Bridge Inspection Levels 1 & 2

Queensland | 26, 27, 28 April 2017

Overview
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.

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.

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.

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.

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.

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

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

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

Click here to register
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. 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
- RIIMG301D: Maintain site records
- RIIRIS301D: Apply risk management processes

Arranging bridge inspections is crucial to the safe and efficient operation of our roads. 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:

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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.

Endorsements

Institution of Engineers, Australia (IEng Aust)
This course is recognised by ENGINEERS AUSTRALIA for Continuing Professional Development.

ARRB accreditation/assessment

Accreditation is only available if you take part in the 3 Day Workshop (Level 1 & 2). Price pp: $740

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

Presenters

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 – 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.

ARRB & IPWEAQ supports the Helmets for Kids school program
ARRB & IPWEAQ is committed to the UN Decade of Action for Road Safety, and as part of our commitment, we will donate $25 from every workshop registration to support the Helmets for Kids school program.

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For further information on ARRB’s involvement visit: arrb.com.au
For information about the Global Helmet Vaccine Initiative visit: helmetvaccine.org