

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?

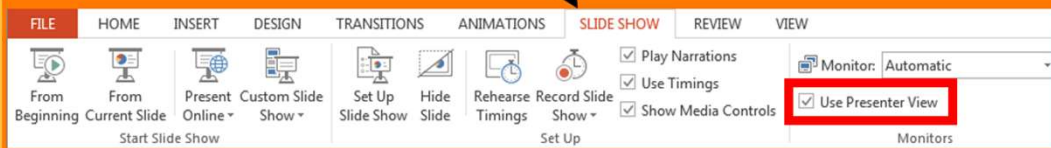
1. Rebrand the presentation.
2. Review the presentation as part of your validation process.

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.



RIICPRO307E

CONDUCT ROAD PAVEMENT CONSTRUCTION



TRAINING
PRESENTATION

Training Presentation Sections

Click on a box to go to that section.



Section 1:
Plan and Prepare for Work



Section 2:
Set Up Work Area



Section 3:
Place, Spread and Compact
Materials

Section 1: Plan and Prepare for Work



1.1 Introduction

These materials are based on the national unit of competency **RIICRC307E Conduct Road Pavement Construction**.

You will learn about:

- ◆ Planning and preparing for work.
- ◆ Setting out the work area.
- ◆ Placing and spreading materials.
- ◆ Compacting materials.
- ◆ Cleaning up the work area.



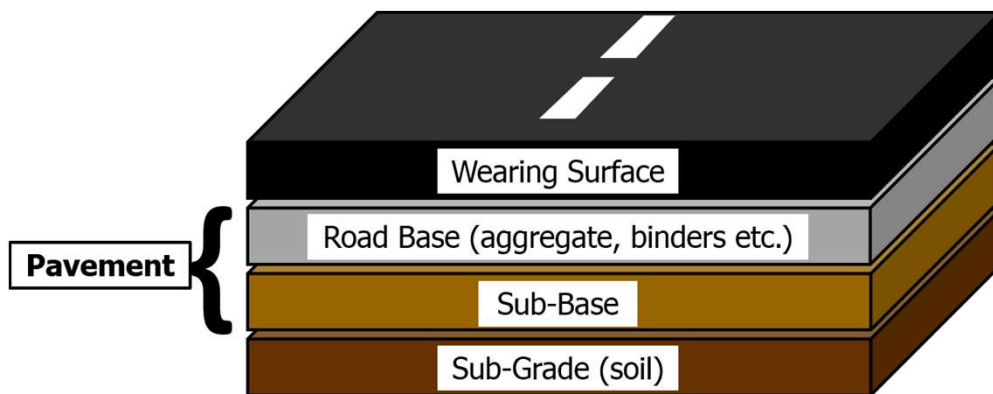
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- ◆ Placing and spreading materials.
- ◆ Compacting materials.
- ◆ Cleaning up the work area.

1.1.1 What is Road Pavement?

Road pavement is all of the materials above the sub-grade structure and below the wearing surface. It is sometimes known as the sub-base or base structure.



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Pavement - Wearing Surface
 Road base (aggregate, binders etc.)
 Sub-Base
 Sub-Grade (Soil)

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1.1.1 What is Road Pavement?

As a guideline, the construction of road pavement involves the following steps:

- 1. Material delivery** – the materials for the work will be delivered on site in preparation for the work to begin. You may be required to direct the delivery trucks to the required locations.
- 2. Spreading and compacting** – materials are spread and compacted to the required dimensions and density, typically using rollers, graders and water trucks (where required).



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Continued...

1.1.1 What is Road Pavement?

- 3. Finishing** – while the materials are still slightly loose a final check is done to ensure the correct dimensions have been achieved. Repairs may be made at this stage to correct any imperfections prior to the compaction of the layer being completed.



...Continued

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1.1.1.1 What is Road Pavement?

This process may be repeated depending on the required amount of pavement layers for the job. These will be detailed in your work instructions, job specifications and relevant drawings and plans.

Work areas where road pavement construction is conducted may include:

- ◆ Haul roads.
- ◆ Formed/prepared roads.
- ◆ Access roads.
- ◆ Pads.
- ◆ Dam walls.



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Section 1 Review Questions



1. Which vehicles are typically used for the spreading and compacting of materials for road pavement construction?

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Rollers, graders and water trucks (where required).

Section 1 Review Questions



2. Why might repairs be made to the pavement layers prior to finishing the compaction of materials?

Section 1 Review Questions



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To correct any imperfections.

Section 1 Review Questions



3. What is road pavement?

Section 1 Review Questions



3. What is road pavement?

The materials above the sub-grade structure and below the wearing surface.

1.2 Work Instructions

You need to be clear about what work you will be doing. Make sure you have everything about the job written down before you start. This includes what you will be doing, how you will be doing it and what equipment you will be using.

Make sure you have all of the details about where you will be working. For example:

- ◆ The Site.
- ◆ The Weather.
- ◆ Facilities and Services.
- ◆ Traffic.
- ◆ Hazards.



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Make sure you have all of the details about where you will be working. For example:

- ◆ **The Site** – Is there clear access for all equipment? Are there buildings, structures, facilities or traffic in the way?
- ◆ **The Weather** – Is there wind, rain or other bad weather? Is it too dark?
- ◆ **Facilities and Services** – Are there power lines or underground services to think about?
- ◆ **Traffic** – Are there people, vehicles or other equipment in the area that you need to think about? Do you need to get them moved out of the area? Do you need to set up barriers or signs?
- ◆ **Hazards** – Are there dangerous materials to work around or think about? Will you be working close to traffic or machinery?

1.2 Work Instructions

You also need to make sure you have all of the details about the kind of work you will be doing:

- ◆ The Task.
- ◆ Equipment and Materials.
- ◆ Communications.
- ◆ Procedures and Rules.



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- ◆ **The Task** – What type of road needs to be constructed? How big is it? How long will it take? Does it need any special materials?
- ◆ **Equipment and Materials** – What type of equipment will be used? How big is it? How much room does it need? Are there any special materials or chemicals that will be used?
- ◆ **Communications** – How are you going to communicate with other workers?
- ◆ **Procedures and Rules** – Do you need any special permits or licences? Are there site rules that affect the way you will do the work?

1.2.1 Reading and Checking Your Work Instructions

All work needs to follow worksite, environment and company safety procedures.

Procedures help to make sure that all work is done in a safe way, without damaging equipment or putting people in unsafe situations. They also help to make sure that work is done in the correct order and doesn't interrupt or get in the way of other work that is happening on the site.



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