TRAINGTALK

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

April 2011

STREETS AHEAD IN TRAINING

Inspecting Roads & Establishing Maintenance Needs (1 day)

Christchurch 17 May
Auckland 28 June
Palmerston North 12 July

This course outlines the inspection methodology involved in establishing physical maintenance needs. Having confirmed the needs, the inspector must apply skill and knowledge to identify and report needs, cost options and priorities.

Topics include:

- methods to determine work requirements
- parameters influencing level of activity
- understanding pavement materials and modes of failure
- evaluation options
- prioritising needs
- preparation of future work programmes
- quality

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

- define a pavement management system
- identify failure modes
- identify appropriate remedies
- develop criteria for assessing pavement performance
- prioritise maintenance needs
- implement a maintenance management strategy
- understand the contract process
- prepare future work programmes

For further information contact Lisa Knowles, details below.

Chipseal Design (2 days)

Auckland 5-6 May
Christchurch 9-10 May

Factors affecting the design and the field performance of chipseal surfacings are complex. Local conditions can significantly affect seal design and 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 recently-published textbook "Chipsealing in New Zealand" provide the basis for this course including worked examples. In addition, the practical application of the NZTA P/17 performance-based specification will be covered in detail, including worked examples.

Topics Include:

- Understanding the stresses
- Skid resistance basics
- Assessing chipsealing needs
- Preseal treatments
- Bitumen, emulsions additives, polymers
- Adhesion
- Chip materials and specifications
- Design processes & options
- Worked design exercises
- Types of plant used in chipsealing construction
- Construction of chipseal and reseals
- Analysis of faults, failures & fixes
- Sampling and testing
- Quality assurance
- Contractual responsibilities and procedures for P/17
- Determination of acceptance criteria for P/17
- Acceptance testing for P/17
- Worked P/17 examples

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

- Assess chipsealing needs
- Understand design steps required
- Determine pretreatments required
- Determine appropriate surfacing treatments - including binder and chip application rates
- Calculate hot binder spray rates
- Identify essential spray preparation, spraying control, traffic control and compaction checks to ensure quality of seal
- Select plant for production requirements and job type
- Understand the contractual framework for P/17 contracts
- Determine P/17 acceptance criteria
- Carry out acceptance measurements and apply acceptance criteria to completed chipseals.

For further information contact Jan Kivell, details below.

CHRISTCHURCH EARTHQUAKE UPDATE

All our Civil Diploma courses due to run in Christchurch have now been moved to Dunedin. Please contact our Hamilton Branch for any additional information/questions you may have. may@nziht.co.nz

In recognition of our clients and the people affected by the Christchurch Earthquake NZIHT has made a contribution to the Christchurch relief fund, and in addition would also like to demonstrate our support by dontating a further $10 per registration for every short course run by NZIHT throughout New Zealand from 1 March to 30 April 2011.

Our thoughts and prayers are with all those affected.

new zealand nziht institute of highway technology

www.nziht.co.nz

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CERT IN CIVIL INDUSTRY (INTRODUCTORY SKILLS)
admin@nziht.co.nz

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

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.

On completion of this course participants will have the knowledge to:
- Understand the components of an asphalt production plant
- Have an overview of basic mix design and of different plants and their operation
- Be aware of the physical properties of materials used in the manufacturing of asphalt
- Identify basic operating procedures and safety precautions
- Gain knowledge and competency to operate and maintain plants to produce quality asphalt mixes
- Monitor plant operation and product to industry specifications.

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 Basic Safety' Course.

For further information contact Jan Kivell, details below.

Bridge Inspection & Maintenance Procedures (2 days)

Wellington 18-19 May
Auckland 6-7 July

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.

On completion of this course participants will have the knowledge to:
- Identify the principles of bridge inspection and maintenance
- Carry out bridge inspections under supervision
- Gain an understanding of administration and management systems
- Use the Transit NZ Bridge Inspection and Maintenance Manual to inspect and evaluate bridge conditions and detect faults
- Prepare repair procedures under supervision
- Detect potential instances of bridge failure
- Learn ways to enhance durability of materials used in bridge construction.

Who Should Attend
Engineers and Inspectors with responsibility for inspecting and determining maintenance requirements for both State Highway and Local Authority bridging. New and experienced Bridge Inspectors, Engineers, Technical Staff and Asset Managers wishing to upgrade their knowledge should attend.

For further information contact Jan Kivell, details below.

Bitumen – Basic Safety (1 day)

Invercargill 13 May
Auckland 2 June
Palmerston North 22 June
Dunedin 17 May
Hamilton 9 June
New Plymouth 24 June
Christchurch 23 May
Tauranga 14 June
Whangarei 28 June
Nelson 27 May
Napier 17 June

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 assist with compliance with the Health and Safety in Employment Act and the self-governance Operate Safe" scheme administered by Roading New Zealand.

Topics Include:

- Introduction to bituminous materials including emulsions
- Health hazards, personal precautions
- Hazards when working around bitumen plants and hot-mix plants
- Hazards associated with field operations
- Importance of appropriate training
- Dangers of water
- First aid for bitumen burns
- Dangerous goods, flash point, auto-ignition, safe distance
- Explosion hazards, empty tank hazards
- Maintenance hazards, spillage precautions
- Fire safety including 'hands on' experience in the use of portable fire extinguishers to fight flammable liquid fires
- Miscellaneous associated hazards encountered in the road surfacing industry

For further information contact Jan Kivell, details below.

What is the difference between the Bitumen – Basic Safety and 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.

The Roading NZ Executive Council has identified this as a significant problem, as many of the bitumen-related incidents and accidents that have occurred, have been a direct result of a lack of appreciation by managers of the specific hazards involved and the industry best-practice rules that have been put in place to best manage those hazards. Many of those managers also have demonstrably failed to recognise their very specific obligations and responsibilities under the HSE Act. The course has been put in place in response to specific requests for it from the RNZ Bitumen and H & S committees.

Bitumen – Managing the Risk

Christchurch 24 May
Auckland 7 June
Wellington 20 June

This 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.

Topics Include:

- The RNZ Code of Practice 9904
- Health and safety - summary of risks
- HSE Act - personal responsibility of managers
- Importance of appropriate training
- Hazards of bitumen plants and hot-mix plants
- Hazards associated with field operations
- Dangers of water
- Managing bitumen burns and chemical burns incidents
- Dangerous goods regulations - management responsibilities
- Explosion hazards, empty tank hazards
- Maintenance hazards, spillage precautions
- Managing fire risk
- Miscellaneous associated hazards encountered in the road surfacing industry

For further information contact Jan Kivell, details below.

NEW COURSES

Road Network Condition Analysis (2 days)

Wellington 16-17 June
Auckland 14-15 July

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 analyzing deterioration rates and the impact of treatments and how to use this data to support deterioration modelling

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

- Understand available types of network condition data
- Prepare and structure high speed condition data for in-depth analysis
- Understand the basic structure and use of Excel macros for data analysis
- Calculate and interpret key descriptive statistics used to describe network condition
- Construct and interpret graphs to summarize network condition
- Analyse and document historical condition trends in preparation for deterioration modelling

For further information please contact Lisa Knowles, details below.

Analysis of Pavement Construction Data (1.5 days)

Christchurch 23-24 June
Wellington 21-22 July

Reliable and cost-effective structural pavement design requires an in-depth understanding of many types of materials and road condition data. A modern pavement design practitioner should not only be able to document and interpret this information, but also synthesize data to derive reliable design assumptions.

This course focuses on the holistic analysis, synthesis and documentation of key types of pavement material tests as well as pavement condition data. The course places an emphasis on the way information is synthesized to facilitate rational decision making related to structural pavement design. The course includes computer work in which participants will implement the principles through use of the Rubicon software. This course augments but does not replace the Pavement and Rehabilitation Design short course which focuses on pavement design procedures in accordance with Austroads and the TNZ Supplement, as well as the use of CIRCLY.

Topics Include:

- Overview of the fundamentals of modern pavement analysis and design
- Pavement materials tests and their use
- Pavement condition data types and their use
- Basic principles of Falling Weight Deflectometer (FWD) data analysis
- Backcalculation of layer stiffnesses using FWD data
- Synthesizing pavement condition data to identify uniform subsections and formulate design assumptions
- Effective documentation and presentation of pavement condition data

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

- Interpret most available types of materials and pavement condition data
- Analyze Falling Weight Deflectometer data to support pavement design decisions
- Combine and synthesize different materials and pavement condition data types to identify uniform subsections and derive design assumptions
- Effectively document and present project level pavement condition data

For further information please contact Lisa Knowles, details below.

Civil Construction Supervisor #1

Palmerston North 13-14 June
Auckland 26-27 July
Christchurch 25-26 August

Effective management is essential in minimising downtime and preventing wastage. A Supervisor on a civil engineering project has to manage all the resources that are necessary to complete the work. The resources not only include labour, plant and materials but also covers time and finance. Careful utilisation of all resources is necessary to achieve a successful profitable outcome. This course is aligned to cover a portion of the core compulsory units of the National Certificate in Civil Construction Supervision Level 4.

Topics Include

- Client / Consultant liaison
- Plant and equipment management
- Co-ordination of sub-contractors
- Management of resources
- Drainage and dewatering
- Quality assurance
- Record keeping

For further information please contact Lisa Knowles, details below.

On completion of this course participants will have the knowledge to

- Communicate effectively oral and written instructions and explanations
- Demonstrate leadership skills
- Maintain appropriate on site records (including time sheets, work records, plant and test records
- Document site activities where required
- Comply with legal and statutory requirements
- Select and co-ordinate sub-contractors on a civil construction site
- Liaise with client and consultant and maintain public relations

Upskill to the

National Certificate

in Civil Infrastructure

(General Introductory Skills)

2011 Intakes & start dates:

New Plymouth	April 2011	Christchurch	May 2011
Palmerston North	April 2011	Wellington	June 2011
Auckalnd	May 2011		

BLOCK ONE (2 days off-job training & self-directed study)

- **Basic Worksite Knowledge**
  Unit standards: 6453, 1978, 12382, 17592, 17593, 22283

BLOCK TWO (2 days off-job training & self-directed study)

- **Health & Safety for Civil Construction**
  Unit standards: 6475, 17327, 20868, 20870, 20873

BLOCK THREE (1 day off-job training)

- **First Aid**
  Unit standards: 6401, 6402

BLOCK FOUR (2 day off-job training & self-directed study)

- **Survey & Set Out – Stage 1**
  Unit standards: 6476, 6480

BLOCK FIVE (1 day off-job training & self-directed study)

- **Level 1 Basic Traffic Controller (TC)**
  Unit standards: 5627, 20877, 20878

Advantages of NZIHT delivery:

- **Flexible delivery so students can earn while they learn**
- **20 week programme (eight days off-job training)**
- **We come to your area - saving you on accommodation and travel costs**
- **Learning that can be applied to your workplace**
- **No need to attend off-job training if you have already attended NZIHT short course (*conditions apply)**
- **Ongoing tutor support available**
- **Cost effective: $120 + GST per person for all five (5) blocks (**conditions apply)**

** Unit standards must be registered on the students record of learning, otherwise assessment workbooks will need to be completed.*
***** Only available to NZ Citizens or Permanent Residents of NZ with proof of residency/citizenship.***
The National Certificate in Civil Infrastructure is delivered in association with the Western Institute of Technology at Taranaki (WITT), which is the accredited provider. All academic processes associated with delivery are carried out in accordance with WITT's Quality Management Systems.

For further information contact:
Jan Kivell
NZ Institute of Highway Technology
E: jan@nziht.co.nz P: 06 759 7065 ext 708

new zealand nziht institute of highway technology

Course Calendar

April - June 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)	14 April 19 May 16 June	Wellington Christchurch Auckland	$420.00
An Introduction to Quality Management Systems for the Civil Industry (2 days)	28-29 April 14-15 June	Hamilton Christchurch	$640.00
Analysis of Pavement Condition Data (1.5 days)	23-24 June	Christchurch	$750.00
Asphalt Mix Design (2 days)	20-21 June	Wellington	$640.00
Asphalt Production Plant Operation (2 days)	7-8 June	Auckland	$640.00
Bitumen – Basic Safety (1 day)	13 May 17 May 23 May 27 May 2 June 9 June 14 June 17 June 22 June 24 June 28 June	Invercargill Dunedin Christchurch Nelson Auckland Hamilton Tauranga Napier Palmerston North New Plymouth Whangarei	$420.00
Bitumen – Managing the Risk (1 day)	24 May 7 June 20 June	Christchurch Auckland Wellington	$420.00
Bridge Inspection and Maintenance Procedures (2 days)	18-19 May	Wellington	$640.00
Bulk Earthmoving (2 days)	11-12 April 28-29 June	Wellington Christchurch	$640.00
Chipseal Design (2 days)	♣ 5-6 May 9-10 May	Auckland Christchurch	$640.00
Civil Construction Supervisor #1 (2 days)	13-14 June	Palmerston North	$640.00
Civil Plant Management (2 days)	11-12 May	Palmerston North	$640.00
Construction & Maintenance of Unsealed and Forestry Roads (1 day)	14 June	Palmerston North	$420.00
Detection and Protection of Underground Services and Utilities (1 day)	27 May 15 June	Wellington Christchurch	$420.00
Drainage Construction Supervisor (1 day)	29 June	Christchurch	$420.00
Environmental Management (1 day)	20 May	Wellington	$420.00
Geomechanics for NZ Roading (1 day)	10 May 24 June	Palmerston North Hamilton	$420.00
Health & Safety Part A (1 day)	18 April 5 May 17 May 26 May 21 June 29 June	Hamilton Dunedin Wellington New Plymouth Tauranga Nelson	$795.00
Health & Safety Part B (1 day)	19 April 6 May 18 May 27 May 22 June 30 June	Hamilton Dunedin Wellington New Plymouth Tauranga Nelson	$795.00
Inspecting Roads and Establishing Maintenance Needs (1 day)	17 May 28 June	Christchurch Auckland	$420.00
Installation & Maintenance of Road Drainage Systems (1 day)	11 May 20 June	Wellington Christchurch	$420.00
Installation & Maintenance of Roadside Signage (1 day)	30 June	Wellington	$420.00
Level 1 Basic Traffic Controller (TC) (1 day)	12 April 13 April ♣ 14 April ♣ 19 April 20 April 5 May 10 May 12 May 17 May	Taupo Nelson Hamilton Lower Hutt Auckland Invercargill Whangarei Wanganui Christchurch	$345.00 plus NZTA Registration $40.00

Course Calendar

April - June 2011

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

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

IPENZ Fellows and Achievers Award

Willie Vance (NZIHT CEO) and Clarence Morkel (Academic Programmes Manager) (pictured left), with the Institution of Professional Engineers of New Zealand (IPENZ) Accreditation Certificate for the Bachelor of Engineering Technology (Highways) three year degree which is accredited through the Western Institute of Technology at Taranaki (WITT).

It is delivered in Hamilton on behalf of WITT by the NZ Institute of Highway Technology whose Head Office is based in New Plymouth and is a wholly owned subsidiary company of WITT.

The award was made at the recent IPENZ Fellows and Achievers Awards dinner held at the Amora Hotel, Wellington on Friday 18th March.

CURRENT INNOVATIONS, STRATEGIES, & FUTURE OPTIONS 2011

WINTER MAINTENANCE SYMPOSIUM

*After some confusion as to whether this symposium was to proceed and if it had NZTA backing we are pleased to report that the symposium is **definitely** on and it has the full backing of the NZTA. The NZIHT and the NZTA want the **FULL** support of you, your team involved with winter operations, suppliers and the industry to ensure that the symposium is as good as or better than the great winter symposiums of 1999 and 2003.*

In the last seven years the winter maintenance and operations industry has advanced significantly with many innovations. Furthermore we are now moving into the exciting area of thermal mapping, timely ice prediction and a focus on improved service and the customer.

We urge you all to encourage your teams and suppliers to contribute to the symposium by way of writing papers and attending.

Murray Clarke, (Liaison person for the NZTA with NZIHT)
Willie Vance, (CEO, NZIHT)

A Note from our Business Development Manager...

It is pretty rare these days that companies do not have staff assessment and performance reviews, at least once and sometimes twice a year. Along with company goals and personal KPI's, the assessments are usually tied in with formalising annual budgets that have looked at salary/wage reviews, and identified individuals training requirements for the coming year. This process is generally conducted by the HR Department and/or senior management, and a training plan and schedule is prepared and ideally used as a checklist of courses attended, or completion of training milestones during the year.

So what has this got to do with NZIHT?

One of the hardest things for a service provider to do is determine what services need to be provided to clients. In our case, clients range from large local government bodies, through to a wide range of consulting engineers and an even wider range of contractors – multinational firms through to the one and two man drainage contractor. Our courses and programmes are based on industry requirements, demand, attendance and feedback from our trainees and client companies. To help NZIHT develop and schedule the right course at the right time in the right location, can I make a suggestion? Once you have established your training programme (as noted above), can you please provide NZIHT with a training summary sheet. The information that could be provided would be invaluable, especially when trying to establish courses that are specialised and attendee critical. All would be completely confidential, as the information need not contain staff names or personal details, just a list of courses (based on the NZIHT Training Programme hard copy and website), that you have determined as appropriate, and the number of staff who may attend over a 12 month period. Our Course Co-Ordinators would collate and assess the info, and prepare course schedules that have been based on more accurate numbers. You would then be contacted closer to the course date to confirm and register attendees.

Cancelled courses are damn frustrating for you and for us, I see this as a useful tool to achieving our aim of reducing the number of cancelled courses across the country.

IPENZ FULL ACCREDITATION for Bachelor of Engineering Technology (Highways)

Bachelor of Engineering Technology (Highways)
Graduate Diploma in Engineering (Highways)
Diploma in Highway Engineering

2011 Semester 1 Courses

7.330 Engineering Management (Block A) 6012 Business Management 14 - 18 February	6.300 Pavement Engineering I (Block A) 6009 Pavement Materials & Construction 28 February - 4 March	7.310 Transportation Engineering II (Block A) 6006 Asset Management 14 - 18 March	5.211 Mathematics 2 Part A (Block A) 21 - 24 March	7.360 Pavement Engineering II (Block A) 6011 Pavement Design 28 March - 1 April
6.300 Pavement Engineering I (Block B) 6004 Wearing Surface Technology 11 - 15 April	7.330 Engineering Management (Block B) 18 - 20 April	7.360 Pavement Engineering II (Block B) 2 - 5 May	5.211 Mathematics 2 Part A (Block B) 9 - 12 May	7.310 Transportation Engineering II (Part B) 6003 Road Transport Infrastructure 16 - 20 May

Contact Jill Warner for more details
Email: jill@nziht.co.nz Ph: (06) 759 7065 ext. 709

new zealand nziht institute of highway technology
www.nziht.co.nz

FOR ALL ENQUIRIES: Phone: 06 759 7065, Fax: 06 759 7066
FOR SHORT COURSES: Lisa Knowles : lisa@nziht.co.nz, Jan Kivell : jan@nziht.co.nz
FOR DIPLOMA/DEGREE ENQUIRIES: Jill Warner : jill@nziht.co.nz
www.nziht.co.nz

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

3-5 JULY 2011

MILLENNIUM HOTEL I QUEENSTOWN

Registration Form

Delegate Name _____

Organisation _____

Job Title _____

Postal Address _____

City _____ Post Code _____

Phone _____ Mobile _____

Email _____ Order No _____

Special Diet / Other Information _____

Tick Applicable: *(Full Registration fee includes full attendance and all social functions)*

Earlybird Registration Fee	$670 + gst - Register before 29th April	☐
Full Registration	$740.00 +gst	☐
Sponsor/Exhibitor/Guest - Complimentary		☐

Please indicate functions you will attend:

Welcome Function Sun evening 3rd July		☐
Conference Dinner Mon 4th July		☐
Partner Attending Welcome Function	$30.00 +gst	☐
Partner Attending Conference Dinner	$120.00 +gst	☐
Would you like your name included on the Conference Attendance List?		☐

Payment Details:

☐ Please Invoice

☐ Credit Card (excl amex)

Visa ☐ Mastercard ☐ Name on Card:

Card Number: Expiry:

☐ Cheque in mail

Payable to: New Zealand Institute of Highway Technology, PO Box 4273, New Plymouth 4340, New Zealand

Fax to: 06 759 7066

Email: jill@nziht.co.nz

new zealand nziht institute of highway technology

new zealand nziht institute of highway technology

CURRENT INNOVATIONS, STRATEGIES, & FUTURE OPTIONS 2011

WINTER MAINTENANCE SYMPOSIUM

→ ADVANCE NOTICE

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.

This symposium will focus on the following:

OPERATIONS	→ current road controlling authority policies → incident/hazard management → legal issues → contractual issues
SNOW/ICE CONTROL	→ equipment → methods → innovations
AVALANCHE CONTROL /SLIPS	→ equipment → methods → innovations → safety
DE-ICING/ ANTI-ICING	→ environmental issues → chemicals → equipment → application
SAFETY ISSUES	→ stability of slopes → driving conditions → stabilising slips → accident reduction
CUSTOMER EXPECTATIONS	→ motorists & truck operators → businesses
ROAD WEATHER INFORMATION SYSTEMS	→ equipment → thermal mapping → ice prediction → weather forecasting
VARIABLE MESSAGE SIGNS	→ VMS
ROADS AND PAVEMENT	→ design → construction → markings → signage → surfacings
NEW TECHNOLOGY	→ local → international

3-5 JULY 2011
MILLENNIUM HOTEL
QUEENSTOWN

→ CALL FOR PAPERS

If you are interested in presenting a technical paper for this exciting event, please submit, with a brief bio, an abstract of 200-450 words by 31st March 2011. Please forward to symposium Coordinator (See details below)

→ SYMPOSIUM COST

The cost of the symposium will be $740 + GST ($851 GST Incl.) per delegate, and this includes the functions as set out in the preliminary programme.

→ EARLYBIRD DETAILS

Register before the close of business 29th April 2011 and pay only $670 + GST (Save $70.00!!!)

FOR FURTHER INFORMATION PLEASE CONTACT

Jill Warner, Symposium Co-ordinator
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