

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.

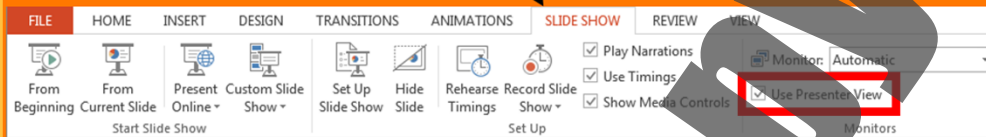
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Instructions for Viewing in Presenter View

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.



RICHMOND **PLACE AND COMPACT** **CONCRETE**



TRAINING
PRESENTATION

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Training Presentation Sections

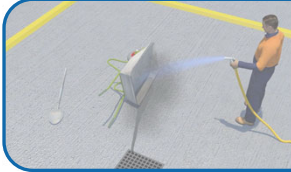
Click on a box to go to that section.



Section 1: Plan and Prepare to Place and Compact Concrete



Section 2: Place, Compact and Screed Concrete



Section 3: Clean Up

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**Section 1:
Plan and Prepare to Place and
Compact Concrete**



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1.1 Introduction

This training course is based on the national unit of competency **RIICRC316E – Place and Compact Concrete**.

This course will cover the following key aspects of concrete placement and compaction:

- ◆ Review of work requirements and documentation.
- ◆ Management of work health, safety and environment.
- ◆ Selection, use and storage of tools.
- ◆ Preparation of work area.
- ◆ Placement and compaction of concrete.
- ◆ Management of clean-up activities and tools.



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1.1 Introduction

The following terminology will be used throughout this training material:

Terminology	Concrete
	Batch
	Placement
	Compaction

The following terminology will be used throughout this training material:

Terminology and Explanation

Concrete

Concrete is a composite building material made from fine and coarse aggregates blended with a combination of cement, water and additives that hardens or cures over time.

Batch

The activity of combining and mixing the concrete ingredients to create a mix or load.

Placement

The process of depositing concrete into its final location.

Compaction

The process of expelling air voids or pockets within the concrete to improve strength.

1.2 Plan for the Job

Be clear about the work you will be doing. Make sure you have everything about the job written down before you start, including what you will be doing, how you will be doing it and what equipment you will be using.

Your work instructions, plans and drawings will guide you and help you ensure you complete the job per the job requirements. Work requirements can include:

- ◆ Project dimensions.
- ◆ Project tolerances.
- ◆ Standards of work.
- ◆ Material standards.



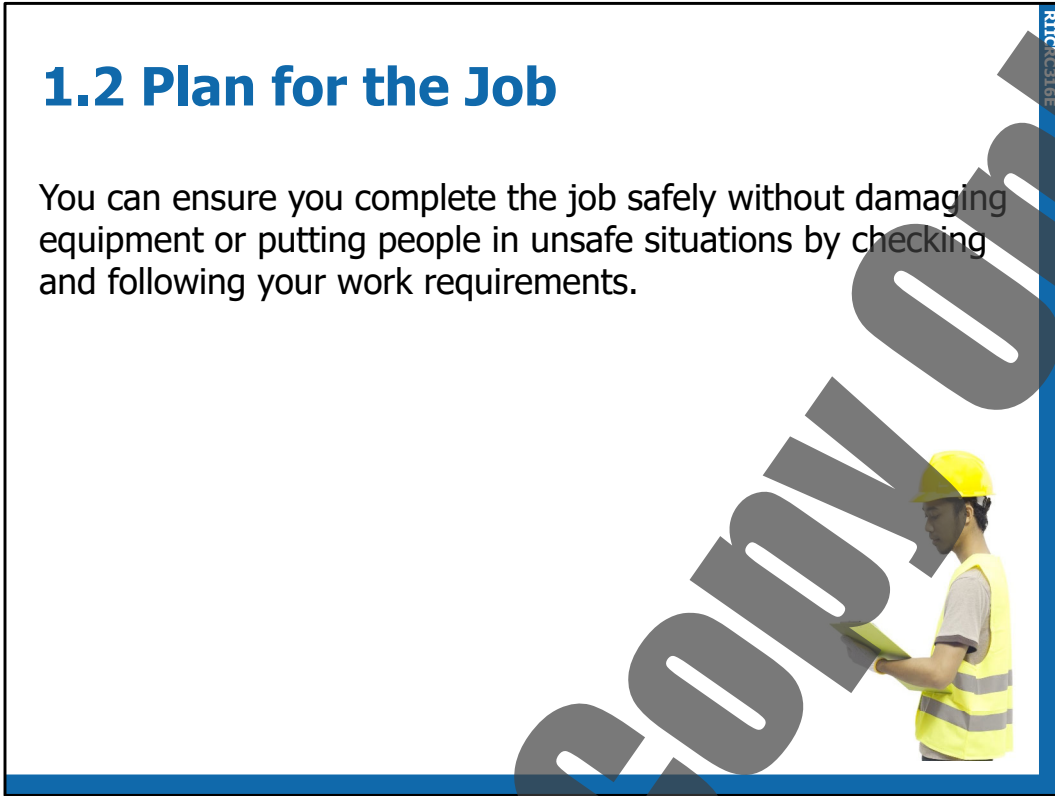
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1.2.1 Confirm Work Requirements

Every civil construction and concreting project will have to meet specific work requirements. As concrete has a short shelf life from batching to placing and finishing, you must understand your work requirements before beginning the job.

The requirements for the job can change based on the environmental conditions, type of pour, discharge method, and traffic and weather conditions.



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Before receiving the concrete delivery, you should confirm with the supplier if any specific factors may impact the work requirements and how the work is completed. This could include asking them about the:

- ◆ Size.
- ◆ Location.
- ◆ Traffic management.
- ◆ Type of concrete.
- ◆ Timing.
- ◆ Truck spacing.
- ◆ Site hazards, control measures and rules.
- ◆ Site licence conditions.



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- ◆ **Size** – How big is the job? How many cubic metres of concrete will be needed?
- ◆ **Location** – Where is the job site?
- ◆ **Traffic management** – Where are the safe entry and exit points? Will there be any off-site queueing or community issues (for example, a school across the road)?
- ◆ **Type of concrete** – What is the required strength, aggregate size, specification, and slump of the concrete?
- ◆ **Timing** – When is the first truck needed on site?
- ◆ **Truck spacing** – What is the estimated time to discharge each truck on site? How many trucks can fit on site at once?
- ◆ **Site hazards, control measures and rules** – Is there any high-rise

construction involving cranes and boom pumps on site?

- ◆ **Site licence conditions** – Do noise hours need to be considered?
Should reverse squawkers be on trucks?

Continued...

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1.2.1 Confirm Work Requirements

- ◆ Discharge method.
- ◆ Testing requirements.

Your work site may already have checklists and procedures to ensure that the details of the work requirements are confirmed and communicated to all relevant personnel before the concrete is delivered. Speak with your supervisor if you do not understand the job's work requirements.



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- ◆ **Discharge method** – Will the job involve using direct, pump, wheelbarrow, crane or kibble discharge methods?
- ◆ **Testing requirements** – Frequency and test type, location for testers, testing waste collection and removal.

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1.2.2 Access and Interpret Documentation

A set of records will accompany each concrete pour. Understanding what information is required and how to interpret the information is essential. Different companies use various templates and terminology, so clarifying what you need ahead of time and how to collate, store and manage the information on the day will ensure that your job occurs without delay.



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The types of documentation that may be required include:

Document Type	Examples
Health, Safety and Environment	Toolbox talks, site induction handouts, safe work method statements, health, safety and environmental policies and procedures, hazard report forms, incident reports, audit checklists, site checklists, site health, safety and environmental plans.

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Continued...

1.2.2 Access and Interpret Documentation

Document Type	Examples
Concrete Specific	Specifications, designs, quality, inspection and testing plans.
Operational	Site maps, work instructions, project plans, construction plans.

Document Type and Examples ... *Continued*

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Operational

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1.2.2 Access and Interpret Documentation

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Section 1 Review Questions

1. Before receiving a concrete delivery, who should you confirm the size of the pour and concrete type with?

The concrete supplier.



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Section 1 Review Questions

2. In what types of documentation might you find concrete specific information?



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