

A large, semi-transparent white circle is centered on the page, containing the main title text. The background of the entire page is a photograph of a modern multi-level highway interchange with concrete pillars and ramps, under a clear sky.

# BRIDGE INSPECTION LEVELS 1 & 2

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**ARRB  
WORK-  
SHOPS**

20-22 August 2019  
SYDNEY

# BRIDGE INSPECTION

Bridges and other structures are crucial asset elements of the infrastructure network. It is essential that their condition is monitored and repairs are planned and completed in an efficient and timely manner. The systematic inspection, condition rating and monitoring of these assets are vital components to managing the lifecycle of these structures. This 3-day workshop will assist participants to develop the knowledge and skills to conduct Level 1 and 2 Inspections in accordance with industry best practice.

ARRB

20-22 AUGUST 2019  
PARKROYAL  
PARRAMATTA  
30 PHILLIP STREET,  
PARRAMATTA NSW

[CLICK HERE TO REGISTER  
LEVEL 1 & 2](#) >

TO REGISTER FOR THIS WORKSHOP AND MAKE PAYMENTS PLEASE CLICK THE ABOVE BUTTON.



A Level 1 routine maintenance inspection is required to check the general serviceability of the structure, particularly for the safety of road users, and identify any emerging problems.

A Level 2 condition rating inspection is a key step in assessing the effectiveness of past maintenance treatments and identifying current maintenance needs to assist in the forecasting future changes in condition and estimating future budget requirements of structures across the network.

## CONTENT

- Introduction to structures inspections
- Structure types and their components
- Identifying common defects
- Access and equipment requirements
- Inspection Forms and Data Recording
- The Inspection Process
- Reporting
- Safe work practices

## WHO SHOULD ATTEND

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

- Road and bridge maintenance field staff
- Existing Level 1 and 2 Inspectors
- Leading hands
- Works Supervisors
- Inspectors
- Engineers
- Consultants
- Contractors

It will be beneficial for attendees to have a basic knowledge of bridges and culverts.

BRIDGEWORKSHOP



#### LEARNING STRATEGIES

- Lectures
- Case studies
- Group Discussions
- In-class activities
- Site inspections

## OUTLINE

**DAY 1** will investigate in detail the purpose and basics of a Level 1 bridge inspection, common problems and defects in structures and worked examples on how to undertake inspections, procedures, work health & safety, equipment requirements and completion of inspection reports.

**DAY 2** will include field inspections where attendees are required to practise Level 1 inspections and complete the inspection reports.

Completed inspections will be reviewed and discussed, and attendees will be provided feedback on the assessments to ensure satisfactory understanding and competence in conducting Level 1 inspections. The program will then move to addressing 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 3** will include 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.

## PRESENTERS

### ROBERT MEIKLEJOHN

#### ENGINEER – BRIDGES AND STRUCTURES

Robert is an experienced structural engineer specialising in the delivery of professional asset management services to the private and public sector. His skills include the management and delivery of Level 1, Level 2 and Level 3 inspection contracts and he has been involved in the inspection of over 600 structures since joining ARRB. Robert is actively involved in structures asset management research projects, notably with Austroads and TMR's NACOE Program.

### DR NEAL LAKE

#### PRINCIPAL TECHNOLOGY LEADER – BRIDGES AND STRUCTURES

Neal has a leadership role within the Australian Road Research Board (ARRB) to deliver quality consulting and research outcomes in the field of structures, bridge management services and inspections and higher order structural analysis and design. He places strong emphasis on quality outcomes that address the needs of his clients.

With over 22 years' experience in multi discipline engineering environments, Neal has gained a wide variety of experience in the areas of civil infrastructure evaluation, design and asset management; heavy industrial infrastructure evaluation, design and retrofit; structural testing and measurement; research and commercialisation.

# KNOWLEDGE TRANSFER ACCREDITATION

This workshop provides the underpinning knowledge to align with nationally recognised units of competency from the Certificate IV in Civil Construction Supervision as well as other civil construction qualifications.

## FEES

### 3 DAY WORKSHOP FEES (LEVEL 1 & 2)

PRICE PP: \$2,250

PRICE PP\*: \$3,266 (Including ARRB Accreditation)

\*ARRB accreditation / assessment is only available if you take part in the 3 Day Workshop (Level 1 & 2)

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

ARRB

This workshop provides the underpinning knowledge to align with nationally recognised units of competency from the Certificate IV in Civil Construction Supervision as well as other civil construction qualifications. A formal assessment pathway is available for participants looking to achieve a competency outcome from this training. 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 skills set comprises the following units of competency:

RIICSG405D: Carry out inspections of civil structures

RIIIMG301D: Maintain site records

RIIRIS301D: Apply risk management processes

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 by other road authorities Australia wide.

**Please note: To take part in the VicRoads prequalification, you must be a paid delegate at a Level 1 and Level 2 Bridge Inspection workshop being held in Melbourne.**

BRIDGEWORKSHOP

## ENDORSEMENTS

Institutes of Engineers, Australia (IEAust). This course is recognised by Engineers Australia for Continuing Professional Development.



Engineers Australia members can choose to record CPD hours for attendance at this event in their personal CPD logs. Members should refer to Engineers Australia's CPD Policy for details of requirements and conditions.



## PRIVACY STATEMENT

Personal information provided by you is managed in accordance with the Privacy Act 1988 (Privacy Act). ARRB and IPWEAQ is committed to providing confidentiality to and protecting the privacy of its clients, participants, employees and contractors. We guarantee that we will not sell personal information to any third party.

ARRB and IPWEAQ will not provide individual personal or training information to unauthorised third parties unless prior written permission has been received from the individual. The ARRB and IPWEAQ Privacy Policies can be viewed on each entities website.

## 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. [Click here](#) for further information.