

# Structure's Life Cycle Program (Bridge and Culverts)



## Overview

This eLearn program will provide participants with an insight into best practice and the complex processes associated with the life cycle of bridges and culverts in Queensland.

The program focuses on improving outcomes at all stages through best practice examples, embracing the learnings from major bridge infrastructure projects, communication and knowing who to collaborate with on different aspects during the life cycle.

The fundamental process from needs identification, planning the structure, defining the design, to constructing, operating, managing and maintaining structures is explored.

The program consists of the following nine (9) stand-alone modules and a site visit:

1. **Introduction to Structure's Life Cycle (Bridge and Culverts) Mandatory prior to undertaking modules 2 -9**
2. Structure Management - June 2020
3. **Structure Planning**
4. **Structure Design**
5. Contracts Pre-construction–Under construction
6. Construction – June 2020
7. Structure Operations – Under construction
8. Structure Maintenance – Under construction
9. Structure Disposal - Under construction
- \* Site visit – Under construction.

The program is structured so you can pick and choose the modules most relevant to your learning needs.

## Target audience

All personnel working in the field of bridge planning, design, construction, management and maintenance. Ideal for technical and professional staff in the Department of Transport and Main Roads, Queensland Rail and local government including Engineers (all levels), Project Managers, Contract Administrators, Contract Principals, Construction/Works Supervisors and Consultants.

## Prerequisites

Nil

## Business benefits

The benefits of undertaking this program for employers, employees and individuals include:

- a workforce more aware of bridge and culvert life cycle fundamentals, risks and best practice
- convenience and flexibility – training can be undertaken at a time to suit business and/or individual needs
- training is cost effective
- training can be undertaken at the individual's own pace assisting them to grasp and better retain information.

## Duration and costs

Individual modules vary in length and cost, please refer to the module outlines for further details.

## Program outcomes

1. Develop an appreciation of the fundamentals of the structure life cycle of bridges and culverts.
2. Apply best practice to the phases of a structures life cycle.
3. Identify common challenges faced during the different phases of a structure's life cycle and examine how to resolve these.
4. **Recognise the criticality of adhering to the Department of Transport and Main Roads' specifications and technical documents.**
5. Receive some limited guidance on the use of technical specifications across projects.

To register go to the Department of Transport and Main Roads' website, Business and Industry page, click on the Technical Training link and locate the eLearning section.

