamilton
23 November ●	Christchurch
Cost (excl GST)	\$450

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

Refer to page 2.

16-17 November	Dunedin
6-7 December ●	Wellington
Cost (excl GST)	\$750

**Kerbside Collection Traffic Leader (KCTL)** (half day)

This half day course promotes safe working practices, standards and operating procedures in a mobile waste collection operation. The course will assist with compliance with the Health and Safety in Employment Act. If required by a road controlling authority all new drivers must obtain a Waste Collection Traffic Leader qualification within four months of commencing employment.

6 October	Auckland
17 October	Palmerston North
31 October	Christchurch
Cost (excl GST)	\$250
plus NZTA Registration	\$40

**Level 1 Basic Traffic Controller (TC)** (1 day)

This one day course promotes safe working practices, standards and operating procedures at roadwork sites. This is the NZ Transport Agency (NZTA) Level 1 Basic Traffic Controller (TC), which covers the standards and operating procedures required by the Code of Practice for Temporary Traffic Management (COP/TTM). This course is the pre-requisite for entry requirement for people wanting further training to Level 1 Site Traffic Management Supervisor (STMS) standard of the Code of Practice for Temporary Traffic Management.

13 October ●	Palmerston North
13 October ●	Auckland
21 October	Christchurch
26 October	New Plymouth
27 October ●	Hamilton
15 November	Christchurch
15 November	Lower Hutt
16 November	Auckland
23 November	New Plymouth
29 November	Tauranga

30 November	Palmerston North
8 December	Christchurch
12 December	Auckland
13 December	New Plymouth
Cost (excl GST)	\$345
plus NZTA Registration	\$40

**Level 1 Site Traffic Management Supervisor (STMS)** (2 days)

This two-day course provides training to the requirements of the NZTA Code of Practice for Temporary Traffic Management, and covers the new standards and operating procedures for NZTA and Local Authority roads.

11-12 October ●	Lower Hutt
18-19 October	Auckland
19-20 October	New Plymouth
26-27 October	Christchurch
17-18 November	Palmerston North
22-23 November	Christchurch
23-24 November	Auckland
24-25 November	New Plymouth
29-30 November	Hamilton
15-16 December	Lower Hutt
15-16 December	Christchurch
19-20 December	Auckland
Cost (excl GST)	\$495
plus NZTA Registration	\$40

**Microsoft Project – Task Management** (1 day)

This course is designed for new users or basic users of Microsoft Project (MS Project). To increase your understanding and uptake of course material, a working knowledge of Excel would be an advantage.

25 November	Auckland
5 December	Christchurch
Cost (excl GST)	\$520

Calendar continued on next page &gt;

**AUCKLAND BUILD 2016 EXPO** THE LEADING NEW CONSTRUCTION EXPO FOR AUCKLAND AND NEW ZEALAND

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Calendar continued on next page &gt;

**Pavement and Rehabilitation Design**

(2 days)

Since the adoption of the Austroads Pavement Design guide in NZ, pavement and rehabilitation design requires an understanding of mechanistic analysis procedures and the use of the computer program CIRCLY.

18-19 October	Christchurch
23-24 November	Auckland
Cost (excl GST)	\$850

**Refresher – Level 1 STMS and****Refresher – Level 1 Basic TC (1 day)**

Registration for Level 1 Site Traffic Management Supervisor (STMS) and Level 1 Basic Traffic Controller (TC) expires at the end of three years, at which time you will need to attend a one-day one day refresher course to regain this qualification.

14 October	Palmerston North
14 October	Auckland
20 October	Christchurch
27 October ●	New Plymouth
28 October	Hamilton
16 November	Lower Hutt
9 December	Christchurch
13 December	Auckland
14 December	New Plymouth
Cost (excl GST)	\$300
plus NZTA Registration	\$40

**Road Condition Rating – Sealed Roads (2 days)**

Reliable identification of defects is vital to the proper functioning of NZ Transport Agency (NZTA) Road Assessment and Maintenance Management system. NZIHT trains all of this country's road condition raters directly. Successful workshop participants receive a Practising Certificate enabling them to under take condition rating surveys of sealed roads on NZTA funded works on State Highways and Local Authority roads.

1-2 December ●	Christchurch
Cost (excl GST)	\$750

**Slinging, Lifting, Moving and Placing, with and Excavator or Loader (1 day)**

When on the job, there will be times where you need to move or place equipment and there is a right way and a wrong way to do this. Equipment can be large and heavy such as drainage pipes and manholes. To help you, it is important to move and place this large equipment with either a loader or excavator.

The information that is presented to you on course will give you the industry standard on the step you will need to do to get the job done efficiently and safely.

18 October ●	Christchurch
Cost (excl GST)	\$450

**Stabilisation of Road Pavements (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. This workshop provides an overview of the main issues involved with the design and construction of sealed and unsealed pavements using stabilisation.

12 October	Dunedin
17 November	Hamilton
24 November	Christchurch
Cost (excl GST)	\$450

**Stress Free Processes**

(2 days)

The demands of the job often mean late nights "fixing" issues or correcting other people's work so that the customer gets the right result. Sometimes mistakes get through and that leads to even more stress! Effective people fix the problem and avoid having to fix the errors. To others, fixing problems can seem "too hard". On this course you'll be guided through the simple 5 step approach in our highly interactive two day course.

12-13 October	Wellington
23-24 November	Auckland
Cost (excl GST)	\$995

**Supercharged Supervisors Toolkit**

(1 day)

This highly interactive and acclaimed course will address four essentials to the supervisor. What you have to BE, KNOW, DO and LEARN.

18 October	Auckland
27 October	Napier
Cost (excl GST)	\$595

**Survey & Set Out – Stage 1**

(1 day)

The course gives a strong emphasis on understanding construction plans, dimensions, datums, survey marks, accuracies, elevations and layouts to enable all participants to confidently appreciate the works scope and detail.

25 November ●	Christchurch
Cost (excl GST)	\$520

**Tendering for Projects**

(1 day)

Winning contracts and evaluating tenders is essential to the continuing viability of any contractor/client. It involves an understanding of the issues and requirements of the procurement stage but also the skills and ability to structure the tender not just to be successful but to increase profits as well. If you wish to learn the tendering process, then this course is a must.

6 December ●	Auckland
Cost (excl GST)	\$520

**CALENDAR KEY**

- Confirmed courses, but spaces still available.
- Potential courses still require numbers to run.
- Course is full.

**The National Utilities Code – What Site Staff should know**

(1 day)

This course is designed specifically for contractors and utility network staff who install or maintain utility assets in the road and rail corridors to give an overview of the National Utilities' Code.

20 October	Palmerston North
26 October	Tauranga
22 November	Christchurch
28 November	Auckland
Cost (excl GST)	\$450

**Time Mastery**

(1 day)

You have as much time in a day as everyone else does. So what happens to it? This very powerful seminar has participants construct their own personalised Time Management Plan according to their style and work environment.

19 October	Auckland
28 October	Napier
Cost (excl GST)	\$595

**Understanding NZS3910:2013 Conditions of Contract**

(2 days)

Refer to page 3.

23-24 November ●	Christchurch
29-30 November ●	Auckland
Cost (excl GST)	\$750

**Understanding the National Utilities Code**

(2 days)

Refer to page 2.

5-6 October ●	Christchurch
17-18 October	Palmerston North
27-28 October	Tauranga
13-14 December	Invercargill
Cost (excl GST)	\$750

**Working with Concrete**

(1 day)

This course aims to give workers basic knowledge relating to preparing, placing and finishing minor concrete works and the equipment needed to produce quality results.

11 October	Christchurch
27 October	Palmerston North
16 November	Auckland
Cost (excl GST)	\$450



# SHORT COURSE REGISTRATION FORM

I / WE WILL ATTEND THE FOLLOWING NZIHT SHORT COURSE

Please fill details in below.

COURSE NAME

COURSE LOCATION

COURSE DATE

NAME OF PARTICIPANT (1)

NAME OF PARTICIPANT (2)

NAME OF PARTICIPANT (3)

NAME OF PARTICIPANT (4)

ORGANISATION NAME & POSTAL ADDRESS

CONTACT PERSON (All correspondence will be forwarded to the Contact person)

CONTACT'S JOB TITLE

CONTACT'S PHONE NUMBER

CONTACT'S EMAIL

PURCHASE ORDER NUMBER

Course cost \$

Plus 15% GST \$

Cheque enclosed for: \$

Please make payable to NZ Institute of Highway Technology Ltd, or

Please invoice us for: \$

Please charge my credit card: \$

Name on card

Card number

Expiry date / Security Code

3 digit number  
on back of card

## TERMS AND CONDITIONS

**Note:** Late registrations will be accepted if space is available.

**Please note:** Confirmation letters will be sent five working days prior to the course date.

**Cancellations:** Participant withdrawals must be notified in writing. Withdrawals after the close-off date (5 working days prior to the course date) will be charged 50% of the course fee. Non attendance will also be charged the full rate. Substitute participants are welcome. Please refer to our current Training Programme for full registration details and conditions.

Attendee will be responsible for any debt recovery costs on unpaid fees.

The NZIHT reserves the right to alter course dates, postpone or cancel courses due to unforeseen circumstances or where numbers are not sufficient.

Post or email back at least **two weeks prior to the course date:**

### The Course Co-ordinator

New Zealand Institute of Highway Technology Ltd  
P O Box 4273, New Plymouth, 4340

P. (06) 759 7065

E. admin@nziht.co.nz





ENROLMENTS  
ARE OPEN FOR  
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COMMENCING  
FEBRUARY 2017

# CERTIFICATE IN ENGINEERING TECHNOLOGY

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- NZ Diploma in Engineering (Electrical).

## NZ DIPLOMA IN ENGINEERING (CIVIL)

The NZ Diploma in Engineering (Civil) – (NZDE (Civil)), administered by the NZ Board of Engineering Diplomas, is a well established level 6, 240 credit qualification. It is recognised by IPENZ (as fulfilling Dublin Accord requirements) and by InfraTrain as a pre-requisite/co-requisite for the NZDE Practice.

### DELIVERY FORMAT

NZIHT delivers these programmes in part-time format, using Study Blocks in conjunction with self-directed study periods, making it ideal for persons in employment who are looking for part-time study options. This delivery format has grown in popularity and is well supported by industry throughout New Zealand.

There are four block course venues to choose from (numbers permitting) – Hamilton, Auckland, Palmerston North and Christchurch.

## NZ DIPLOMA IN ENGINEERING (ELECTRONICS)

NZIHT has begun the gradual phasing in of the delivery of the "Electronics Specialisation" of this programme. The four courses that are common with NZDE (Civil) are immediately available in all the venues where Civil is offered. The remaining electrical courses will be phased in at a rate dictated by demand.

For further information please contact the Programme & Office Co-ordinator

**EMAIL.** admin@nziht.co.nz **TEL.** (07) 850 8330 **ADDRESS.** PO Box 9296, Waikato Mail Centre, Hamilton 3240

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**nziht**  
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