NZIHT WELCOMES YOU TO

Developing the Future – Civil Engineering Cadets in the Roading Sector















Setting the standard for training in the civil engineering industry.

www.nziht.co.nz



Civil Engineering in NZ 2017

















NATIONAL ENGINEERING EDUCATION PLAN



- Shortage of Civil Engineers within NZ
- Civil Engineering still on Immigration NZ's Long Term Skill Shortage List
- Government priority a lot of funding devoted to attracting more Engineers
- Focus on Engineering Technicians



LOCAL GOVERNMENT ENGINEERS



- Aging Workforce
- Future Proofing Key for Local Government Infrastructure Growth
- Cadet programmes critical especially if not already in place
- Geographically variable requirements and needs



NZIHT'S CHALLENGE TO ROADING MANAGERS



- RCA Forum's fantastic support for Young Engineers.
- Think about how you got your first break into the Roading Industry?
- When was the last time you offered a student a chance to work within your team?
- What have you done recently to encourage your organisation to employ an intern or a cadet?



Attracting the Right Employees

















SO WHY CADETS?



- Employable students not all go to University
- You can train them to fit your organisation's needs
- When first employed they are on a lower than average salary
- They gain practical skills while they are studying.
 In time a huge plus over University Graduates



ATTRACTING EXISTING WORKERS INTO ENGINEERING



- Large employed workforce with transferrable skills into Engineering
- Pool of talent separate from other Local Government Departments and Consultants
- HR to possibly consider a broader range of candidates based on future organisational plans



NZIHT and Cadet Programmes

















WHO EXACTLY ARE NZIHT?



- In the industry for nearly 20 years
- Tertiary Engineering and Infrastructure
 Qualifications across NZ in the main city centres
- Civil Construction and Engineering specialised short courses nationally and off shore
- Conference event management



NZIHT TERTIARY QUALIFICATIONS



- New Zealand Diploma in Engineering Civil
- Graduate Diploma in Engineering (Highways)
- Certificate in Engineering Technology
- NZ Certificate in Infrastructure Works (Level 2) and (Level 3)



CADETS AND THE NZDE CIVIL



- Study is in a block format, designed to suit people in full time work
- Blocks consist of three four days in a classroom, the rest of the work done in the students own time and online
- Less time out of the workplace per annum verses part time at a regional polytechnic
- Four different venues if timing does not suit



CURRENT CADETS STUDYING WITH NZIHT IN THE GOVERNMENT SECTOR

AS OF 1ST JAN 2017



Horizons Regional Council	3
South Waikato District Council	2
New Plymouth District Council	2
Wairoa District Council	2
Hamilton City Council	1
Napier District Council	1
Palmerston North City Council	1
Wellington City Council	1
NZ Transport Agency	1
Marlborough District Council	1
Rotorua Lakes Council	1
Buller District Council	1
Waimate District Council	1
Ruapehu District Council	1
Waikato Alliance	1
Kaipara District Council	1



How Can Local Authorities Attract Cadets More Effectively?

















ATTRACTING THE RIGHT CADETS



- Build relationships with Careers Departments at Local Colleges (if not already in place)
- Identify key students that wish to stay local that are good at Maths and Physics
- Recently attended careers expos show that if school leavers are given the opportunity, the interest is there



ATTRACTING THE RIGHT CADETS cont.



- Cadets can come from other industries
- Cadets can be any age
- Open mindedness around transferrable skills
- Utilise NZIHT to plug gaps in knowledge



NZIHT Graduate Cadet Profiles

















NZIHT GRADUATE CADET PROFILE CHRIS CHAPMAN - TARARUA ALLIANCE







NZIHT GRADUATE CADET PROFILE JENNA NEAME – TASMAN DISTRICT COUNCIL







NZIHT GRADUATE CADET PROFILE AARIN BANG - NZTA







NZIHT GRADUATE CADET PROFILE HAIDEE WARD – BULLER DISTRICT COUNCIL





Personal Development and Training

















NZIHT SHORT COURSES



- Wide range many suitable for Local Government.
- 1-2 Day sessions.
- Delivered Nationally, off-shore as well as inhouse if required.
- Industry specialists utilised.



NZIHT SHORT COURSES cont.



Environmental Risks of Construction Understanding the National Utilities Code Successful Project Management Managing Infrastructure Affected By Rivers **Leading High Performing Teams** Understanding NZS3910 Conditions of Contract



FINAL THOUGHTS



- Potential shortage of Engineers in Local Government in the next five years
- Entire industry needs to focus and work together to ensure this does not happen
- NZIHT training model very efficient and cost effective to assist in this process
- Lets make it clear to youngsters there are many paths to becoming an engineer

THANK YOU

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