

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.

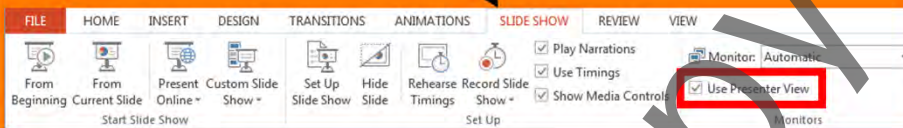
Evaluation Copy Only

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.



THH0006
**LICENCE TO OPERATE A
BRIDGE AND GANTRY CRANE**






**TRAINING
PRESENTATION**

Evaluation Copy Only

TECHNICAL

Training Presentation Sections

Click on a box to go to that section.

	Section 1: Prepare for Work
	Section 2: Prepare the Crane
	Section 3: Complete Crane Operations

Evaluation COPY ONLY

THH00006

Section 1:
Prepare for Work



Evaluation Only


TLILIC0006

1.1 Introduction

This training course is based on the National High Risk Licence Unit of Competency **TLILIC0006 Licence to Operate a Bridge and Gantry Crane.**

You will learn about:

- ◆ Planning the job.
- ◆ Selecting and inspecting equipment.
- ◆ Preparing the site and equipment.
- ◆ Performing the task.
- ◆ Shutting down the job.



This training course is based on the National High Risk Licence Unit of Competency **TLILIC0006 Licence to Operate a Bridge and Gantry Crane.**

You will learn about:

- ◆ Planning the job.
- ◆ Selecting and inspecting equipment.
- ◆ Preparing the site and equipment.
- ◆ Performing the task.
- ◆ Shutting down the job.

1.1 Introduction

The Unit of Competency specifies that:

A person undertaking this unit must hold a current National High-Risk Work Licence (HRWL) to perform dogging or a certification for a specific VET course for HRWL to perform dogging.




The Unit of Competency specifies that:

A person undertaking this unit must hold a current National High-Risk Work Licence (HRWL) to perform dogging or a certification for a specific VET course for HRWL to perform dogging.

1.1.1 What is a Bridge & Gantry Crane?

Bridge Crane
A bridge beam, mounted at each end to an end carriage, capable of travelling along elevated runways and having one or more hoisting mechanisms arranged to traverse across the bridge.



Bridge Crane – A bridge beam, mounted at each end to an end carriage, capable of travelling along elevated runways and having one or more hoisting mechanisms arranged to traverse across the bridge.

1.1.1 What is a Bridge & Gantry Crane?

Gantry Crane

A bridge beam, supported at each end by legs mounted on end carriages, capable of travelling on runways on supported surfaces or deck levels, and which has a crab with one or more hoisting units arranged to travel across the bridge.



Gantry Crane – A bridge beam, supported at each end by legs mounted on end carriages, capable of travelling on runways on supported surfaces or deck levels, whether fixed or not, and which has a crab with one or more hoisting units arranged to travel across the bridge.

TECHNICAL


1.1.1 What is a Bridge & Gantry Crane?

This unit includes the use of a bridge and gantry crane that is:

- ◆ Controlled from a permanent cabin or control station on the crane.

OR

- ◆ Remotely controlled and having more than 3 powered operations.

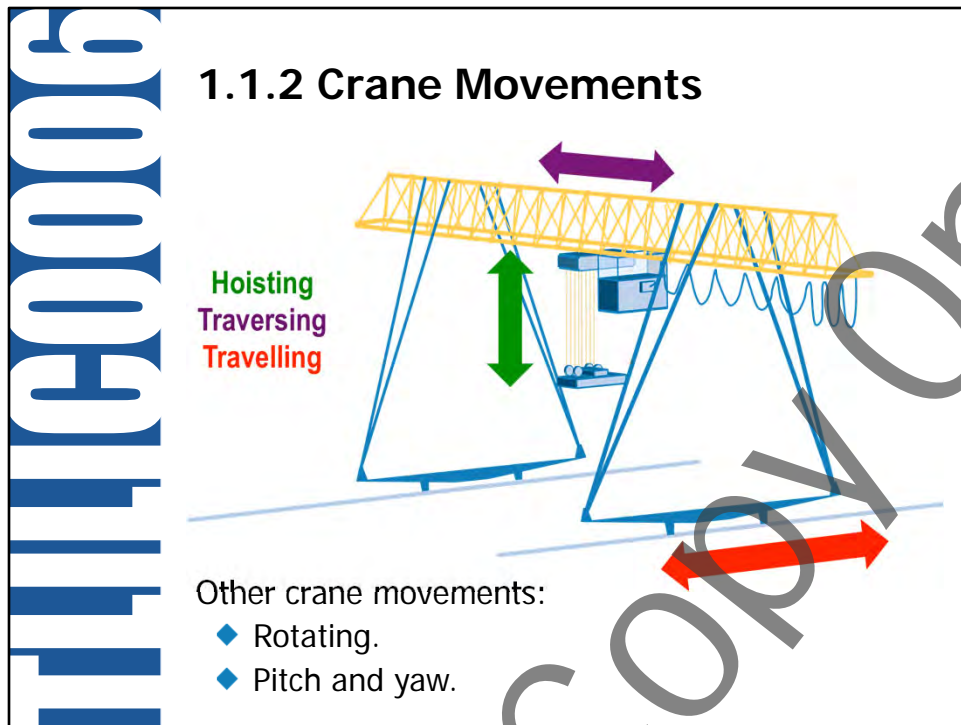


This unit includes the use of a bridge and gantry crane that is:

- ◆ Controlled from a permanent cabin or control station on the crane.

OR

- ◆ Remotely controlled and having more than 3 powered operations.



Common crane movements that you may use when shifting loads with a bridge and gantry crane include:

- ◆ **Hoisting** – The raising and lowering of the hook block using the hoist rope.
- ◆ **Traversing** – Moving the hoisting mechanism along the bridge.
- ◆ **Travelling** – The movement of the crane along the runway. Load swing can be reduced by travelling at a minimum speed and using gentle acceleration and braking.

Other crane movements may include:

- ◆ **Rotating** – A function that allows you to control the rotation of the load.
- ◆ **Pitch and Yaw** – Load movements that may be available depending on the crane in use.



Section 1 Review Questions

1. How would you minimise load swing when travelling a load?



Evaluation Copy Only

TECHNICAL

Section 1 Review Questions

1. How would you minimise load swing when travelling a load?

By travelling at a minimum speed and using gentle acceleration and braking.



Evaluation Copy Only



Section 1 Review Questions

2. What is meant by the crane movement term 'hoisting'?



Evaluation Copy Only

TECHNICAL

Section 1 Review Questions



2. What is meant by the crane movement term 'hoisting'?

Hoisting is the raising and lowering of the hook block using the hoist rope.

Evaluation Copy Only



Section 1 Review Questions

3. What is meant by the crane movement term 'traversing'?



Evaluation Copy Only

Section 1 Review Questions



3. What is meant by the crane movement term 'traversing'?

Traversing is the moving of the hoisting mechanism along the bridge.

Evaluation Copy Only



Section 1 Review Questions

4. What licence/qualification do you need to hold before you can apply for a bridge and gantry crane licence?



Evaluation Copy Only

TECHNICAL

Section 1 Review Questions



4. What licence/qualification do you need to hold before you can apply for a bridge and gantry crane licence?

A licence to perform dogging.

Evaluation Copy Only

1.2 Working Safely

You must follow all safety rules and instructions when performing any work. If you are not sure about what you should do, ask your boss or supervisor.



You must follow all safety rules and instructions when performing any work. If you are not sure about what you should do, ask your boss or supervisor. They will tell you what you need to do and how to do it in a safe way.