Level 2 Bridge Inspection

Melbourne | 27-28 October  2016

Who should attend?

The workshop is primarily aimed at, but not limited to:

- Bridge maintenance field staff, existing level 2 inspectors, and those level 1 inspectors ready to take the next step.
- Works supervisors responsible for the management, inspection, maintenance and major rehabilitation of local bridges.
- Practitioners from Local Government, forestry, consultants and contractors.

It will be beneficial for attendees to have basic knowledge of bridges and culverts or to have attended an ARRB level 1 Bridge Inspection course.

Purpose

To introduce and familiarise participants with the importance of regular inspections
- Identifying common structural defects in concrete, steel and timber bridges
- Identifying common structural defects in steel and concrete culverts
- Applying individual condition ratings to components
- Familiarity with the VicRoads Road Structures Inspection Manual
- Networking and sharing of information with fellow attendees

The training will include field inspections of timber, steel and concrete structures if available.

Outlines

Day 1 - is spent in the classroom explaining in detail the purpose and basics of a Level 2 bridge inspection, common problems and defects in structures and worked examples on how to undertake inspections, procedures, WHS, equipment requirements and completion of inspection reports.

Day 2 - covers field inspections of various structures where delegates are required to practise Level 2 inspections and complete the inspection reports. Completed inspections will be reviewed and discussed, and delegates will be provided feedback on the assessments to ensure satisfactory understanding and competence in conducting Level 2 inspections.

Included in the training are common defects in timber, steel and concrete structures to provide a better understanding of how best to report on general structural condition.

Pre-qualification

Attendees who wish to apply to VicRoads for pre-qualification as a Level 2 bridge inspector will be issued with an assignment which involves completion of practical bridge inspections. The completed assignment will be assessed. Applicants for VicRoads pre-qualification will be required to complete the assignment and to achieve an acceptable level of proficiency before their application for prequalification can be considered.

According to VicRoads Road Structures Inspection Manual, a level 2 bridge inspection should be undertaken at least every 2 - 5 years. The overall condition of the bridge, which is determined after the Level 2 inspection, can also influence the frequency of future Level 2 inspections.

The course will give you the experience and understanding to identify components, rate the condition of every visible component and prepare reports including digital photography requirements.

How to apply for VicRoads Pre-qualification

If you wish to apply to VicRoads for pre-qualification as a Level 2 inspector, please select the VicRoads pre-qualification briefing option in addition the accreditation option as well as attending the L2 training.
### Venue

Melbourne – ARRB Auditorium, 500 Burwood Highway, Vermont South.

### Fees

**Full Registration Fees**
- Price pp: $1,610
- GST: $161
- Total cost: $1,771

**Advanced Booking Registration**
**SAVE OVER $450**
(Register before 30 June 2016)
- Price pp: $1,180
- GST: $118
- Total Cost: $1,298

**Student Discount**
(Present Student ID at registration)
- Fee pp: $1,280
- GST: $120
- Total Costs: $1,408

**ARRB accreditation/assessment**
- Fee pp: $740

**VicRoads pre-qualification briefing**
- Fee pp: no charge

Registration fee includes morning and afternoon refreshments and lunch. All prices are quoted in Australian dollars.

### How to Register

To register for this workshop and make payments please click on the button below.

[click me to register](#)

Please note

On receipt of this registration, a confirmation email will be sent to you. If you do not receive confirmation, your registration may not have been processed or received.

ARRB Group
500 Burwood Hwy
Vermont South VIC 3133
T +61 3 9881 1680
F +61 3 9886 3076
ABN 68 004 620 651
arrb.com.au/workshops

### PRESENTER

**Anthony Rooke**
– Principal Bridge Asset Engineer

Anthony has 20 years’ experience in the UK, New Zealand and Australia and has acted as a consultant, contractor and Local Authority Engineer specialising in Structures Asset Management. His skills include the asset management of civil and highway structures including design, inspection, condition assessment, structural evaluation, maintenance optimisation and program management and the development of long term asset management plans. Since joining ARRB in 2012 Anthony has become a trusted advisor to various State and Territory Road Authorities along with numerous local authorities and private organisations.

**Josh Seskis**
– Asset Engineer – Structures, Bridges and Structures

Joshua is an experienced Structures Asset Engineer specialising in the delivery of professional asset management services to various clients. His skills include the management and delivery of Level 1 and Level 2 inspection contracts and has been involved in the inspection of over 1500 structures in the last two years. In addition to inspection of highway structures Joshua is actively involved in Austroads and NACoE research projects in fields such as deterioration of structures, load rating/assessment and optimisation of servicing regimes.

### TRANSFERRING KNOWLEDGE – ACCREDITATION

This workshop topic is aligned to nationally recognised units of competency included in RII40613 Certificate IV in Civil Construction Operations as well as other civil construction qualifications. ARRB is able to partner with a Registered Training Organisation (RTO) that scopes this qualification, and can offer the Bridge Inspection level 2 accredited skills set through ARRB Knowledge Transfer workshops.

Attending this workshop along with formal assessments undertaken both during and after the workshop, will be used to provide the underpinning knowledge you will need to complete the assessment tasks for this skill set. The units have been selected to provide the fundamental understanding of the knowledge and processes necessary to undertake level 2 bridge inspections. As always, practice is essential to develop and perfect the skills needed before undertaking independent inspections. The job of a level 2 inspector relies upon experience and an eye for detail.

Many road authorities require bridge inspectors to undergo additional internal training before being allowed to lead level 2 inspections for their agency. The internal training usually includes organisational policy, systems and procedures and industry best practice. For instance, VicRoads now recognises the ARRB Bridge Inspection level 2 course as a prerequisite to inspect VicRoads structures. ARRB is working towards gaining recognition of this skill set by other road authorities Australia wide.

### WHY DO THE FORMAL QUALIFICATION?

If you are not seeking a formal qualification, undertaking the assessment component of the workshop and gaining a statement of attainment for this skills set can be used to demonstrate skills and competency to your employer or clients. It will support your application to undertake independent bridge inspections for your organisation.

From the perspective of a road authority or industry related organisation, your employees will gain this skill set as a statement of attainment leading to a full qualification and will come away with the knowledge and skills that with practice, will lead to a confident and competent inspector. Professional development and up-skilling is an excellent way to maintain sustainable expertise and happy, competent workers as well as currency of method, technique and compliance.

### HOW TO ENROL INTO THE ACCREDITED SKILLS SET

Please select the accreditation option in addition to attending the workshop. You will then receive an introductory email, an enrolment form and a phone call to explain the support process before, during and after enrolment. You will be invoiced separately for the skills set on receipt of your enrolment form.
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ARRB's Privacy Statement
Personal information provided by you may be held on a database and may be shared with others both nationally and internationally. Sometimes your details may be obtained from, or made available to external companies for marketing purposes. If you do not wish us to hold your details, please write to Privacy Officer, ARRB Group, 500 Burwood Highway, Vermont South, Vic 3133 or email on privacy@arrb.com.au If you choose to ask us not to hold your details, we may not be able to provide you with the services you require. A copy of ARRB's Privacy Policy is available upon request.

Cancellations
If you are no longer able to attend this event a substitute attendee may take your place. However, if you wish to cancel your registration a full refund, minus a $220 (incl GST) service fee, will be given provided you have notified us in writing, by email, letter or fax, at least 10 business days before the start of the workshop. No refund is available for cancellations under 10 days.

Nationally Recognised Training
ARRB is progressively obtaining formal accreditation for many of its workshops.

ARRB Group supports the Helmets for Kids school program
ARRB is committed to the UN Decade of Action for Road Safety, and as part of our commitment, ARRB will donate $15 from every workshop registration to support the Helmets for Kids school program. For further information about ARRB’s involvement visit: arrb.com.au
For information about the Global Helmet Vaccine Initiative visit: helmetvaccine.org

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Day 1
8:00 am
Tea and coffee, a networking opportunity
8.20 am
Welcome and introductions
9.00 am
Bridge basics, management & inspection levels
10.00 am
Defects & condition states of bridge components
10.30 am Morning tea break
10.50 am
Defects & condition states of bridge components continued
11.50am
Components, groups & terminology
12.45 pm | Lunch break (with lunch provided)
1.00pm
Components, groups & terminology continued
3.00 pm Afternoon tea break
3.20 pm
Culverts and timber bridge inspections
3.30pm
Other inspection forms
4.00 pm
Bridge inspection exercise
4.30 pm Conclusion of Day 1

Day 2
8.00 am
Tea and coffee on arrival
8.15 am
Review of key concepts
8.45 am
Field inspections of various bridges:
- Timber
- Steel
- Concrete
12.30 pm | Lunch break (with lunch provided)
1.30 pm
Field inspections of various bridges (continued)
2.15 pm Afternoon tea break (classroom)
2.30 pm
Discussion of inspection forms completed and results obtained
3.00 pm
VicRoads prequalification briefing
5.00 pm Conclusion of Day 2
NB – For those attendees who are not applying for VicRoads prequalification, the L2 training will conclude at 3pm.

Day 2
12.30 pm | Lunch break (with lunch provided)

Venue
Melbourne – ARRB Auditorium, 500 Burwood Highway, Vermont South.

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