

Presentation Instructions

Who is this presentation for?

The trainer and learners.

What is in this Presentation?

- Course information that matches the Learner Guide content.
- Review questions and model answers.
- Slides contain summarised content, with full notes and information for the trainer, visible when the slide show is shown in "Presenter View" (see instructions on next slide).
- Use this presentation to support and reinforce the training information from the Learner Guide.

What do you need to do before you use it for the first time?

1. Rebrand the presentation.
2. Review the presentation as part of your validation process.

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Instructions for Viewing in Presenter View

NOTE: This view is only applicable when the computer is connected to a second screen or a data projector.

Once the second screen/projector is connected make sure that the "Use Presenter View" box is ticked.

This is found in the "SLIDE SHOW" tab as shown below.



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RIMP04021

**APPLY THE PRINCIPLES OF
EARTHWORKS CONSTRUCTION**



**TRAINING
PRESENTATION**

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RIMP0402D

Training Presentation Sections

Click on a box to go to that section.



Section 1:
Introduction



Section 2:
Plan & Prepare to Supervise
Earthworks Construction



Section 3:
Initiate & Oversee the Execution
of Earthworks Construction Tasks

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Section 1: Introduction



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RIIMPO402D

1.1 Introduction

This course is based on the national unit of competency **RIIMPO402D Apply the Principles of Earthworks Construction.**

You will learn about:

- ◆ Planning and preparing for earthworks construction.
- ◆ Implementing plans for earthworks construction.
- ◆ Monitoring and adjusting the execution of tasks.
- ◆ Completing reports and providing feedback.



This course is based on the national unit of competency **RIIMPO402D Apply the Principles of Earthworks Construction.**

The materials in this course apply to a supervisor or technical specialist working in earthworks construction within the civil construction industry.

You will learn about:

- ◆ Planning and preparing for earthworks construction.
- ◆ Implementing plans for earthworks construction.
- ◆ Monitoring and adjusting the execution of tasks.
- ◆ Completing reports and providing feedback.

1.1.1 Earthworks Construction

Earthworks construction may include tasks such as:

Earthworks Construction Task	Land clearing.
	Bulk earthwork.
	Surface drainage works.
	Water storage dam construction.
	Tailings dam construction.
	Rehabilitation works.
	Road works preparation.

Earthworks construction may include tasks such as:

Earthworks Construction Task & Explanation

Land Clearing

Clearing vegetation and other obstructions to prepare for further work. Must abide by environmental protection legislation, job specifications and approvals.

Bulk Earthwork

Relates to the movement and working of material on the site, e.g. cut and fill operations.

Surface Drainage Works

Ensures water always leaves the area, normally down a slope so that it sheets away or runs off.

Water Storage Dam Construction

Ensures a secure water supply so that site operations can be completed to specifications, e.g. a 'borrow pit'.

Tailings Dam Construction

Used to manage wastewater, which may be treated prior to leaving the site or held in reserve for a set period of time.

Rehabilitation Works

Relates to activities aimed at fixing or upgrading conditions on the site or returning the site to pre-work standards.

Road Works Preparation

Including the sub-grade and placement of base layers – entails the removal of unsuitable materials ensuring a solid foundation for the road works.

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1.1.2 Earthworks Construction Practice

Earthworks construction practice may include:

- ◆ Site preparation.
- ◆ Extraction.
- ◆ Load and haulage.
- ◆ Placement.
- ◆ Distribution.
- ◆ Surface finishing.
- ◆ Line, grade and level control.
- ◆ Compaction.
- ◆ Water application.
- ◆ Sedimentation control.
- ◆ Other methods or techniques.



Earthworks construction practice may include methods and operational techniques for the following:

- ◆ Site preparation.
- ◆ Extraction.
- ◆ Load and haulage.
- ◆ Placement.
- ◆ Distribution.
- ◆ Surface finishing.
- ◆ Line, grade and level control.
- ◆ Compaction.
- ◆ Water application.
- ◆ Sedimentation control.

- ◆ Other methods or techniques appropriate to the work activity or site location.

Industry standards usually apply across all earthworks construction sites, however some organisations require different operational techniques to be used in certain cases.

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1.2 Site Policies & Procedures

While supervising others you need to make sure everybody in your team follows the safety rules and instructions when performing their work.

Before starting any civil works you need to make sure you and your team have access to all operations documentation for the job.



While supervising others you need to make sure everybody in your team follows the safety rules and instructions when performing their work. You should answer any questions that personnel have towards health and safety or direct them to the right person to speak to.

Before starting any civil works you need to make sure you and your team have access to all operations documentation for the job. This will help everyone to do their work in the safest way and make sure all work is compliant.

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1.2 Site Policies & Procedures

Operations documentation includes:



Operations documentation includes:

Site Details – The information and safety requirements of the work environment.

Hazard Details – Any hazards in the work area or related to the work. This could also include instructions on how to handle dangerous or hazardous materials.

Task Details – Instructions of what the work is (this can include diagrams or plans). Also instructions on how to safely do each component of the project.

Faulty Equipment Procedures – Isolation procedures to follow or forms to fill out.

Signage – Site signage tells you what equipment personnel need to have, or areas where hazards exist.

Emergency Procedures – Instructions on what to do in emergency situations, for example if there is fire, accident or emergency where evacuation or first aid is needed.

Equipment and Work Instructions – Details of how to operate plant

and equipment and the sequence of work to be done.

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Section 1 Review Questions

1. List 3 things that may be included in 'operations documentation'.



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Section 1 Review Questions

1. List 3 things that may be included in 'operations documentation'.

- ◆ Site details.
- ◆ Hazard details.
- ◆ Task details.
- ◆ Faulty equipment procedures.
- ◆ Signage.
- ◆ Emergency procedures.
- ◆ Equipment and work instructions.



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1.3 Working Safely

You must ensure that all personnel that you supervise follow all safety rules and instructions when performing their work.



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1.3.1 Health & Safety Rules

Every workplace has to follow laws and rules to keep everyone safe. There are 4 main types:

Law or Rule	Acts.
	Regulations.
	Codes of Practice.
	Australian Standards.

Every workplace has to follow laws and rules to keep everyone safe. There are 4 main types:

Law or Rule & Explanation

Acts - These are laws that you have to follow.

Regulations - These explain what the law means.

Codes of Practice - These are instructions on how to follow the law, based on industry standards.

Australian Standards - These tell you what the minimum requirement is for a job, product or hazard e.g. AS 3798 – 2007 guidelines on earthworks for commercial and residential developments.

Some states use OHS laws, and other states use WHS laws. They both talk about the same thing, but use different words or names for people.

1.3.2 How to Keep Everyone Safe

All companies and workers need to keep themselves and other people safe while they work – a duty of care.

To keep everybody safe workers need to:

- ◆ Follow their instructions.
- ◆ Follow all workplace rules.
- ◆ Make sure all equipment is safe to use.
- ◆ Carry out their work safely.
- ◆ Report any problems.



WHS law says that all companies and workers need to keep themselves and other people safe while they work. This is called a duty of care.

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- ◆ Carry out their work safely.
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1.3.2 How to Keep Everyone Safe

If a member of your team notifies you of an issue or problem you will need to take appropriate action in line with site and organisational requirements.



If a member of your team notifies you of an issue or problem you will need to take appropriate action in line with site and organisational requirements. This could include:

- ◆ Stopping, postponing or re-scheduling tasks.
- ◆ Organising for specialists, technical experts or consultants to review the situation.
- ◆ Organising additional resources, personnel, equipment or training before the work continues.
- ◆ Completing forms or reports to document the issue.
- ◆ Assisting personnel to complete documents and forms.
- ◆ Contacting manufacturers or other service providers about the issue.
- ◆ Contacting relevant authorities about the issue.
- ◆ Re-evaluating work plans and making adjustments to manage the

issue.

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Section 1 Review Questions

2. How can workers ensure they are meeting their duty of care responsibilities?



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Section 1 Review Questions

2. How can workers ensure they are meeting their duty of care responsibilities?

- ◆ Follow their instructions.
- ◆ Follow all workplace rules.
- ◆ Make sure all equipment is safe to use.
- ◆ Carry out their work safely.
- ◆ Report any problems.



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1.4 Environmental Management

Federal, state and local governments jointly administer the environmental protection legislation in Australia through bilateral agreements.

At the federal level, the *Environment Protection and Biodiversity Conservation Act 1999* covers the assessment and approval processes of national environmental and cultural concerns.



All organisations play an important role in environmental management, however the legislation that affects them directly differs depending on the activities they undertake.

Federal, state and local governments jointly administer the environmental protection legislation in Australia through bilateral agreements.

At the federal level, the *Environment Protection and Biodiversity Conservation Act 1999* covers the assessment and approval processes of national environmental and cultural concerns.

The Act is administered by the Department of Sustainability, Environment, Water, Population and Communities.

The Department also administers other Acts relating to the sea, importing, heritage issues, hazardous wastes and fuels.

1.4 Environmental Management

Environmental protection requirements are part of every worksite. You must be able to:

- ◆ Identify the environmental management plans, requirements and constraints.
- ◆ Confirm any aspect of the environmental management plan.
- ◆ Apply the project environmental protection requirements.



Environmental protection requirements are part of every worksite. You must be able to identify the environmental management plans, requirements and constraints, confirm any aspect of the environmental management plan you are unsure of, and apply the project environmental protection requirements to all the tasks you do on the site.