



October 2011

# TRAINING TALK

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



## KEYNOTE SPEAKERS



**LINDSAY CROSSEN**

Lindsay Crossen is Group Civil Engineer for Fulton Hogan Ltd. Lindsay previously spent eight years as CEO for the NZ part of the Company and nine months as Acting CEO in Australia. Before that he worked eight years as District Engineer for Southland District Council, which has a network of 4500 km of rural roads and a wide range of community utilities.

For the last 25 years he has been involved in getting best value for money for infrastructure sustainability. Lindsay is a past Chairman of ROADING NZ, the industry contracting group with a focus on Building and Maintaining NZ's Land Transport Infrastructure. He was also Chairman of the Northern Gateway Alliance which built the Northern Gateway Toll Road.



**STEVE KILLEEN**

Steve Killeen is Executive General Manager for Downer's Transportation Sector. He has over 20 years experience of successfully delivering infrastructure maintenance and construction projects to achieve client and community outcomes and expectations.

Steve has a passion for collaborative working and driving improvements in safety, customer service, innovation and productivity through teamwork. He has participated in a number of alliance leaderships teams and industry improvement initiatives, including NZTA's current Highways Business Improvement Project.



**KEITH QUINN**

Sporting and Television Personality and Commentary King Keith Quinn's broadcasting career is simply quite exceptional. He has worked for NZBC - TVNZ from January 1965 and for ONE World of Sport since 1973.

But Keith is not limited to the spoken word. He is also a prolific writer and columnist, published in magazines and newspapers around the world, and is the author of 11 books on rugby and sporting matters.

To register online for this conference you can visit [www.nzih.co.nz/nzta2011](http://www.nzih.co.nz/nzta2011) and fill out the registration form or for more information please contact **Jill Warner P: +64 6 7597065 ext 709 E: [jill@nzih.co.nz](mailto:jill@nzih.co.nz)**

## WHAT IS 50M LONG, SLEEPS UP TO 14, COSTS \$50M AND RECENTLY WON A PRESTIGIOUS INTERNATIONAL AWARD IN LONDON?

The answer is 'Zefira'. A 49.7m superyacht built by Fitzroy Yachts in Taranaki.

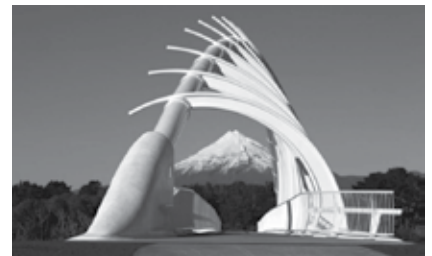


tour will be personally conducted by Fitzroy Yachts owner Peter White-Robinson.

This is a 'must not miss' opportunity that will give you a glimpse of how the rich and famous spend their money. See how the aluminium hulls are fabricated, how the latest gadgets and technology is used in a marine environment, and get an appreciation of the sumptuous living accommodation being fitted to these stunning super-luxury yachts.

**Be quick, as the tour is limited to 45 places only. Please contact Jill Warner for further details or visit our website at [www.nzih.co.nz](http://www.nzih.co.nz)**

Following the tour of the Fitzroy yachts facility, delegates will also have the chance to view another Taranaki icon and award winning structure, the Te Rewa Rewa bridge at Waiwaikaho.



Winner of the International Footbridge Award

Those attending the NZIHT/NZTA conference in New Plymouth on November 6th will have the opportunity to visit the home of Zefira and see her sister-ship under construction at Fitzroy Yachts world class boatbuilding facility in New Plymouth. The

**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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Phone 07 839 2787  
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ext 708  
ext 709

ext 709

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





## SUPERCHARGED SUPERVISORS TOOLKIT (1 DAY)

Christchurch 23 November

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.

**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

**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

**For further information contact Lisa Knowles, details below.**

## ENVIRONMENTAL MANAGEMENT (1 DAY)

Christchurch 7 December

Environmental Management is becoming a major part of the contracting world.

This course will take participants through the role of the statutory bodies for Resource Management, Planning, Processes under the Act, into environmental issues for management.

Civil site-specific requirements will be covered in detail. The daily requirements for the civil workplace under the Act, application and control will be a major part of the course.

**Topics Include:**

- The roll of the Statutory Bodies
- Planning
- Processes under Resource Management Act
- Environmental issues
- Sub-divisional developments
- Coastal environmental issues
- Act amendments
- National environmental standards
- Land Use
- Biodiversity

**Who should attend?**

Consultants, Local Govt, Contract managers. Anyone working in the civil and contracting areas where they need to have understanding of the requirements of the Act and how to work within it.

**For further information contact Lisa Knowles, details below.**



## LEVEL 1 BASIC TRAFFIC CONTROLLER (TC) (1 DAY)

This one day course promotes safe working practices, standards and operating procedures at roadwork sites. This is the NZ Transport Agency (NZTA) Level 1 Basic Traffic Controller (TC), which covers the standards and operating procedures required by the Code of Practice for Temporary Traffic Management (COP/TTM). Appropriately trained and qualified staff must be available to carry out temporary traffic management duties in compliance with the NZTA COP/TTM on all worksites. The course will assist with compliance with the Health and Safety in Employment Act. This course is the pre-requisite for entry requirement for people wanting further training to Level 1 Site Traffic Management Supervisor (STMS) standard of the Code of Practice for Temporary Traffic Management.



### Topics include:

- Health and safety principles
- Principles of temporary traffic management
- Component parts and layout of a worksite
- Setting up and worksite rules
- Authorised sign use
- Temporary traffic management equipment
- Manual traffic control
- Pedestrians and cyclists
- Static operations
- Mobile and semi static maintenance/inspection operations
- Night time protection
- Low Volume Roads
- Implications of Local Roads Supplement

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

- Assist the STMS in the setting up of roadwork sites in accordance with approved Traffic Management Plans
- Develop a consistent approach to traffic control
- Analyse Traffic Management Plans in relation to various roading situations
- Apply exercises in the planning and setting up of roadwork sites to actual roading situations
- Understand the requirements for sign selection, placement, safe operating procedures and worksite protection for Level 1 roads.
- Understand and apply the standards for Local Roads

## LEVEL 1 SITE TRAFFIC MANAGEMENT SUPERVISOR (STMS) (2 DAYS)

The NZTA Code of Practice for Temporary Traffic Management (COP/TTM) requires that appropriately trained and qualified personnel must carry out and supervise Temporary Traffic Management duties on all worksites. The head Traffic Controller is designated the Site Traffic Management Supervisor (STMS).



The STMS has specific duties and has ultimate responsibility for overall traffic management at the worksite. This two-day course provides training to the requirements of the NZTA Code of Practice for Temporary Traffic Management and covers the new standards and operating procedures for NZTA and Local Roads.

### Pre-requisite for entry:

NZTA requires that you must be registered on the NZTA database and hold a current Level 1 Basic TC (or TC Refresher) qualification or have held a Level 1 STMS qualification (at any time) in the past. Please provide your NZTA Photo ID card number on your registration form.

### Topics Include:

- Basic components of a roadwork site:
- Checking Traffic Management Plans provided
- Designing Traffic Management Plans for different work stages
- Setting up, checking and removing roadworks safety measures
- Controlling traffic at a worksite, including Stop/Go operations
- Working safely within the protected area
- Effectiveness of personal protective equipment
- Reporting and recording accidents and crashes
- Plant and work vehicle operation and safety
- Worksite safety audits
- Local Roads supplement

*For dates and locations for TC & STMS courses please refer to the Course Calendar on Page 10*

## REFRESHER LEVEL 1 TC & STMS (1 DAY)

### NZTA Qualification about to Expire? Don't get caught out!!

Check your NZTA photo ID cards for expiry dates. If you have staff with Level 1 TC or STMS qualifications, their ID cards will expire three years from the initial training date. NZTA stipulates that you cannot practice until your qualification is refreshed. NZIHT have NZTA qualified trainers to carry out refresher courses for both of these qualifications at competitive prices.

For dates and locations for all TTM Courses please refer to the course calendar on page 10. If there is not a location that suits, please make sure you contact us as there will be more advertised.

In-house training is available on request for larger groups.

Register early as numbers are limited on these courses, this is to ensure each participant receives quality training.

For further information on any of these courses contact Jan Kivell, details below.



## INSPECTING ROADS & ESTABLISHING MAINTENANCE NEEDS (1 DAY)

Wellington 6 December

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

**Who should attend?**

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

For further information contact Jan Kivell, details below.

# Don't miss out !

Spaces are currently available for advertising your business in our upcoming Training Programme make sure you don't miss out on an excellent marketing opportunity!

The NZIHT Training Programme is used for the delivery of our comprehensive programmes in tertiary education and technical and skills training.

We offer the chance to advertise your company details in a publication that is distributed to around 6000 Stakeholders in the Roding Sector.

**These Spaces are Limited so make sure you secure yours today!**

For more information please email Melanie at [mel@nziht](mailto:mel@nziht) to discuss prices and options available.



# 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

## ENQUIRE NOW FOR 2012 INTAKES

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



## UNDERSTANDING NZS3910:2003 CONDITIONS OF CONTRACT (2 DAYS)

Palmerston North 5-6 October  
Auckland 19-20 October (FULL)  
Christchurch 17-18 November  
Invercargill 23-24 November  
Auckland 30 November – 1 December

**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 please contact Lisa Knowles, details below.

## GEOMETRIC DESIGN (2 DAYS)

Christchurch 1-2 December

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

### Who should attend?

Engineers and pavement designers from Local Authorities, Consulting Engineers and Contractors.

For further information contact Lisa Knowles, details below.



October 2011

## ASPHALT MIX DESIGN (2 DAYS)

Christchurch 21-22 November

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

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

- Identify objectives of mix design and the properties required
- Understand methods for the design of non-structural mixes taking practical considerations into account
- Understand the implications of performance based specifications and quality assurance
- Understand the importance of production testing and interpretation of results
- Have an overview of asphalt plant operations and construction techniques.

### Who Should Attend?

Engineers and supervisors from consulting firms, local authorities and technical staff from contracting firms who are involved in the decision making process for mix types vs location and/or laboratory technicians.

For further information contact Jan Kivell, details below.

## LEADERSHIP TRAINING (3 DAYS)

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

For further information please contact Lisa Knowles, details below.



## PAVEMENT AND REHABILITATION DESIGN (2 DAYS)

Hamilton 29-30 November

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

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

### Topics Include:

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

**NEW DATE  
BY POPULAR  
DEMAND!**

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

- Design new pavements and rehabilitation treatments using mechanistic analysis in accordance with Austroads and the NZ Supplement requirements.
- Appreciate the attributes of CIRCLY and use it for design and analysis of different pavement configurations.
- Apply the latest versions of the Austroads Pavement Design Guide and the NZ Supplement

### Who should attend?

Engineers, managers and technical staff involved in pavement design or in pavement rehabilitation design.

For further information please contact Lisa Knowles, details below.

## GEOMECHANICS FOR NZ ROADING (1 DAY)

Dunedin 6 October

Wellington 12 October

Auckland 2 November

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

### Topics Include:

- Geotechnical engineering and pavement design
- Fundamental soil properties
- Compaction
- Planning geomechanical investigations
- In-situ investigation and testing
- Laboratory testing issues
- Effects and control of water movement
- Soil strength improvement
- Bearing capacity.

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

- Understand the role of engineering judgement to obtain effective solutions to soil mechanics
- Identify fundamental properties of soils
- Plan a geotechnical investigation
- Apply geotechnical investigations to improve pavement construction
- Utilise pavement stabilisation techniques.

For further information contact Lisa Knowles, details below.





# Course Calendar

## October - December 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)	27 October	Hamilton	\$420.00
Asphalt Mix Design (2 days)	21-22 November	Christchurch	\$640.00
Bridge Inspection and Maintenance Procedures (2 days)	19-20 October	Hamilton	\$640.00
Environmental Management (1 day)	7 December	Christchurch	\$420.00
Geomechanics for NZ Roading (1 day)	6 October 12 October 2 November	Dunedin Wellington Auckland	\$420.00
Geometric Design for Roads (2 days)	1-2 December	Christchurch	\$640.00
Inspecting Roads and Establishing Maintenance Needs (1 day)	6 December	Wellington	\$420.00
Leadership Training (3 days)	18-20 October	Wellington	\$990.00
Level 1 Basic Traffic Controller (TC) (1 day)	4 October 5 October 11 October 18 October 26 October 2 November 9 November ♣ 15 November 22 November 23 November 7 December 12 December 15 December 19 December	Christchurch Auckland Lower Hutt Taupo Hamilton Tauranga Nelson Auckland Christchurch Wanganui New Plymouth Napier Palmerston North Auckland	\$345.00 plus NZTA Registration \$40.00
Level 1 Site Traffic Management Supervisor (STMS) (2 days)	11-12 October 13-14 October 19-20 October 26-27 October ♣ 7-8 November 8-9 November 9-10 November 15-16 November 17-18 November 29-30 November 6-7 December 14-15 December 20-21 December	New Plymouth Rotorua Palmerston North Dunedin Christchurch Napier Auckland Lower Hutt Taupo Hamilton Tauranga Auckland Christchurch	\$495.00 plus NZTA Registration \$40.00
Pavement and Rehabilitation Design (2 days)	29-30 November	Hamilton	\$750
Refresher – Level 1 STMS and Refresher – Level 1 Basic TC (1 day)	♣ 5 October 6 October 12 October 19 October 27 October 3 November 16 November 23 November 24 November 8 December 13 December 16 December	Christchurch Auckland Lower Hutt Taupo Hamilton Tauranga Auckland Christchurch Wanganui New Plymouth Napier Palmerston North	\$300 plus NZTA Registration \$40.00
Reinstatement of Service Trenches (1 day)	13 October	Wellington	\$420.00
Stabilisation of Road Pavements (1 day)	5 October	Dunedin	\$420.00
Supercharged Supervisors Toolkit (1 day)	6 October 23 November	Auckland Christchurch	\$470.00
Survey and Set out Stage 2 (2 days)	♦ 12-13 October 26-27 October	Palmerston North Auckland	\$750.00
Understanding NZS3910:2003 Conditions of Contract (2 days)	♦ 5-6 October ♦ FULL 19-20 October ♦ 17-18 November ♦ 23-24 November ♦ 30 Nov - 1 Dec	Palmerston North Auckland Christchurch Invercargill 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**



PART TIME STUDY • FULL TIME STUDY  
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# SEAL A FUTURE IN HIGHWAY TECHNOLOGY

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**Graduate Diploma in Engineering (Highways)**



Build a secure career with a tertiary qualification in Highway Engineering and Management through part-time block course study.

NZ Diploma in Engineering (Civil) and NZCE (Civil) graduates can qualify for entry into Year 3 of the Bachelor of Engineering Technology (Highways) allowing you to step-up to a degree level qualification.

Other graduates may qualify for entry into the one year Graduate Diploma in Engineering (Highways).

For more information and course details please contact (06) 7597065 or email [jill@nziht.co.nz](mailto:jill@nziht.co.nz)  
**[www.nziht.co.nz](http://www.nziht.co.nz)**

### Topics covered in the qualifications include

Transportation Engineering • Project Management • Traffic Engineering  
• Pavement Engineering • Geometric Design • Engineering Management

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*All programmes/courses are offered by NZIHT in association with the Western Institute of Technology at Taranaki (WITT), which is the accredited provider.*

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FOR ALL ENQUIRIES:  
FOR SHORT COURSES:  
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