

TRAINING TALK

TRAINING NEWS FROM THE NEW ZEALAND INSTITUTE OF HIGHWAY TECHNOLOGY OCTOBER 2017



**KEYNOTE
SPEAKERS**

NZ Transport Agency & NZIHT

18th ANNUAL CONFERENCE

6th - 8th November 2017 Trinity Wharf, Tauranga

Stand & Deliver

Making the customer the centre of thinking for the operation of New Zealand roads.



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NOMINATIONS NOW OPEN
www.cirtex.co.nz/2017/09/cirtex-nzde-scholarship/
Winner will be announced at Conference.

Ezio Santagata

Professor, Polytechnic University of Turin, Italy



Ezio Santagata is currently full professor of "Roads, Railways and Airports" in the Politecnico di Torino, Director of the "Road Materials Laboratory" and Scientific Responsible of the High Quality Laboratory denominated "Experimental Laboratory of Innovative and Recycled Materials for Civil Engineering Infrastructures". After obtaining his degree in the University of Ancona (Italy), he was Visiting Scholar at Penn State University (USA) in 1993 and 1995. His research is focused on pavement materials and structures, with an emphasis on laboratory testing of bituminous binders and mixtures. He has published more than 150 scientific and technical papers in national and international journals and conference proceedings. He has been Principal Investigator of several research programs sponsored by private partners, by the Italian Ministry of University and Research, and by the European Commission. He is the member of the Editorial Board of four International Journals. He also acts as a consultant for companies and administrations in the area of pavement engineering and asphalt technology.

ASCO ASPHALT
KEYNOTE SPEAKER SPONSOR

Simon Douglas

National Manager of Policy and Research,
NZ Automobile Association



Simon Douglas is the National Manager of Policy and Research at the NZ Automobile Association. The NZAA has a team of 11 people engaged in research and advocacy work on behalf of its 1.6 million members. Six years ago, in order to bolster the evidence base for the AA's road safety advocacy, the Association established the AA Research Foundation, which Simon manages. In six years the Foundation has

invested over \$1.5m into research in areas as diverse as youth traffic offending, eco-driving, driver risk assessment and speed choice. The Foundation is currently active in projects on cycle safety, understanding serious injury accidents and, in co-operation with five government agencies, has a research project looking at restraint use in cars. Prior to this role Simon has worked for the Ministry of Transport, the Ministry of Tourism, and for Tourism New Zealand.

Hon Ken Shirley

Chief Executive Officer, Road Transport Forum,
since 2010



Ken Shirley became the Road Transport Forum Chief Executive Officer in 2010. A soil and water conservation scientist, he entered Parliament as the Labour MP for Tasman in 1984. He served as the Minister of Fisheries, Associate Minister of Agriculture, Associate Minister of Forestry and Associate Minister of Health. He was an ACT MP and Deputy Leader/Whip from 1996-2005. Ken was Executive Director

of the New Zealand Forest Owners Association between 1990 and 1996. In May 2006 he became the first Chief Executive Officer of Organics Aotearoa, before moving on to head the Researched Medicines Industry Association in 2007. Ken is a member of the Human Rights Review Tribunal and a Director of MITO.

FOR MORE INFORMATION CONTACT Jill Warner, Conference Co-ordinator ☎ 06 759 7065 ext. 709 ✉ jill@nziht.co.nz

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**NZ TRANSPORT
AGENCY**
WAKA KOTAHU



new zealand
nziht
institute of highway technology

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CONTACT Jill Warner

COURSE CALENDAR

October – December 2017	10 - 12
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UNDERSTANDING QUALITY PAVEMENT CONSTRUCTION

2 DAYS

PRESENTER Ian Anderson

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.

TOPICS INCLUDE

- On-site preparation
- Excavation
- Identification of problem areas in subgrade
- Treatment of poor subgrade areas to achieve strength requirements
- Interpretation of material specifications
- Soil properties influencing compaction
- Spreading and placement of aggregate materials

- The relationship between maximum dry density (MDD) and optimum water content (OWC)
- Compaction behaviour of cohesive (clay) soils and non-cohesive (granular) materials
- Compaction assessment (in the field)
- Compaction equipment – types and application
- Grading, trimming, shaping and compaction of final surface
- Surface preparation

DATES

PALMERSTON NORTH 21-22 November

AUCKLAND (confirmed) 23-24 November

CHRISTCHURCH 30 Nov - 1 Dec

FOR MORE INFORMATION CONTACT

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

CONCRETE SAW TRAINING

ON OFFER NOW!

This hands on practical course has been very popular. We are to offer in-house courses for your staff. Contact us for a quotation.

TOPICS INCLUDE

**Safe handling and use • Types of blades
 Maintenance of saws • Environmental issues
 PPE requirements**

**For further details regarding this programme please contact the Programme Coordinator:
 Lisa Banks, lisa@nziht.co.nz or phone 06 759 7065**

CONTACT INFORMATION

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www.nziht.co.nz

Conferences & Specialist Workshops
 Jill Warner – jill@nziht.co.nz
 ext 709

Short Courses
 Lisa Banks – lisa@nziht.co.nz ext 705
 Jan Kivell – jan@nziht.co.nz ext 708

Degree & Diploma
 Jill Warner – jill@nziht.co.nz ext 709

The Diploma of Engineering (Civil)
 Gerhard van der Westhuizen – gerhard@nziht.co.nz
 May Osborne – may@nziht.co.nz

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

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

STABILISATION OF ROAD PAVEMENTS

1 DAY

PRESENTER **Ian Anderson**

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 course provides an overview of the main issues involved with the design and construction of sealed and unsealed pavements using stabilisation.

DATES

AUCKLAND	9 November
WELLINGTON	28 November
CHRISTCHURCH	5 December

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz
📞 06 759 7065 ext 705.

PAVEMENT INVESTIGATION, DESIGN AND CONSTRUCTION TESTING 1 DAY

PRESENTER **Ramiz Iskander**

Understanding the main causes of road pavement failures and especially premature pavement failure is crucial in determining the correct design.

Ensuring that the pavement has been properly constructed is key to performance and longevity of pavements and surfacing.

TOPICS INCLUDE

- Best practice guidelines for pavement investigation and testing
- Pavement testing in the field and in the laboratory
- Pavement analysis using FWD back-calculation
- Pavement Failure Modes/Causes
- Pavement and surfacing design for new roads, widening and rehabilitation
- Flexible and rigid Pavement
- Pavement layers Moduli
- Construction surveillance and testing requirements

ON COMPLETION PARTICIPANTS WILL HAVE THE KNOWLEDGE TO

- Specify right pavement geotechnical investigations
- Understand Pavement Failure Causes
- Ensure that pavements are constructed correctly
- What Moduli to be selected for various pavement layers and materials
- What testing and surveillance is required during and post pavement construction
- Holdpoints during

DATES

AUCKLAND (confirmed)	26 October
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FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz
📞 06 759 7065 ext 705.

PAVEMENT AND REHABILITATION DESIGN 2 DAYS

PRESENTER **John Hallett**

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.

This course covers pavement design and rehabilitation design in accordance with the latest version of the Austroads Pavement Design Guide and the associated NZ Supplement and contains hands-on applications of CIRCLY.

TOPICS INCLUDE

- Fundamentals of mechanistic analysis
- Materials characterisation
- Design traffic determination
- Design procedures for new pavements and rehabilitation treatments
- Hands-on CIRCLY applications

ON COMPLETION PARTICIPANTS WILL HAVE THE KNOWLEDGE TO

- Design new pavements and rehabilitation treatments using

mechanistic analysis in accordance with Austroads and the NZ Supplement requirements

- Appreciate the attributes of CIRCLY and use it for design and analysis of different pavement configurations
- Apply the latest versions of the Austroads Pavement Design Guide and the NZ Supplement

DATES

AUCKLAND (confirmed)	18-19 October
WELLINGTON	14-15 November
CHRISTCHURCH	29-30 November

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz
📞 06 759 7065 ext 705.

INSPECTING ROADS & ESTABLISHING MAINTENANCE NEEDS 1 DAY

PRESENTER **Bill Evans**

This course provides an introduction to the methodology used to inspect and determine road maintenance needs. Employing asset management principles and utilising industry tools, the inspector must then apply skill and knowledge to identify and prioritise maintenance activities, and present cost options balanced against contract conditions and service levels.

DATES

WELLINGTON	18 October
CHRISTCHURCH	25 October
DUNEDIN	22 November

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz
📞 06 759 7065 ext 705.

MICROSOFT PROJECT – TASK MANAGEMENT

1 DAY

PRESENTER Rodney Penney

This course provides a comprehensive introduction to Project Managers, Business Managers, or anyone responsible for scheduling tasks and resources. This intermediate level course gives participants the skills necessary to develop, implement, schedule and manage project plans for roading, bridges, land developments, buildings etc.

Attendees will create a project with a list of tasks, build task relationships, assign resources, manage the project against the Baseline, and use Project views and reports to present information to clients, managers and staff. A working knowledge of Excel would be an advantage.

THIS HANDS-ON COURSE PROVIDES PARTICIPANTS WITH A PRACTICAL UNDERSTANDING OF

- Project Task Management planning skills
- The skills / tools for planning and controlling tasks within projects that will meet the needs of stakeholders

- The rules of project planning
- Tools for managing common tasks
- Current best practices in the project industry

SOME TOPICS INCLUDE

- Navigating project views
- How project holds data
- Mouse and keyboard shortcuts
- Task filtering for information
- Starting a project
- Managing the master calendar
- Entering / editing tasks
- Adding different duration types
- Summary tasks
- Project summary task

- Linking of tasks on the Gantt chart
- Adding lag and lead times
- Understanding constraints / deadlines
- Adding basic resources

DATES

WELLINGTON	7 November
CHRISTCHURCH (confirmed)	15 November
AUCKLAND	20 November
HAMILTON	27 November

FOR MORE INFORMATION CONTACT

Lisa Banks. lisa@nzih.co.nz
06 759 7065 ext 705.

MICROSOFT EXCEL

1 DAY

PRESENTER Rodney Penney

- Are you frustrated with Excel
- Only using 20% of the functionality
- Need Excel to work for you?

This workshop will hone your skills. Move from the basics to the many advanced Excel functions, make Excel work for you. Learn how analysis your data with functions, filters, Pivot tables, charting, navigate large spread sheets, save time, and become a confident Excel user.

WHO SHOULD ATTEND?

Anyone who uses Excel frequently and would like to learn how to get the best from Excel using tips and tricks they have missed. Find out the power of Excel. Guaranteed to improve your Excel skills and productivity particularly if you are self-taught.

DATES

PALMERSTON NORTH	19 October
INVERCARGILL	15 November
HAMILTON	30 November

FOR MORE INFORMATION CONTACT

Lisa Banks. lisa@nzih.co.nz 06 759 7065 ext 705.

MICROSOFT PROJECT – RESOURCE MANAGEMENT

1 DAY

PRESENTER Rodney Penney

This intermediate level course is designed for advanced users who have attended Task Management (pre-requisite) and who need to work with budgets and use resources in detail.

This course will continue on from the Task Management and add the Resourcing components. Manage in detail the project's resources hourly rates, materials and costs; this forms a budget. Manage resource calendars, task types, resource tracking, and resource pool to show against the Baseline.

Attendees will create customised views, tables, details, groups, and filters to view and present project progress.

DATES

WELLINGTON	8 November
AUCKLAND	21 November
HAMILTON	28 November
CHRISTCHURCH	6 December

FOR MORE INFORMATION CONTACT

Lisa Banks. lisa@nzih.co.nz 06 759 7065 ext 705.

SUCCESSFUL PROJECT MANAGEMENT 2 DAYS

PRESENTER **Steven Briggs**

The pace of change means that more and more inexperienced people are being asked to lead projects. The deadlines are often very close; the available resources are limited; and the stresses brought on by the pressure to succeed are intense. The conflicting demands from the day job and the project may be impossible to reconcile. Is it any surprise that 70% of projects fail to deliver in full, on time and within budget?

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.

DATES

WELLINGTON	3-4 October
AUCKLAND	15-16 November
CHRISTCHURCH	29-30 November

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz ☎ 06 759 7065 ext 705.



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.

DATES

PALMERSTON NORTH	25 October
DUNEDIN	23 November
AUCKLAND (confirmed)	12 December
CHRISTCHURCH	13 December

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz
☎ 06 759 7065 ext 705.

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

AUCKLAND (course full)	18-19 October
CHRISTCHURCH (confirmed)	25-26 October
WELLINGTON (confirmed)	8-9 November
DUNEDIN	27-28 November

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz
☎ 06 759 7065 ext 705.



COMPACTION – OPERATOR KNOWLEDGE

HALF DAY

PRESENTER **Stu Moulding** (Civiltrain)

This interactive classroom based course is now seen as a benchmark course in the industry and is often referred to simply as 'the compaction course'.

This course is more than what it seems. There is no waffle – just good sensible training. With decent information on materials (and how to fix up bad materials), compaction gear, gear selection, knowing when to stop, plus a good swag of tricks of the trade to make life easier for your field staff. This course will deliver very positive results for your staff.

We constantly hear that after attending this course, field staff have a better appreciation of what it is they are trying to achieve, how best to achieve it, communicating what they are doing with both the public and engineers, and most importantly, reduced remedials.

SOME TOPICS INCLUDE

- What compaction is
- Sources and types of compaction
- Granular materials (river-run and pit-run)
- Cohesive materials (clay and silt)
- Important field tests to ensure best practice

COMPACTION – ADVANCED KNOWLEDGE

HALF DAY

This interactive classroom based course is a considerable leap above the Compaction – Operator Knowledge course. This is aimed at technical staff such as contracts engineers, graduate engineers etc.

The aim of this course is to give the candidate confidence, especially when engaging with other technical staff. We have an in-depth look at materials and their properties, lab and field testing (and in particular, what the numbers mean, and how best to interpret them), soil mechanics, and how to apply all of this to a typical roading contract.

SOME TOPICS INCLUDE

- What compaction is and the consequences of poor compaction
- Materials used in NZ
- NZ geology and its impact on construction materials
- Soil mechanics including density (OMC/MDD), solid density, air voids, CBR and shear strength

DATES

HAMILTON	10 October
DUNEDIN	11 October
WELLINGTON	18 October

FOR MORE INFORMATION CONTACT

Lisa Banks. 📧 lisa@nziht.co.nz 📞 06 759 7065 ext 705.

ROAD CONDITION RATING – SEALED ROADS

2 DAYS

PRESENTER **Chris Scott**

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 undertake condition rating surveys of sealed roads on NZTA funded works on State Highways and Local Authority roads.

NZIHT welcomes enquiries for training from anyone wishing to be trained as a rater. The Institute maintains a register of currently certified sealed road raters for public inspection and will on request provide details to road controlling authorities prior to acceptance of any professional services tender for road condition rating.

TOPICS INCLUDE

- Condition rating parameters
- Road rating sections and locations
- Defect identification
- Data recording
- Field validation exercises
- Competency assessment for certification

ON COMPLETION OF THIS COURSE PARTICIPANTS WILL HAVE THE KNOWLEDGE TO

- Understand rating parameters
- Identify and locate rating sections and inspection lengths accurately
- Identify rated defects in sealed surfaces
- Accurately measure and record defects in sealed surfaces
- Obtain a practising certificate as an accredited rater

WHO SHOULD ATTEND?

Any person wishing to undertake condition rating surveys on sealed roads for NZ Transport Agency (NZTA) subsidised work.

DATES

CHRISTCHURCH	30 November - 1 December
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FOR MORE INFORMATION CONTACT

Jan Kivell. 📧 jan@nziht.co.nz 📞 06 759 7065 ext 708.

MANAGING INFRASTRUCTURE AFFECTED BY RIVERS

1 DAY

PRESENTER Kyle Christensen

The effective maintenance of a roading network is very dependent on managing the risks associated with erosion and inundation from rivers and streams. This workshop will provide an overview of river and stream processes, hydrological and hydraulic analysis tools, risk management techniques and an outline of protection options.

DATES

AUCKLAND	26 October
INVERCARGILL	15 November
WELLINGTON (confirmed)	30 November

FOR MORE INFORMATION CONTACT

Lisa Banks. lisa@nziht.co.nz 06 759 7065 ext 705.

ENVIRONMENTAL RISKS OF CONSTRUCTION

1 DAY

PRESENTER 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

WELLINGTON	11 October
AUCKLAND (confirmed)	18 October
CHRISTCHURCH	22 November

FOR MORE INFORMATION CONTACT

Lisa Banks. lisa@nziht.co.nz 06 759 7065 ext 705.

ENROL NOW
FOR A 2018 START!

ENGINEER

QUALIFICATIONS WHILE YOU WORK

FEELING LIKE A CAREER CHANGE OR LOOKING TO UPSKILL YOURSELF? GAIN CIVIL ENGINEERING QUALIFICATIONS – WHILE YOU WORK!

The qualifications will be delivered in Auckland, Hamilton, Palmerston North and Christchurch – unless otherwise stated right. Learn with us in a Block Format, which involves face-to-face delivery in a classroom with a tutor, along with some self-directed study in your own time.

QUALIFICATIONS AVAILABLE ARE

NZ DIPLOMA IN ENGINEERING (CIVIL) – Level 6

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

NZ DIPLOMA IN ENGINEERING (ELECTRONICS) – Level 6

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 electronics courses will be phased in at a rate dictated by demand. Electronics courses will be run subject to sufficient numbers.

GRADUATE DIPLOMA IN ENGINEERING (HIGHWAYS) – Level 7 *(Delivered in Hamilton only)*

The Graduate Diploma in Engineering (Highways), one year (full time equivalent), 120 credit qualification designed to provide holders of civil engineering qualifications an opportunity to acquire technical knowledge of applied management.

CERTIFICATE IN ENGINEERING TECHNOLOGY – Level 4

60 credit certificate providing a choice of three areas to study:

- Core Engineering
- Highway Engineering
- Civil Engineering

This is a good foundation for further engineering studies at higher levels:

- NZ Diploma in Engineering (Civil) and
- NZ Diploma in Engineering (Electronics)

NZ CERTIFICATE IN INFRASTRUCTURE WORKS (Level 2)

This is a **fee free 41 credit programme delivered over 20 weeks. This involves five blocks of classroom training (total 7 days).

NZ CERTIFICATE IN INFRASTRUCTURE WORKS (Level 3)

This is a **fee free 56 credit programme delivered over 20 weeks. This involves five blocks of classroom training (total 9 days).

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

EMAIL. admin@nziht.co.nz **HAMILTON OFFICE.** (07) 850 8330 **NEW PLYMOUTH OFFICE.** (06) 759 7065

Make it Happen.

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BRIDGE INSPECTION & MAINTENANCE PROCEDURES

2 DAYS

PRESENTER **Dave Charters**

Bridges are valuable assets, which must be maintained and managed if they are to remain functional at optimal cost through their design life.

Defects do occur which require attention during the life of a bridge. Some bridge components have a design life less than that of the bridge and require periodic replacement.

Natural events such as floods and earthquakes cause damage. The bridge corrosion environment can affect durability and must be recognised. These areas must be addressed and appropriate maintenance carried out to ensure continued public safety as well as to maintain the asset and minimise repair costs.

DATES

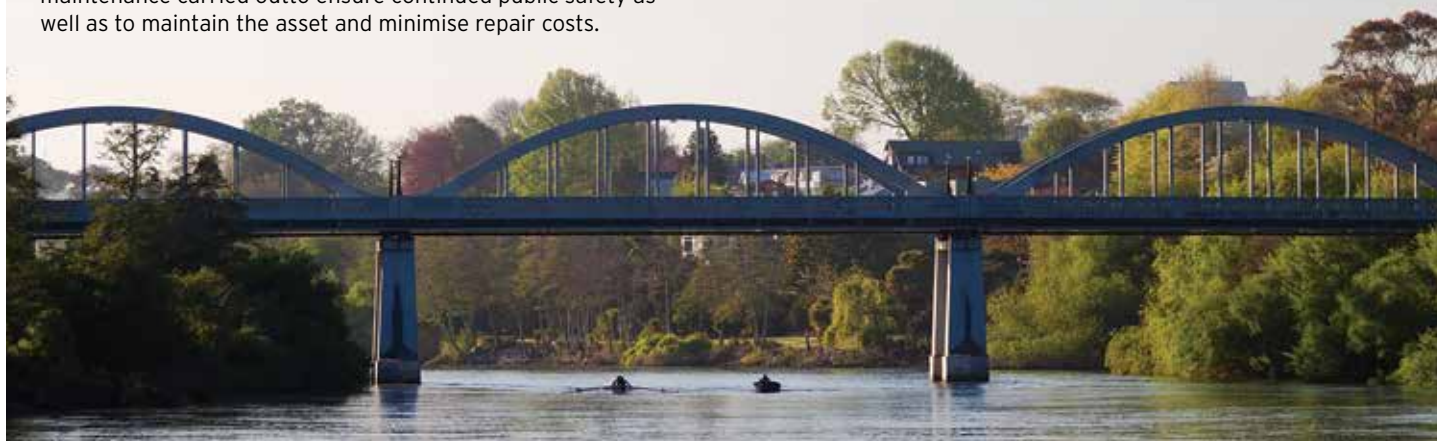
AUCKLAND

18-19 October

FOR MORE INFORMATION CONTACT

Jan Kivell.

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



BRIDGE AND OTHER SIGNIFICANT HIGHWAY STRUCTURES INSPECTION

**NEW
DATE
ADDED**

NEW COURSE

**10 PERSON LIMIT
GET IN QUICK!**

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institute of highway technology

**NZTRANSPORT
AGENCY**
WAKA KOTAHĪ

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

Auckland (confirmed)
Christchurch

16-17 October
28-29 November



For further details regarding this course please contact Jan Kivell. ✉ jan@nziht.co.nz | ☎ 06 759 7065 ext 708.

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

Asphalt Production Essentials

(1 day)

Asphalt hot mix is a more important part of the New Zealand construction industry. As plants become more automated and controlled the emphasis on operation is firmly on safety and quality. Different plants have different operation and control procedures but this course concentrates on the practicality of using the tools to make quality mix for clients that can be laid to a durable pavement surfacing or full depth asphalt construction.

20 November Christchurch
Cost (excl GST) \$520

Bridge Inspection and Maintenance Procedures (2 days)

Refer to page 9.

18-19 October Auckland
Cost (excl GST) \$795

Bridge and Other Significant Highway Structures (2 days)

Refer to page 9.

16-17 October ● Auckland
28-29 November Christchurch
Cost (excl GST) \$1,050

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. 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.

3-4 October ● Auckland
Cost (excl GST) \$795

Compaction – Advanced Knowledge (half day)

Refer to page 6.

10 October Hamilton
11 October Dunedin
18 October Wellington
Cost (excl GST) \$395

Compaction – Operator Knowledge (half day)

Refer to page 6.

10 October ● Hamilton
11 October Dunedin
18 October Wellington
Cost (excl GST) \$395

Competent Pipeline Rehabilitation (1 day)

Lining of ruptured underground drains and ducts provides a cost effective, less disruptive method for rehabilitation of the service. This course will provide an insight into the range of drains and service ducts that may be suitable for rehabilitation by relining.

We will also be covering surveying, cleaning and assessment of failed drains and ducts, selection of rehabilitation methods and materials. Key safety aspects of materials use and installation.

9 November Hamilton
15 November Palmerston North
22 November Christchurch
Cost (excl GST) \$450

Conflict Management Skills

(2 days)

This course will help you improve productivity and engagement. It will result in better collaboration and trust throughout teams, clients, contractors and the wider organisation. Gain effective skills to support better communications, projects and improve your working relationships.

24-25 October Christchurch
20-21 November Tauranga
5-6 December Wellington
Cost (excl GST) \$750

Construction and Maintenance of Road Drainage Systems

(1 day)

Competent supervision skills are essential in producing a final product that meets all design and specification requirements. High levels of productivity can be achieved through the effective and efficient use construction techniques, gained through a combination of knowledge, good planning and organisation skills which best utilises the resources available to the supervisor.

8 November Auckland
16 November Palmerston North
23 November Dunedin
Cost (excl GST) \$450

Effective Leadership

(2 days)

The most common reason employees give for leaving their job is their leader / manager. Failing to inspire or engage with the team results in poor performance and all the issues that generate as a result.

This course will help you learn how to lead yourself and your team, focus on the important things and develop strategies for dealing with everyday events. We appreciate the time pressure that everyone works under and so we give insights into effective processes that will yield results quickly, rather than theories that are difficult to put into practice.

10-11 October Wellington
17-18 October Auckland
Cost (excl GST) \$995

Environmental Risks of Construction (1 day)

Refer to page 7.

11 October Wellington
18 October ● Auckland
22 November Christchurch
Cost (excl GST) \$595

Geomechanics for NZ Rooding

(1 day)

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.

8 November Auckland
29 November Wellington
6 December ● Christchurch
Cost (excl GST) \$450

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 2009 Austroads guidelines.

15-16 November Auckland
29-30 November Wellington
5-6 December Christchurch
Cost (excl GST) \$750

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.

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

Inspecting Roads and Establishing Maintenance Needs

(1 day)

Refer to page 3.

18 October Wellington
25 October Christchurch
22 November ● Dunedin
Cost (excl GST) \$450

Level 1 Basic Traffic Controller (TC)

(1 day)

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).

3 October ● Palmerston North
5 October Hamilton
11 October ● New Plymouth
12 October ● Nelson
16 October Napier
18 October ● Christchurch
25 October Auckland

Calendar continued on next page >

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

25 October ●	Lower Hutt
2 November	Rotorua
7 November	Dunedin
15 November	New Plymouth
22 November	Whanganui
28 November	Christchurch
29 November	Auckland
6 December	Lower Hutt
12 December	New Plymouth
13 December	Christchurch
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.

9-10 October	New Plymouth
12-13 October	Taupo
18-19 October	Whanganui
26-27 October ●	Auckland
30-31 October ●	Lower Hutt
7-8 November	Palmerston North
8-9 November	Hamilton
13-14 November	New Plymouth
20-21 November	Napier
21-22 November	Christchurch
27-28 November	Auckland
4-5 December	Rotorua
7-8 December	Dunedin
18-19 December	New Plymouth
Cost (excl GST)	\$545
plus NZTA Registration	\$40

Maintenance & Safe Use of Small Plant & Machinery (1 day)

Power tools, generators, rollers, screeds and other small machines are basic equipment used in the everyday operation of any roading or civil contracting company.

19 October	Wellington
26 October	Christchurch
Cost (excl GST)	\$450

Managing Infrastructure Affected by Rivers (1 day)

Refer to page 7.

26 October	Auckland
15 November	Invercargill
30 November ●	Wellington
Cost (excl GST)	\$695

Microsoft Excel (1 day)

Refer to page 4.

19 October	Palmerston North
15 November	Invercargill
30 November	Hamilton
Cost (excl GST)	\$520

Microsoft Project – Resource Management (1 day)

Refer to page 4.

8 November	Wellington
21 November ●	Auckland
28 November	Hamilton
6 December	Christchurch
Cost (excl GST)	\$520

Microsoft Project – Task Management (1 day)

Refer to page 4.

7 November	Wellington
15 November ●	Christchurch
20 November ●	Auckland
27 November	Hamilton
Cost (excl GST)	\$520

Microsoft Word – Documents (1 day)

'Preparing you to create better documents'

This course is designed for Word users from basic to intermediate who need to be efficient with creating documents for tenders, health and safety, contracts, business proposals. This course will develop Word documents to an advanced level using many automation aspects of Word. Win more tenders, contacts with consistent, clear and well formatted files.

18 October	Wellington
16 November	Invercargill
29 November	Hamilton
Cost (excl GST)	\$520

Pavement Investigation, Design and Construction Testing (1 day)

Understanding the main causes of road pavement failures and especially premature pavement failure is crucial in determining the correct design. Ensuring that the pavement has been properly constructed is key to performance and longevity of pavements and surfacing.

26 October ●	Auckland
Cost (excl GST)	\$995

Pavement and Rehabilitation Design (2 days)

Refer to page 3.

18-19 October ●	Auckland
14-15 November	Wellington
29-30 November	Christchurch
Cost (excl GST)	\$995

Refresher – Level 1 STMS (1 day)

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

4 October	Palmerston North
6 October	Hamilton
12 October ●	New Plymouth
17 October	Napier
19 October ●	Christchurch

3 November	Rotorua
8 November	Dunedin
16 November	New Plymouth
23 November	Whanganui
29 November	Christchurch
30 November ●	Auckland
7 December	Lower Hutt
13 December	New Plymouth
14 December	Christchurch
Cost (excl GST)	\$345
plus NZTA Registration	\$40

Reinstatement of Service Trenches (1 day)

Avoid costly rework to suburban service trenches. Rough surfaces increase road user costs. Over recent years many roading authorities have reported instances of poor trench reinstatement that gave rise to road surfacing problems.

19 October	Christchurch
20 October	Auckland
16 November	Palmerston North
Cost (excl GST)	\$450

Road Condition Rating – Sealed Roads (1 day)

Refer to page 6.

30 Nov – 1 Dec ●	Christchurch
Cost (excl GST)	\$795

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.

10 October	Tauranga
17 October	Invercargill
26 October	Palmerston North
Cost (excl GST)	\$450

Slings, 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. 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.

12 October	Auckland
25 October	Napier
15 November	Christchurch
Cost (excl GST)	\$450

Stabilisation of Road Pavements (1 day)

Refer to page 3.

9 November ●	Auckland
28 November	Wellington
5 December	Christchurch
Cost (excl GST)	\$450

Calendar continued on next page >

CALENDAR KEY

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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
26-27 October	Tauranga
Cost (excl GST)	\$995

Successful Project Management

(2 days)

Refer to page 5.

15-16 November ●	Auckland
29-30 November	Christchurch
Cost (excl GST)	\$995

Supercharged Supervisors Toolkit (1 day)

Get the job done, on time, to specifications and to budget. This requires Supercharged Supervisory skills. This highly interactive one day course will address four essentials to the supervisor.

- What you have to BE
- What you have to KNOW
- What you have to DO
- What you have to LEARN

16 November	Christchurch
21 November	Wellington
28 November	Hamilton
Cost (excl GST)	\$595

**Survey & Set Out**

(1 day)

This is a practical course that excites and enables all field staff to read and interpret plans and assist with survey and setting out activities. 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. Basic measurements, offsetting and marking out for construction works are discussed and demonstrated.

17 November	Dunedin
24 November	Wellington
4 December	Auckland
8 December ●	Christchurch
Cost (excl GST)	\$595

Tendering for Projects

(1 day)

Refer to page 5.

25 October	Palmerston North
23 November ●	Dunedin
12 December ●	Auckland
13 December	Christchurch
Cost (excl GST)	\$520

Understanding NZS3910:2013 Conditions of Contract (2 days)

Refer to page 5.

18-19 October ●	Auckland
25-26 October ●	Christchurch
8-9 November ●	Wellington
27-28 November	Dunedin
Cost (excl GST)	\$750

Understanding Quality Pavement Construction (2 days)

Refer to page 2.

21-22 November	Palmerston North
23-24 November ●	Auckland
30 Nov-1 Dec	Christchurch
Cost (excl GST)	\$750

Understanding the National Utilities Code (2 days)

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.

9-10 October	Invercargill
26-27 October	Napier
14-15 November	Hamilton
21-22 November	Christchurch
29-30 November	Auckland
6-7 December	Wellington
Cost (excl GST)	\$750

Working with Concrete – Basic Skills

(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.

14 November	Auckland
22 November	Wellington
Cost (excl GST)	\$450

