Guide to Best Practice for Safer Construction: Executive summary



Construction is Australia's third most dangerous industry, with an average of 49 workers killed at work each year since 1998. In 2002–2003, the incidence of workplace fatalities in the Australian construction industry was nearly three times higher than the national average for all industries. It is clear that there is still significant room for improvement in this aspect of Australia's construction industry.

The *Guide to Best Practice for Safer Construction* has been developed following a detailed review of practical Australian and international best practice initiatives.

The Guide is the key outcome of the *Safer Construction Project*, which was commissioned by Engineers Australia in response to the recognised need to reduce accidents and deaths in construction processes. The roles that engineers play for the main participants in the industry, the clients, designers/professionals, and the constructors, was also recognised and seen as a potential driver of change in the industry.

The Cooperative Research Centre (CRC) for *Construction Innovation* provided the industry research leadership in coordinating and funding this key project.

The Guide suggests a framework for improving safety performance on construction projects. It addresses all stages of the construction process: planning, design, construction and post-construction. Its overarching objective is to reduce the number of accidents and deaths on construction sites and to improve the ability of the industry as a whole to deliver safer construction projects and healthier employees.

The three primary stakeholder groups of the construction industry – clients, designers and constructors – have worked together to suggest best practice which integrates occupational health and safety into strategic and operational decision-making at all stages of the project.





Creating a robust safety culture

The construction industry has an obligation to provide safety for workers, the public, suppliers, and other participants in the construction process.

In the past, traditional safety efforts focused on technical and engineering aspects, but this guide suggests that a strong and positive safety culture and correct behaviours are essential to the improvement of safety in the industry.

Creating a strong safety culture requires the involvement and commitment of all project stakeholders. Whether a business is a construction client, designer or constructor, consistent and effective operation of safety management systems throughout the business is assisted by a strong safety culture among senior management and board members overseeing its operations.

The principles of a safety culture

The framework for this guide suggests six best practice principles for creating a strong safety culture. They are intended to operate at an industry level as broad values for adoption at both the corporate and project level.

The best practice principles are:

Principle 1: Demonstrate safety leadership

Principle 2: Promote safety in design

Principle 3: Communicate safety information

Principle 4: Manage safety risks

Principle 5: Continuously improve safety performance

Principle 6: Entrench safety practices.

Guide to Best Practice for Safer Construction

The Guide to Best Practice for Safer Construction comprises two parts:

1. Guide to Best Practice for Safer Construction: Principles

This section identifies how the six best practice principles would be applied through the four stages of a project's lifecycle – planning, design, construction and post-construction. Best practice tasks are identified within each principle and at each stage of the project. Understanding these principles is important in identifying the responsibilities of client, designer and contractor in relation to OHS within project teams.

2. Guide to Best Practice for Safer Construction: Tasks

In the second part to The Guide, safety best practices are described for each stage of the project. Tasks for improving safety are outlined for each of the four main stages of a project: planning, design, construction and post-construction. The information provided includes:

- the suggested action to be taken to complete the task
- a detailed description of the task
- kev benefits of the task
- desirable outcomes of the task
- performance measurement criteria
- a recommendation of who should lead the task.

As all projects are unique, the project stakeholders will need to determine which suggested tasks and procedures are most appropriate and applicable to their particular project, commensurate with the risk profile of that project.

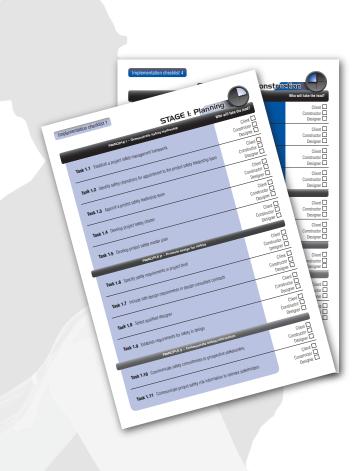
Throughout this part of The Guide case study examples of the suggested best practice principles are provided to illustrate implementation in the Australian construction industry.



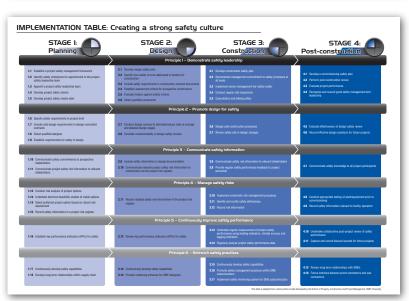
Guide to Best Practice for Safer Construction: Implementation kit

A kit has been developed to assist in the implementation of The Guide. It contains:

- Guide to Best Practice for Safer Construction: Principles
- Guide to Best Practice for Safer Construction: Tasks
- a range of support materials including:
 - » Implementation table: Creating a strong safety culture — A table outlining the safety tasks for each principle, across the stages of a construction project.
 - » Implementation checklists The checklists, one for each stage, enable organisations to identify who (client, constructor or designer) would take the lead on each task through the project cycle.
 - » A CD featuring reports produced by this and other relevant CRC for *Construction Innovation* projects including the following documents:
 - Guide to Best Practice for Safer Construction:
 Literature review 'From concept to completion'
 - Guide to Best Practice for Safer Construction:
 Case studies
 - A Construction Safety Competency Framework: Improving OH&S performance by creating and maintaining a safety culture and its executive summary







The Guide to Best Practice for Safer Construction: Implementation kit is available from www.construction-innovation.info.





The project partners







Government



Research







Vital to the success of this project has been the involvement and consultation with the major industry stakeholders:













Department of Employment and Workplace Relations Office of the Federal Safety Commissioner

Master Builders Australia also provided valuable input to this project.

The CRC for *Construction Innovation* is a national research, development and implementation centre focused on the needs of the property, design, construction and facility management sectors. Established in 2001 and headquartered at Queensland University of Technology as an unincorporated joint venture under the Australian Government's Cooperative Research Programme, *Construction Innovation* is developing key technologies, tools and management systems to improve the effectiveness and productivity of Australian industry.

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