



June 2011

**TRAINING TALK**  
TRAINING NEWS/UPDATES FROM THE NEW ZEALAND INSTITUTE OF HIGHWAY TECHNOLOGY

# WINTER MAINTENANCE SYMPOSIUM



**3-5 JULY 2011**  
MILLENNIUM HOTEL | QUEENSTOWN



The last Winter Maintenance Symposium was held in 2003 in Christchurch. The purpose of this symposium is to examine current needs, and to consider future strategies. Considerable technical progress has been made both in New Zealand and overseas since 2003. This time Queenstown will host this event and we invite you to join us in the "Winter Wonderland" of New Zealand to participate in this exciting and informative event.

**KEYNOTE SPEAKER**



## → STEPHEN SMYTH

WINTER SERVICE MANAGER, NATIONAL ROADS AUTHORITY IRELAND

Stephen Graduated from the University of Strathclyde in Glasgow in 1996 with a degree in Civil Engineering.

He began his career working as a member of a Resident Engineering team on site investigation and construction contracts for national road motorways in the republic of Ireland.

In 2002 Stephen joined the National Roads Authority in Ireland working initially in the engineering standards division and in 2005 moved to the Network Operations section.

Since 2005 Stephen has been responsible for the annual winter service programme for the 5,500 km network of national roads in Ireland.



## → PETER HOLLINGSWORTH

Peter has worked in the meteorological industry for approaching

30 years. He joined the UK Met Office as an "Assistant Scientific Officer" in 1983.

In 2004, Peter was instrumental in bringing on board one of Metra's largest contracts and that was the service to the BBC, not many people know that the mighty BBC use Metra and MetServices excellent weather graphics tool "Weatherscape" on all of their broadcast platforms, so if you are watching the BBC on TV or online and you see weather, it is driven by a graphics package built and supported from right here in New Zealand.

Peter is now the commercial manager in charge of New Zealand B2B sales and sees a bright future for business in New Zealand with growth in the commercial sector in almost all sectors.



## → KEN SHIRLEY

Ken Shirley became the Road Transport Forum Chief Executive Officer in July 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 before the Labour Government lost power in 1990.

A foundation member of the ACT Party and Deputy Leader/Whip from 1996-2005.

In May 2006 he became the first Chief Executive Officer of Organics Aotearoa NZ which aims at making organics a \$1 billion industry by 2013, 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 GNS Science.



## → DR. JORDY HENDRIKK

Jordy is the new Director of the Snow & Avalanche Laboratory

and an Assistant Professor in the Department of Earth Sciences at Montana State University. Jordy has undertaken research on snow, glaciers, avalanches and climate change around the world, and has considerable experience with applied research and road avalanche programmes.

Jordy has worked with on-snow vehicle testing operations and has mapped and assessed the hazard for several avalanche prone roads.

Prior to working for Montana State University, Jordy worked as a Snow and Ice Scientist at NIWA (National Institute for Water and Atmospheric Research) in Christchurch, New Zealand.



→ FIND INSIDE

PROGRAMME

MILFORD RD BUS TOUR

REGISTRATION DETAILS

NEW PLYMOUTH OFFICE:  
HAMILTON OFFICE:  
SHORT COURSES:

CONFERENCES AND SPECIALIST WORKSHOPS:  
WEBSITE:  
FOR DEGREE/DIPLOMA:  
THE DIP ENG (CIVIL):

CERT IN CIVIL INDUSTRY (INTRODUCTORY SKILLS):

Phone 06 759 7065  
Phone 07 839 2787  
Lisa Knowles  
Jan Kivell  
Jill Warner  
www.nziht.co.nz  
Jill Warner  
Clarence Morkel  
May Osborne  
admin@nziht.co.nz

Fax 06 759 7066  
Fax 07 839 2787  
lisa@nziht.co.nz  
jan@nziht.co.nz  
jill@nziht.co.nz  
jill@nziht.co.nz  
clarence@nziht.co.nz  
may@nziht.co.nz

Email clarence@nziht.co.nz  
ext 705  
ext 708  
ext 709  
ext 709



NZIHT would like to announce the inclusion of the Milford Coach Tour in the programme for the 2011 Winter Maintenance Symposium. This is an optional tour included in your registration fee as a delegate. This Day tour will depart from Queenstown (approx 7am) on Sunday 3 July returning to Queenstown in the late afternoon in time for the Welcome Cocktail party and registrations at the Millennium Hotel from 6pm.

### → SITES, SIGHTS, TOUR, EXPLORE

This is a great opportunity to see winter maintenance processes, treatments and operations in the uniquely beautiful but challenging environment of Milford. Those attending will have an opportunity to visit the 7 day operations at Te Anau then travel along the stunning Milford Road. Enjoy this world class breathtaking backdrop while stopping at sites along the way. Lunch will be provided, before heading to the Cleddau Construction site for a site tour.

**LIMITED NUMBERS - BE IN QUICK TO SECURE YOUR SEAT**

The Milford Bus Tour is proudly sponsored by 'Downer'



### → PROPOSED ITINERARY *(subject to weather)*

- 7 Day Operations Te Anau
- Office and Operations including supporting systems and equipment
- Training material
- Alliance Frame Work for the contract
- Sites on the Milford road
- Milford Tunnel
- Cleddau Construction and site tour

\* This trip is subject to weather and operational requirements. If it is snowing it is likely the trip will change or be cancelled.

#### FOR FURTHER INFORMATION PLEASE CONTACT

Jill Warner, Symposium Co-ordinator  
 NZ Institute of Highway Technology  
 Ltd, PO Box 4273, NEW PLYMOUTH  
 PHONE 06 759 7065 ext. 709  
 FAX 06 759 7066  
 EMAIL [jill@nziht.co.nz](mailto:jill@nziht.co.nz)  
 Visit our website at [www.nziht.co.nz](http://www.nziht.co.nz)



## Preparing for the Future



While the economy remains shaky, there are some clear indications that we will be seeing some improvements in the near and distant future. Certainly we will not see a tremendous rebound that we have often seen in past recessions, and any rebound will not be quick. Barring any dramatic and unforeseen calamities, however the rebound will come. This means that those organisations that are preparing now will be in the best position to take advantage of the future. But what should organisations be preparing for? We believe that there are two key issues that organisations need to be working on right now: creating employee engagement; and developing future leadership.

Having good employees who are committed and focused on your organisation's goals, are important at any time, but even more so in these challenging times. Most organisations are still struggling to find good employees. In addition, many employees are already making plans to leave their organisation once the economy looks like it is beginning to get better. So how are you going to keep your best employees?

## Leadership Development

The predictions are that over the next five years organisations are going to see a huge number of their current leaders beginning to leave their organisations, and most organisations have not begun to develop future leaders to replace them. Unfortunately, many of those organisations that are expending resources are probably only throwing their money away.

Of course, both of these issues go hand in hand. You don't have engaged employees without having leadership at all levels who are focused on engaging employees. Those organisations that have managers at all levels who are focused on engaging employees are the organisations that are more successful at achieving their goals.

Whether you utilize our programmes, those of others, or create your own, make sure that your programs are helping your organisation focus on the Essential Elements of High Performance, as these will help you create a culture that engages employees, encourages Leadership, and achieves performance. You can learn more about how we can work with you to achieve this by contacting us. We will set up a time for a discussion with our presenter, Bruce Thomson, around how we can get your organisation meeting its strategic objectives.



Also see the following short courses that Bruce Thomson presents for NZIHT:

- Leadership Training
- Supercharged Supervisors Toolkit

For further information contact Lisa Knowles email: [lisa@nzih.co.nz](mailto:lisa@nzih.co.nz)

## SUPERCHARGED SUPERVISORS TOOL KIT

Christchurch 7 July

Wellington 23 August

Auckland 6 October

Supervision is the use of leadership, to get the work done, on behalf of your company in the constraints of time, budget and quality and to the satisfaction of the client. It also involves building your team, training and developing its members so that they can achieve the outcome even when you are not there.

### Topics Include:

- How to lead - what you actually do!
- Understanding your own and others behaviour
- What motivation is
- Team Building skills
- Delegation guidelines
- Principles of training
- Briefing and Debriefing your team
- Problem solving
- Being a coach

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**

This course will be of assistance to anyone in Supervision.

For further information please contact Lisa Knowles, details below



## TENDERING FOR PROJECTS (Understanding the process) (1 day)

Winning contracts is essential to the continuing viability of any contractor. It involves not only effective estimation skills and 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.

**15 June  
Auckland**

**1 July  
Wellington**

**13 July  
Christchurch**

### Topics Include:

- Types of contracts (lump sum, measure and value etc.)
- Tender planning
- Material labour, plant and subcontractor unit costs
- Where to price P & G costs, overheads and profits
- Pricing strategies
- Extras and variations
- Weighting of unit rates
- Preliminary and General (P & G) cost (time related and fixed)
- How to calculate on-site overhead and profit percentages and rate per working day
- Front-end loading of tenders
- Alternative tenders

### On completion of this course 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 NZS3910:2003

For further information contact Lisa Knowles, details below.

## ROAD NETWORK CONDITION ANALYSIS (2 DAYS)

**Wellington 16-17 June**

**Auckland 14-15 July**

**Christchurch 11-12 August**

Over the past decade, the use of high speed data collection devices, coupled with the structured storage and access of data has become the norm for many road networks in New Zealand and elsewhere. The ability to utilize this information in an efficient and innovative manner has become an essential requirement for engineers involved in the planning and allocation of resources related to road networks.

This course is designed to equip engineers and analysts with the fundamental understanding and practical skills to analyze and interpret key trends in road network condition and performance. The course introduces the key types of network level condition data, and illustrates, through the use of worked examples, how this data can be effectively analyzed and summarized to facilitate rational decision making and allocation of resources. The course also covers the preparation and analysis of data to support the calibration of network deterioration models.

The course includes computer work in which participants will implement the principles through use of Microsoft Excel macros and the JunoViewer software.

### Topics Include:

- Typical network condition data types and their measurement
- Descriptive statistics and best practices in graphical analysis and reporting
- Structuring your data for analysis- example using Microsoft Access
- Introduction to Excel macros and their use to access and process data
- Key graphs and statistics used to summarize network condition trends
- Determining and analysing deterioration rates and the impact of treatments and how to use this data to support deterioration modelling

For further information please contact Lisa Knowles, details below.



## LEADERSHIP TRAINING (3 DAYS)

Auckland 29-31 August / Christchurch 21-23 September / Wellington 18-20 October

This course is aimed at anybody who is in charge of a work team of any size. It is delivered in an inductive (experiential) format which allows participants to be totally involved in the learning process. The course is high on involvement and equips the participants to take the concepts into the workplace and use them. There is an assessment programme at the end where they, their mentor and their line manager sign off the transfer to work component of the training. In this three day course there is also time to include the DiSC Behavioural Profile Diagnostic. This invaluable tool enables participants to understand themselves, the effect their behaviour has on others and how to create the optimum work environment for each of their direct reports.

DiSC Behavioural profiling links directly to leadership and delegation, communication, feedback, performance management and handling conflict. It therefore provides a base for learning that takes the knowledge gained into attitudinal and behavioural changes by having participants learning the valuable skill of knowing when and how to adapt their leadership behaviour to those they are leading and interacting with at all levels of the organisation.

### Topics include the following Modules:

- Module One - Improving Performance
- Module Two - Learning, Learning how to learn
- Module Three - Communication
- Module Four - Expectations of people
- Module Five - The Leader/Manager concept
- Module Six - Teamwork; Building and maintaining teams
- Module Seven - Motivation
- Module Eight - Conflict management
- Module Nine - DiSC® Workshops
- Module Ten - Performance management
- Module Eleven - Coping & Stress Profile
- Module Twelve - Time Management
- Module Thirteen - Transfer to work

For further information please contact Lisa Knowles, details below.

## BRIDGE INSPECTION & MAINTENANCE PROCEDURES (2 DAYS)

Auckland 6-7 July / Christchurch 28-29 September / Hamilton 19-20 October

Bridges are valuable assets, which cannot be built and then forgotten. Defects do occur which require attention during the life of a bridge. Natural events such as floods and earthquakes cause damage. Some bridge components deteriorate and require replacement within the life of the bridge. The bridge 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.

### Topics include:

- Asset management systems
- The inspection procedure
- Condition assessment for common bridge materials
- Repair procedures
- Coatings for steel structures
- Economic evaluation
- Durability and maintenance of bridging materials
- Maintenance requirements
- Waterway, drainage and seismic damage



For further information contact Jan Kivell, details below.

## GEOMETRIC DESIGN FOR ROADS (2 DAYS)

Auckland 7-8 July

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 new State Highway Geometric Design Manual.

### Topics Include:

- Design parameters
- Vertical alignment design
- Speed Parameters
- Horizontal alignment design
- Co-ordination of horizontal and vertical alignments
- Earth work and mass diagram

For further information please contact Lisa Knowles, details below.



## ASPHALT PRODUCTION PLANT OPERATION (2 DAYS)

**Auckland 7-8 June  
Wellington 1-2 August  
Christchurch 12-13 September**

The continued high performance of asphalt surfaces requires consistent quality asphalt mixes to be produced for sustained periods. Losses accruing from stoppages or the removing and relaying of ineffective asphalt materials can be considerable. Thorough product and plant knowledge, coupled with skilled maintenance and operational procedures, is needed for the economical production of asphalt mixes from both fixed and mobile plants.

### Topics include:

- Asphalt products
- Asphalt production plants
- Raw materials
- Operation and maintenance of asphalt plants
- Plant types
- Pre-start checks/start up
- Binder heating and blending
- Aggregate storage
- Cold feed
- Drum mixing
- Batch mixing
- Production monitoring
- Emission control
- Load out
- Emergency first aid.

### Who should attend?

Plant operators and personnel involved in the manufacture of asphaltic concrete production. It is recommended that attendees should also attend the NZIHT 'Bitumen Safety' Course.

**For further information contact Jan Kivell, details below.**

## ASPHALT MIX DESIGN (2 DAYS)

**Wellington 20-21 June  
Auckland 18-19 July  
Christchurch 29-30 August**

Asphalt paving mix design requires a clear understanding of design standards and specification requirements. Design also demands close attention to the details of testing procedures to ensure an economical blend and gradation of aggregates. Durable asphalt mixes must provide for stability, sufficient voids and workability to permit efficient construction.

This course has been updated to include the latest design methods from America and Australia. The methods will include Austroads APRG 18 Selection and Design of Asphalt Mixes and SHRP Superpave Mix Design. This will assist engineers and supervisors in their understanding of the design process and specifications.

### Topics Include:

- Objectives of design mix
- Desirable mix properties
- Design of non-structural mixes
- Designing a mix/practical considerations
- Mix design and procedures
- Performance based specifications
- Quality assurance
- Production testing and interpretation of test results
- Overview of asphalt manufacture and construction techniques.

**For further information contact Jan Kivell, details below.**

## ASPHALT PAVING CONSTRUCTION SUPERVISOR

**Christchurch 6-8 July / Auckland 15-17 August / Wellington 26-28 September**

Asphalt paving construction productivity depends on the smooth running of laying operations and effective contractual relationships. Poor construction practices often lead to surface defects, incorrect layer thickness and shape problems. It is easy to underestimate the costs associated with rework and/or the repair of asphalt surfacing that competent supervision would have avoided in the first place.

### Topics include:

Quality assurance / Contract administration / Site communication / Programming sequences / On and off site organisation / Project control and evaluation of activities / Materials used in paving / Overview of mix design / Pre-sealing site checks / Validating site conditions / Supervision of operations / Field sampling and testing / Traffic control / Health and safety /

### On completion of this course participants will have the knowledge to:

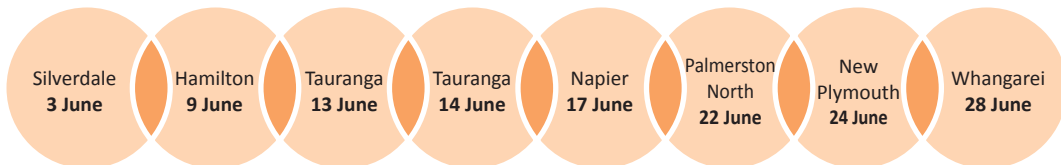
- Apply knowledge of types of bitumen, aggregates, additives and design processes to construction of asphalt pavings
- Check that specified designs remain valid for conditions on site at time of application
- Supervise physical works involved in surface preparation and asphaltic paving construction
- Liaise with client, management, site staff and public during the project
- Deploy personnel, plant and equipment in a productive manner and in compliance with contract requirements

**For further information contact Jan Kivell, details below**



## 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 an essential awareness course for anybody involved in any way with the road surfacing industry and is presented with the aid of graphic practical demonstrations. A special variation of this course “Bitumen - Managing the Risk” is designed specifically for **senior managers, engineers** and **supervisors**. It is a pre-requisite for other advanced courses for those handling, working near, operating or maintaining bitumen equipment or supervising the use of bituminous materials. This course will comply with the Health and Safety in Employment Act and the self-governance “Operate Safe” scheme administered by Roading New Zealand.



### What is the difference between:

Bitumen -  
Basic Safety

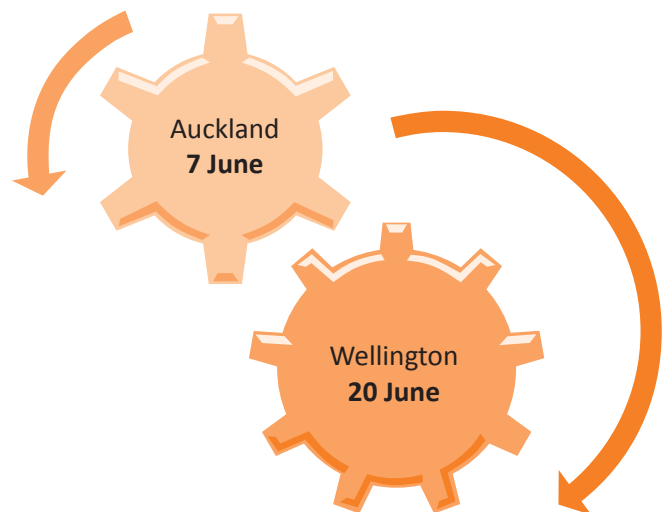
Bitumen -  
Managing the Risk

The “Bitumen - Managing the Risk” course is based on the Bitumen – Basic Safety course, but differs in that it is aimed specifically at managers and puts a “management slant” on bitumen safety issues. Some of the more basic introductory things in the “Bitumen – Basic Safety” course have been removed and been substituted with relevant management issues. There should be no compelling need for those managers who have recently attended the “Bitumen Safety” course to attend the “Bitumen - Managing the Risk” course – although if it is more than 3 - 5 years since they have, then it would be an ideal refresher. However, records show that many middle managers in the road surfacing industry have never attended the “Bitumen - Basic Safety” course, or have attended once, then never re-attended to routinely refresh their knowledge. Further, very few senior managers have ever attended.

## Bitumen – Managing the Risk

This one day course is an essential risk awareness course **targeted** at **senior managers, engineers** and **supervisors** involved in managing businesses or operations that include the storage, transport and production of bituminous materials; and road surfacing works. A separate course “Bitumen - Basic Safety” is intended for all others involved in the roading industry. It is absolutely essential that all those involved in managing or supervising bituminous operations or businesses, fully understand the significant hazards presented by the materials, related plant and equipment, the legislative requirements imposed and the procedures required to adequately manage the many risks involved.

For more information about the above programmes, please contact Jan Kivell:  
Phone: 06 7597065 ext 708  
Email: [jan@nzih.co.nz](mailto:jan@nzih.co.nz)

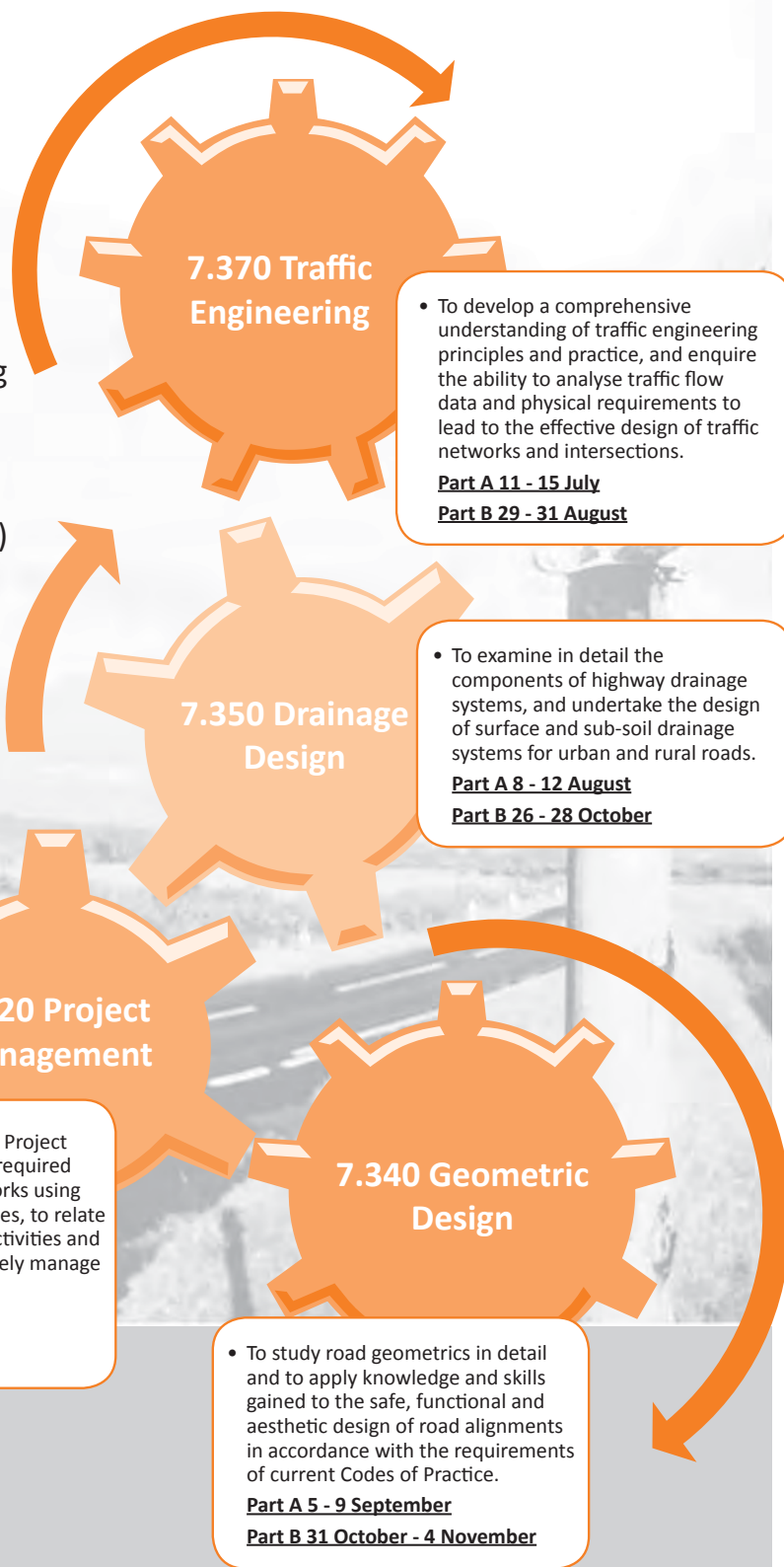


## The Bachelor of Engineering Technology (Highways) and Graduate Diploma in Engineering (Highways)

### ENROLLING NOW for Semester 2

The **Bachelor of Engineering Technology (Highways) and Graduate Diploma in Engineering (Highways)** is offered by NZIHT in association with the Western Institute of Technology at Taranaki (WITT), which is the accredited provider and is structured in a **Study Block Part Time Study Model** making it accessible to persons who are in employment and want a part-time study programme. Applicants may apply to join the BEngTech(Highways) and GradDipEng(Highways) at the start of any term.

**DO IT NOW** and broaden your knowledge of Highway Engineering. To find out more about these two exciting qualifications please contact Jill Warner for an information pack.



#### 7.370 Traffic Engineering

- To develop a comprehensive understanding of traffic engineering principles and practice, and enquire the ability to analyse traffic flow data and physical requirements to lead to the effective design of traffic networks and intersections.

**Part A 11 - 15 July**

**Part B 29 - 31 August**

#### 7.350 Drainage Design

- To examine in detail the components of highway drainage systems, and undertake the design of surface and sub-soil drainage systems for urban and rural roads.

**Part A 8 - 12 August**

**Part B 26 - 28 October**

#### 7.320 Project Management

- To introduce students to the art of Project Management with the knowledge required to plan and implement contract works using programme management techniques, to relate project management to contract activities and to procure, implement and effectively manage civil construction contracts.

**Part A 25 - 29 July**

**Part B 31 August - 2 September**

#### 7.340 Geometric Design

- To study road geometrics in detail and to apply knowledge and skills gained to the safe, functional and aesthetic design of road alignments in accordance with the requirements of current Codes of Practice.

**Part A 5 - 9 September**

**Part B 31 October - 4 November**

For more information please contact

**Jill Warner:**  
**jill@nziht.co.nz**  
**(06) 759-7065**



# Gain the National Certificate in Civil Infrastructure

(General Introductory Skills)

## For only \$120\* + GST

- Attend five blocks off-job (total 8 days over 20 weeks)
- Off job training is included
- Full assessment of unit standards on the NZQA framework

Wellington intake starting 20-21 June  
Other centres on request

Training includes the following blocks:



**\* Only available to NZ Citizens or Permanent Residents of NZ with proof of residency/citizenship.**

For full information please contact the programme co-ordinator:

**Jan Kivell**

NZ Institute of Highway Technology

E: [jan@nziht.co.nz](mailto:jan@nziht.co.nz) P: 06 759 7065 ext 708





# Course Calendar

June - August 2011

KEY: ♦ Confirmed courses, but spaces still available  
♣ Potential courses still require numbers to run

COURSE TITLE	DATE	LOCATION	COST (EXCL GST)
Aggregates for Pavement Construction (1 day)	16 June 29 July	Auckland Palmerston North	\$420.00
An Introduction to Quality Management Systems for the Civil Industry (2 days)	14-15 June 26-27 July 29-30 August	Christchurch Wellington Auckland	\$640.00
Applying Bitumen Emulsions and Polymer Modified Binders (1 day)	1 June	Auckland	\$420.00
Asphalt Mix Design (2 days)	♣ 20-21 June 18-19 July 29-30 August	Wellington Auckland Christchurch	\$640.00
Asphalt Paving Construction Supervisor (3 days)	6-8 July 15-17 August	Christchurch Auckland	\$990.00
Asphalt Production Plant Operation (2 days)	7-8 June 1-2 August	Auckland Wellington	\$640.00
Bitumen – Basic Safety (1 day)	♦ 3 June ♦ 9 June ♦ 13 June ♦ 14 June ♦ 17 June ♦ 22 June ♦ 24 June ♦ 28 June	Silverdale Hamilton Tauranga Tauranga Napier Palmerston North New Plymouth Whangarei	\$420.00
Bitumen – Managing the Risk (1 day)	♦ 7 June ♦ 20 June	Auckland Wellington	\$420.00
Bridge Inspection and Maintenance Procedures (2 days)	♣ 6-7 July	Auckland	\$640.00
Bulk Earthmoving (2 days)	28-29 June 22-23 August	Christchurch Auckland	\$640.00
Civil Construction Supervisor #1 (2 days)	13-14 June 26-27 July 25-26 August	Palmerston North Auckland Christchurch	\$640.00
Civil Construction Supervisor #2 (3 days)	20-22 July 15-17 August	Palmerston North Auckland	\$990.00
Civil Plant Management (2 days)	25-26 July	Auckland	\$640.00
Construction & Maintenance of Unsealed and Forestry Roads (1 day)	14 June 22 July 22 August	Palmerston North Dunedin Auckland	\$420.00
Detection and Protection of Underground Services and Utilities (1 day)	15 June	Christchurch	\$420.00
Drainage Construction Supervisor (1 day)	29 June 14 July 19 August	Christchurch Auckland Wellington	\$420.00
Engineering Properties of Soils (1 day)	21 July	Hamilton	\$420.00
Environmental Management (1 day)	25 July	Auckland	\$420.00
Geomechanics for NZ Rooding (1 day)	24 June	Hamilton	\$420.00
Geometric Design for Roads (2 days)	♦ 7-8 July	Auckland	\$640.00
Health & Safety Part A (1 day)	21 June 29 June	Tauranga Nelson	\$795.00
Health & Safety Part B (1 day)	22 June 30 June	Tauranga Nelson	\$795.00
Inspecting Roads and Establishing Maintenance Needs (1 day)	28 June 12 July	Auckland Palmerston North	\$420.00
Installation & Maintenance of Road Drainage Systems (1 day)	20 June 31 August	Christchurch Auckland	\$420.00
Installation & Maintenance of Roadside Signage (1 day)	30 June 11 August	Wellington Christchurch	\$420.00
Leadership Training (3 days)	29-31 August	Auckland	\$990.00
Level 1 Basic Traffic Controller (TC) (1 day)	1 June 8 June 14 June 21 June 22 June 27 June 6 July 13 July 18 July	Palmerston North New Plymouth Dunedin Christchurch Rotorua Napier Hamilton Lower Hutt Taupo	\$345.00 plus NZTA Registration \$40.00



# Course Calendar

June - August 2011

KEY: ♦ Confirmed courses, but spaces still available  
♣ Potential courses still require numbers to run

COURSE TITLE	DATE	LOCATION	COST (EXCL GST)
	19 July 26 July 3 August 9 August 17 August 25 August 30 August	Auckland Christchurch Tauranga Wanganui Nelson Auckland Christchurch	
Level 1 Site Traffic Management Supervisor (STMS) (2 days)	8-9 June 9-10 June 14-15 June 16-17 June 20-21 June 28-29 June 7-8 July 11-12 July 20-21 July 21-22 July 26-27 July 8-9 August 16-17 August 18-19 August 23-24 August 24-25 August	Invercargill Whangarei Wanganui Christchurch Tauranga Auckland New Plymouth Palmerston North Christchurch Rotorua Napier Hamilton Lower Hutt Taupo Auckland Christchurch	\$495.00 plus NZTA Registration \$40.00
Microsoft Project (1 day)	13 July	Auckland	\$450.00
Refresher – Level 1 STMS and Refresher – Level 1 Basic TC (1 day)	♣ 2 June ♣ 2 June ♣ 9 June ♣ 22 June ♣ 23 June 28 June 7 July 14 July 19 July 20 July 27 July 4 August 10 August 26 August 31 August	Palmerston North Nelson New Plymouth Christchurch Rotorua Napier Hamilton Lower Hutt Taupo Auckland Christchurch Tauranga Wanganui Auckland Christchurch	\$300 plus NZTA Registration \$40.00
Reinstatement of Service Trenches (1 day)	17 June	Auckland	\$420.00
River Protection & Flood Damage (2 days)	♣ 23-24 August	Dunedin	\$640.00
Road Lighting Course A – to AS/NZS 1158 (1 day)	23 August	Wellington	\$420.00
Road Lighting Course B – Design Training (1 day)	24 August	Wellington	\$420.00
Road Network Condition Analysis (2 days)	♣ 16-17 June 14-15 July 11-12 August	Wellington Auckland Christchurch	\$750.00
Road Transportation Engineering (1 day)	22 July	Hamilton	\$420.00
Safety in Trenches (1 day)	24 June 24 August	Auckland Christchurch	\$420.00
Stabilisation of Road Pavements (1 day)	23 June 28 July	Hamilton Palmerston North	\$420.00
Supercharged Supervisors Toolkit (1 day)	7 July 23 August 6 October	Christchurch Wellington Auckland	\$470.00
Survey and Set out Stage 1 (1 day)	♦ 17 June 8 July 12 August	Auckland Christchurch Palmerston North	\$470.00
Tendering for Projects (1 day)	15 June 1 July 13 July	Auckland Wellington Christchurch	\$420.00
Understanding NZS3910:2003 Conditions of Contract (2 days)	♦ 2-3 June 6-7 July ♦ 20-21 July 4-5 August 17-18 August	Hamilton Dunedin Auckland Christchurch Palmerston North	\$640.00
Understanding Quality Pavement Construction (2 days)	11-12 July	Palmerston North	\$640.00

## Short Course Registration Form

Name of NZIHT Short Course: \_\_\_\_\_

Course Location: \_\_\_\_\_ Course Date: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Name and Postal Address of your organisation: \_\_\_\_\_  
\_\_\_\_\_

Contact person: \_\_\_\_\_ Email: \_\_\_\_\_

*All correspondence will be forwarded to the Contact Person*

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Order No: \_\_\_\_\_

**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 page 9 of our 2011 Training Programme for full registration details and conditions.

Course cost \$ \_\_\_\_\_

Plus 15% GST \$ \_\_\_\_\_

Cheque enclosed for: \$ \_\_\_\_\_

*(Please make payable to the NZ Institute of Highway Technology Ltd), or*

Please invoice us for: \$ \_\_\_\_\_

*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 Fax to:

**The Course Co-ordinator,  
New Zealand Institute of Highway Technology Ltd  
PO Box 4273, New Plymouth 4340  
Phone (06) 759 7065, Fax (06) 759 7066**

new zealand  
**nziht**  
institute of highway technology