

March 2011

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

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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EMAIL jill@nziht.co.nz
Visit our website at www.nziht.co.nz

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):

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ext 709

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



UNDERSTANDING NZS3910:2003 CONDITIONS OF CONTRACT (2 days)

Dunedin 9-10 March (confirmed)
Auckland 23-24 March (confirmed)
New Plymouth 14-15 April
Christchurch 19-20 April

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

Major points covered are:

- Types of contracts
- Contractor and Client obligations
- Role of the Engineer / Engineer's representative
- Variations and how to value them
- Extensions of time and the financial implications to Clients
- Disputes
- Termination of contracts / sub-contracts
- Calculation of percentages for on-site costs, overhead and profit and rate per working day

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

- Use course notes as an up to date reference for managing contracts
- Understand NZS3910:2003
- Be familiar with different types of contracts
- Understand the procedure for lodging claims and the concept of being time-barred and those claims being dismissed as being out of time
- Understand 'extension of time' and associated implications and costs
- Be able to value variations

For further information contact Lisa Knowles, details below.

SURVEY & SET OUT – STAGE 1 (1 day)

Hamilton 25 March
Dunedin 29 April

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. Understanding with field exercises using levelling equipment and level reductions to establish design heights gives field staff new skills. The course reinforces field checking, recording, basic calculations and good survey techniques. Further advanced applications are offered in stage 2.

Topics Include:

- Understanding plans and symbols
- Interpreting constraints and services
- Explaining survey and set out equipment
- Use of levels, digital grade level, tapes and laser levels
- Set out of pegs, profiles, batter boards and stakes
- Location of services
- Reading, recording and reducing level observations
- Construction site survey considerations
- Area and volume calculations

On completion of this course participants should be able to apply knowledge learnt to:

- Set up, read, record and calculate using a level
- Assist a surveyor with planning and preparation work for survey setout
- Assist a surveyor to take field measurements
- Understand construction drawings and their functions
- Locate and identify features on construction drawings
- Investigate services and mark and record them.

Who should attend?

Forepersons, plant operators, technicians, field staff who are required to assist in the set out and maintenance of civil work sites including road works.

For further information contact Jan Kivell, details below.

INSPECTING ROADS & ESTABLISHING MAINTENANCE NEEDS (1 Day)

Wellington 29 March
Christchurch 17 May

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

Who should attend?

Road supervisors, inspectors, engineers and managers responsible for inspecting road networks to establish maintenance needs.

For further information contact Lisa Knowles, details below.

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



ROAD LIGHTING / ROAD LIGHTING DESIGN

Road Lighting Course A - to AS/NZS 1158 (1 day)

- AUCKLAND 6 April
- CHRISTCHURCH 18 May
- WELLINGTON 23 August

Road Lighting Course B - Design Training (1 day)

- AUCKLAND 7 April
- CHRISTCHURCH 19 May
- WELLINGTON 24 August



NZIHT is pleased to announce an extension and continuation of their popular "Road Lighting" training course. This course is particularly relevant for NZ asset owners (Road Controlling Authorities) as it gives a NEW ZEALAND perspective to the International Research on "Why and how we light roads."

NZIHT has recognised that there are significant variables in design methodologies occurring throughout New Zealand and have asked the course presenters to consider the design practicalities to a more detailed level and to demonstrate this with practical examples. Thus the course now has an optional **Night Tour** and a **Design** module added to it.

Road Lighting Course A - to AS/NZS 1158

This one day workshop covers the series of AS/NZS 1158 Road Lighting Standards. The design of lighting for vehicle and pedestrian road users is covered. It allows users to gain full advantage from the broad guidance the Standards now provide. The course will cover the elements of good road lighting design for all parts of the road network using the computer techniques specified in the Standard.

Road Lighting Course B - Design Training

This one day DESIGN seminar allows an exchange of ideas between designers - and outlines a detailed and logical approach to a range of Road lighting design tasks for both Category V and Category P and will provide design solutions for them. It includes the creation and analysis of the lighting design brief, the design solution and the presentation of a report that demonstrates compliance in an "easily understandable way".

Cost of Course

\$420.00 per person + GST for one day (either Road Lighting or Road Lighting Design) or
 \$640.00 per person + GST to attend 2 consecutive days, (i.e.; both Road Lighting and Road Lighting Design Training)
 \$60.00 per person + GST for the Night Tour

Participants are encouraged to bring their own laptops and copies of AS/NZS 1158 series of standards.

For further information contact Jan Kivell, details below

BRIDGE INSPECTION & MAINTENANCE PROCEDURES (2 days)

Dunedin 9-10 March (confirmed)

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.



New Staff Member

We welcome Alan Kemp to the new role of Business Development Manager for NZIHT. Alan comes with many years of experience in business development and senior management roles in the construction and engineering sectors in Australia and NZ. Reporting to the CEO, his role will include maintaining and developing existing client relationships, as well as identifying & exploring opportunities for growth and development in the infrastructure area, and will be targeting new business for NZIHT both nationally and internationally. He will also be researching opportunities in other related engineering and utilities sectors.

Alan will be travelling the length and breadth of the country, so expect a call or visit in the near future.

Alan lives in South Taranaki and has 2 married daughters and 4 grandchildren. He is a keen golfer (a struggling 12 handicapper), and is currently renovating his home in Hawera – which is not a good combination at anytime, ask wife Sherri!

Welcome Alan, from the team at NZIHT.



River Protection and Flood Damage (2 days)

Christchurch 12-13 April
Palmerston North 25-26 May

The maintenance of a highway network is very dependent on the prevention of damage from storm run-off and floods. This course will provide an understanding of flood damage problems, assist in identifying potential failures, provide examples of solutions and give case studies for discussion. There will be an emphasis on the critical elements of bridges, culverts and road structures. This course has been designed in conjunction with the NZ Transport Agency.

Topics include:

- Pier scouring
- Abutment scouring
- Debris build up
- River mis-alignment
- Channel build up/congestion
- Culvert blockages
- Outlet/inlet scouring
- Washouts and dropouts
- Undermining of roadways
- Surface run-off erosion
- Sub-surface saturation
- Surface flooding
- Prevention and protection

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

- Better understand the impact of stormwater runoff and floods on roads
- Identify potential failures of bridges, culverts and road drainage structures
- Develop more effective prevention strategies
- Implement better design solutions
- Target maintenance funding more effectively
- Promptly evaluate and respond to damage.

For further information contact Jan Kivell, 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

Who should attend?

People with limited knowledge of chipseal design and experienced practitioners wishing to update their skills in line with the new approach in the "Chipsealing in New Zealand" textbook and in the application of the P/17 specification. Personnel from Local Authorities, contractors and consultants will find this course particularly useful.

For further information contact Jan Kivell, details below.



Microsoft Project (1 day)

**Christchurch 29 April
Auckland 13 May**

The successful completion of any major project requires careful planning, setting of targets and monitoring of progress achieved at critical stages. This course provides an overview of how computer software can be used as a tool for project management, focusing on highway related projects. Microsoft Project for Windows will be the software used but the skills learned will be applicable to most other PC based project management packages.

If you are a self-taught Project user, this course will help to fill in the gaps in your knowledge and help you use all of the facilities available in Project

Topics Include:

- Project management basics
- Critical path analysis
- Gantt charts and network diagrams
- Defining tasks and relationships
- Linking tasks
- Allocating resources
- Resource levelling
- Monitoring progress
- Reporting and output.

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

- Identify the basic structure of a critical path plan
- Read and interpret Pert and Gantt charts
- Set up a simple project using Microsoft Project
- Allocate resources to tasks
- Monitor and record progress and expenditure
- Print reports and charts.

Who should attend?

Any self-taught Project user who would like to fill in the gaps, understand the things they may have missed and come to grips with the most efficient way of using Project.

For further information contact Lisa Knowles, details below.

Understanding Quality Pavement Construction (2 days)

**Christchurch 16-17 March
Auckland 24-25 May**

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, 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, spreading and placement of aggregate materials, grading, trimming, shaping and compaction of final surface, surface preparation.

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

Prepare roads up to sealing standard, carry out on site preparation, excavate and prepare subgrade, grade, trim, shape and compact soil and aggregate layers, understand the significance of compaction measurement criteria in specifications, interpret compaction specifications and criteria, achieve consistent compaction when preparing basecourse surfaces, sweep basecourse and chipseal surfaces.

Who should attend?

Supervisors, plant operators and field staff who are involved in earthwork and pavement construction projects.

For further information contact Lisa Knowles, details below.



Upskill to the National Certificate in Civil Infrastructure (General Introductory Skills)

2011 Intakes & start dates:

Auckland March 2011
New Plymouth April 2011
Palmerston North April 2011

Christchurch May 2011
Wellington June 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 – Part A

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 (\$138 incl) 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
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institute of highway technology

Turn a Corner in YOUR Career

Bachelor of Engineering Technology (Highways)

Graduate Diploma in Engineering (Highways)

Enrolling now for 2011!!!

IPENZ FULL

ACCREDITATION

A significant achievement for NZIHT during the past year was to be awarded full accreditation for a five year period from the Institution of Professional Engineers of New Zealand (IPENZ) for our Bachelor of Engineering Technology (Highways) three year degree. NZIHT went through a comprehensive accreditation process with the IPENZ appointed accreditation panel and we are pleased to have received this recognition for this degree which is unique in many ways. The degree is successfully delivered in Hamilton through a block course format and is aimed at providing an opportunity for NZDE (Civil) Graduates and Technicians to obtain a three year degree whilst in full time employment. For more information please contact Jill Warner (see details below).

7.330 Engineering Management

- To study management functions and the effect of management on the performance of organisations and the behaviour of people in an organisational setting
Part A 14 - 18 February
Part B 18 - 20 April

6.300 Pavement Engineering I

- To study the materials and construction requirements of road pavements and wearing surfaces including material properties and requirements, construction technology and the design of chip seals and asphalt mixes.
Part A 28 February - 4 March
Part B 11 - 15 April

7.310 Transportation Engineering II

- To study a range of transportation engineering topics including the role and implementation of land transport programmes, project evaluation procedures, quality management systems and asset management practices and systems.
Part A 14 - 18 March
Part B 16 - 20 May

7.360 Pavement Engineering II

- To present an in-depth treatment (advanced applications) of pavement design and pavement rehabilitation design, and to produce designs - both for new pavements and for rehabilitation projects - in accordance with the requirements of current Codes of Practice.
Part A 28 March - 1 April
Part B 2 - 4 May

The Bachelor of Engineering Technology (Highways) and Graduate Diploma in Engineering (Highways) is offered in association with the Western Institute of Technology at Taranaki (WITT) which is the accredited provider and is structured in a Block Course 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.

RAMM Inventory Management (1 or 2 days)

Auckland 14-15 April
Christchurch 23-24 May

Maintaining and validating the data in the RAMM system is an ongoing task. Errors in the original inventory survey, realignment, new roads and other variances all call for updating and modification of data for carriageway, surfacings, pavement, surface water channels, etc. Based on NZ Transport Agency's (NZTA) certification programme, this course uses a hands on approach to solving these problems and collection and entry of valid data.

This workshop covers TWO levels of NZTA certification

- LEVEL 1 (day one): Field Data Collectors
- LEVEL 2 (day two): Database Users

Topics Include:

LEVEL 1 (day one)

Note: Level 1 is a pre-requisite to Level 2

- Principles of asset data
- Inventory assets - theory
- Principles of field work

LEVEL 2 (day two): Field Visit

Pre-Requisite: Participants must attend Level 1 prior to attending Level 2

- Principle of loading data
- Practical examples

Who should attend?

Consultants or RAMM Managers and technicians who are responsible for managing, maintaining and updating the RAMM database.

For further information contact Lisa Knowles, details below.

Stabilisation of Road Pavements Sealed and Unsealed (1 day)

Auckland 29 March
Wellington 13 April

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

Topics Include:

- Why, and when to stabilise
- Investigation and testing
- Alternative stabilising agents, lime or cement, bitumen: factors to consider
- Cement treated basecourse
- Pavement design principles including using AUSTROADS/Circlay
- Planning and economic issues
- Pavement life considerations
- Subgrade, sub-base and basecourse treatment
- Construction basecourse, including compaction
- In-situ stabilisation
- Road rehabilitation, and how stabilisation can help
- Area treatment options
- Use of recycled material
- Seal coat application to stabilised surfaces.

For further information contact Lisa Knowles, details below.

Aggregates for Pavement Construction

Wellington 14 April
Christchurch 19 May

This course identifies the properties and characteristics of aggregates and systems for quarrying, storage, selection and handling, so that these properties are not altered and their quality remains consistent until placements in the pavement. Future performance-based specifications may not be as prescriptive as they have been and this course reflects this.

Topics Include:

- Function of structural layers in a pavement
- Factors controlling performance
- Selection of pavement aggregates - sealed and unsealed pavements
- Role of clay minerals
- Source rock characteristics
- Aggregate production and properties of the product
- Quality assurance/quality control
- Aggregates to meet TNZ M/4 and TNZ B/2 requirements
- Storage, handling and compaction of aggregate for pavements
- Use of marginal and low quality aggregates.

For further information contact Lisa Knowles, details below.





Course Calendar

March - May 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	Wellington Christchurch	\$420.00
An Introduction to Quality Management Systems for the Civil Industry (2 days)	23-24 March 28-29 April	Palmerston North Hamilton	\$640.00
Bitumen – Basic Safety (1 day)	13 May 17 May 23 May 27 May	Invercargill Dunedin Christchurch Nelson	\$420.00
Bitumen – Managing the Risk (1 day)	24 May	Christchurch	\$420.00
Bridge Inspection and Maintenance Procedures (2 days)	♣ 9-10 March 18-19 May	Dunedin Wellington	\$640.00
Bulk Earthmoving (2 days)	11-12 April	Wellington	\$640.00
Chipseal Design (2 days)	5-6 May 9-10 May	Auckland Christchurch	\$640.00
Civil Plant Management (2 days)	23-24 March 11-12 May	Christchurch Palmerston North	\$640.00
Construction & Maintenance of Unsealed and Forestry Roads (1 day)	25 March 18 April	Hamilton Christchurch	\$420.00
Detection and Protection of Underground Services and Utilities (1 day)	18 March 27 May	Auckland Wellington	\$420.00
Drainage Construction Supervisor (1 day)	21 March	Palmerston North	\$420.00
Environmental Management (1 day)	22 March 20 May	Christchurch Wellington	\$420.00
Geomechanics for NZ Rooding (1 day)	10 May	Palmerston North	\$420.00
Health & Safety Part A (1 day)	16 March 18 April 5 May 17 May 26 May	Palmerston North Hamilton Dunedin Wellington New Plymouth	\$795.00
Health & Safety Part B (1 day)	17 March 19 April 6 May 18 May 27 May	Palmerston North Hamilton Dunedin Wellington New Plymouth	\$795.00
Inspecting Roads and Establishing Maintenance Needs (1 day)	29 March 17 May	Wellington Christchurch	\$420.00
Installation & Maintenance of Road Drainage Systems (1 day)	11 May	Wellington	\$420.00
Installation & Maintenance of Roadside Signage (1 day)	30 March	Auckland	\$420.00
Level 1 Basic Traffic Controller (TC) (1 day)	♦ 3 March 7 March 15 March ♦ 17 March ♣ 23 March 25 March 29 March 12 April 13 April 14 April 19 April 20 April 5 May 10 May 12 May 17 May 19 May 26 May	Tauranga Napier Palmerston North Auckland New Plymouth Christchurch Dunedin Taupo Nelson Hamilton Lower Hutt Auckland Invercargill Whangarei Wanganui Christchurch Tauranga Auckland	\$345.00 plus NZTA Registration \$40.00



Course Calendar

March - May 2011

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

COURSE TITLE	DATE	LOCATION	COST (EXCL GST)
Level 1 Site Traffic Management Supervisor (STMS) (2 days)	9-10 March ♣ 15-16 March 22-23 March ♣ 23-24 March 6-7 April 7-8 April 14-15 April 18-19 April 28-29 April 12-13 May 16-17 May 17-18 May 19-20 May 24-25 May	Rotorua Auckland Wanganui Christchurch Tauranga Napier Palmerston North Auckland New Plymouth Taupo Nelson Hamilton Lower Hutt Auckland	\$495.00 plus NZTA Registration \$40.00
Microsoft Project (1 day)	♣ 29 April 13 May	Christchurch Auckland	\$470.00
RAMM – Condition Rating Workshops - (sealed roads) (1 or 2 days)	♦ 1-2 March	Auckland	\$420.00 – one day or \$640.00 – two days
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)	♦ 4 March 8 March ♣ 16 March 24 March 28 March 30 March 13 April 15 April 20 April 21 April 11 May 11 May 18 May 20 May 27 May	Tauranga Napier Palmerston North New Plymouth Christchurch Dunedin Taupo Hamilton Lower Hutt Auckland Whangarei Wanganui Christchurch Tauranga Auckland	\$300 plus NZTA Registration \$40.00
Reinstatement of Service Trenches (1 day)	20 May	Christchurch	\$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)	6 April 18 May	Auckland Christchurch	\$420.00
Road Lighting Course B – Design Training (1 day)	7 April 19 May	Auckland Christchurch	\$420.00
Safety in Trenches (1 day)	28 April	Wellington	\$420.00
Stabilisation of Road Pavements (sealed and unsealed) (1 day)	29 March 13 April	Auckland Wellington	\$420.00
Survey and Set out Stage 1 (1 day)	25 March 29 April	Hamilton Dunedin	\$470.00
Tendering for Projects (1 day)	2 March	Christchurch	\$420.00
Understanding NZS3910:2003 Conditions of Contract (2 days)	9-10 March ♦ 23-24 March ♣ 14-15 April ♣ 19-20 April	Dunedin Auckland New Plymouth Christchurch	\$640.00
Understanding Quality Pavement Construction (2 days)	16-17 March 24-25 May	Christchurch Auckland	\$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
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institute of highway technology

