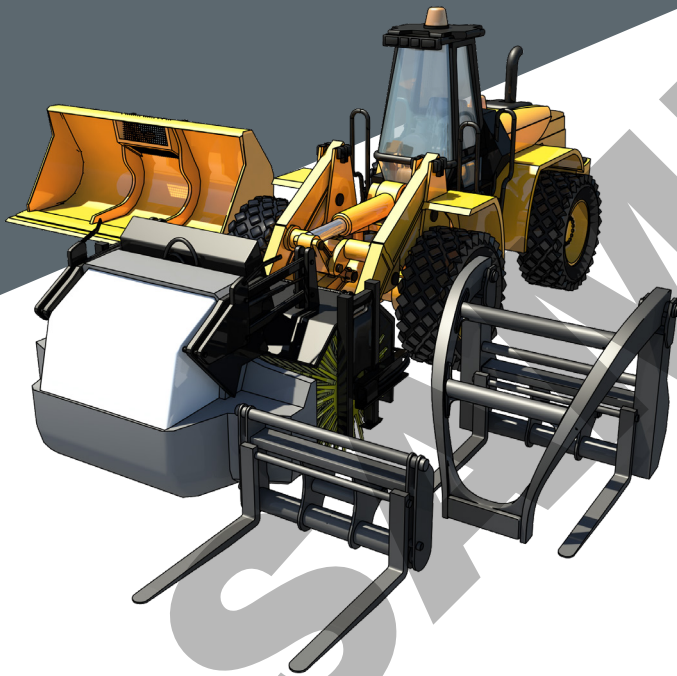


Trainer Value Pack



LEARNER **GUIDE**



Integrated Tool Carrier

RII COMPETENCY

Training support material for:
RIIHAN311F
Conduct operations with integrated tool carrier

Produced by:



Contents

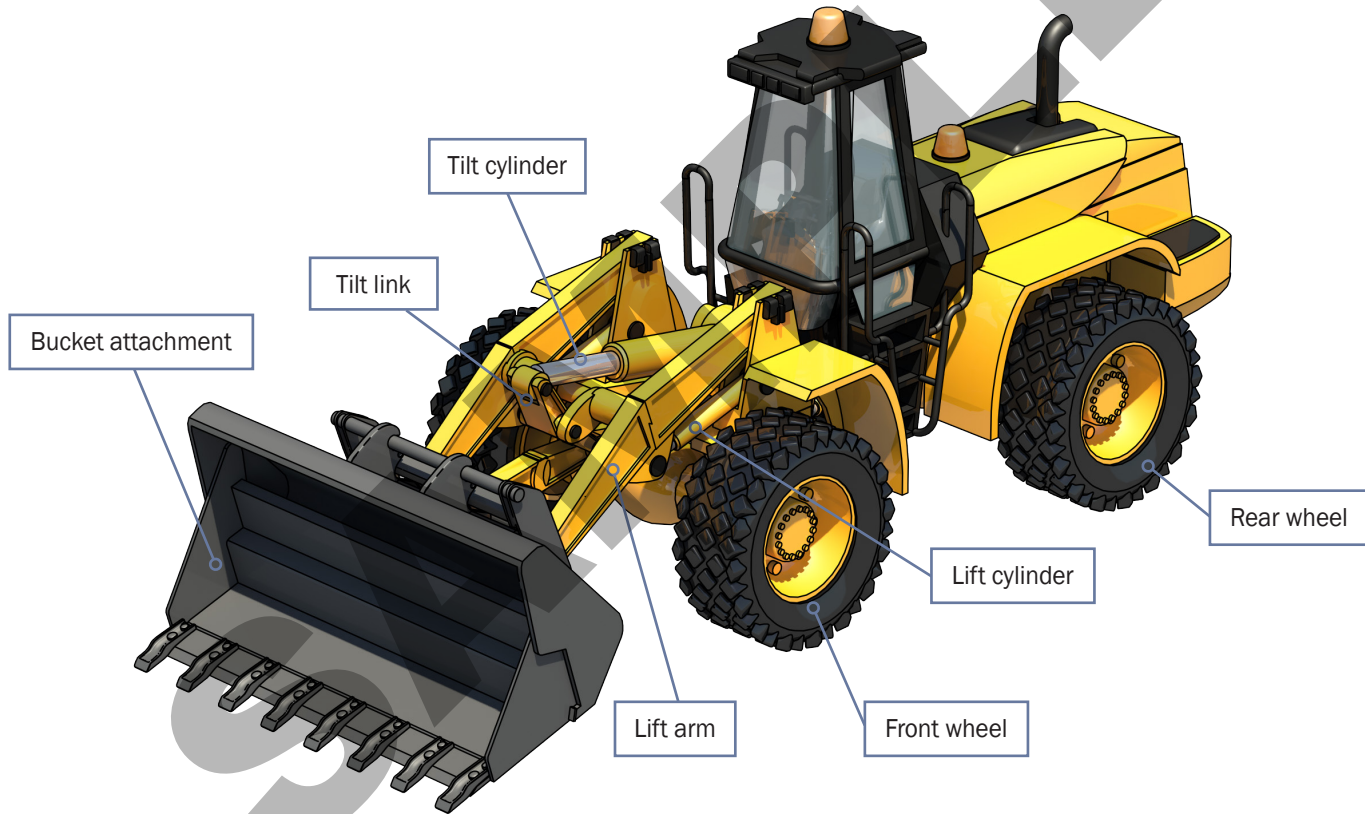
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Introduction to Integrated tool carrier



Example of an integrated tool carrier (ITC)

An integrated tool carrier (ITC) is a machine similar to a front end loader which has a quick release mechanism on the lift arms which allows the fast changing of various attachments without the need for hand tools or special equipment.



Plan and prepare for integrated tool carrier operations

Element 1



QUESTION 1

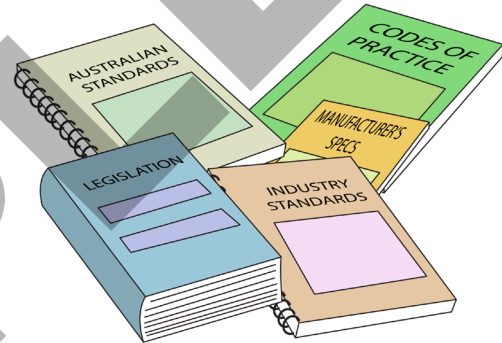
What are the National Work Health (WHS) and Occupational Health and Safety (OHS) Acts about?

The Acts explain how to keep your workplace **safe** and **healthy**. They explain what you need to do to meet your duty of care.

For example:

You must make sure you do earthmoving work in a way that won't put yourself or others at risk. You must use earthmoving equipment according to instructions.

Note:
Check your state requirements as Acts may vary from state to state

**QUESTION 2**

Under WHS/OHS laws, what are your responsibilities while working?

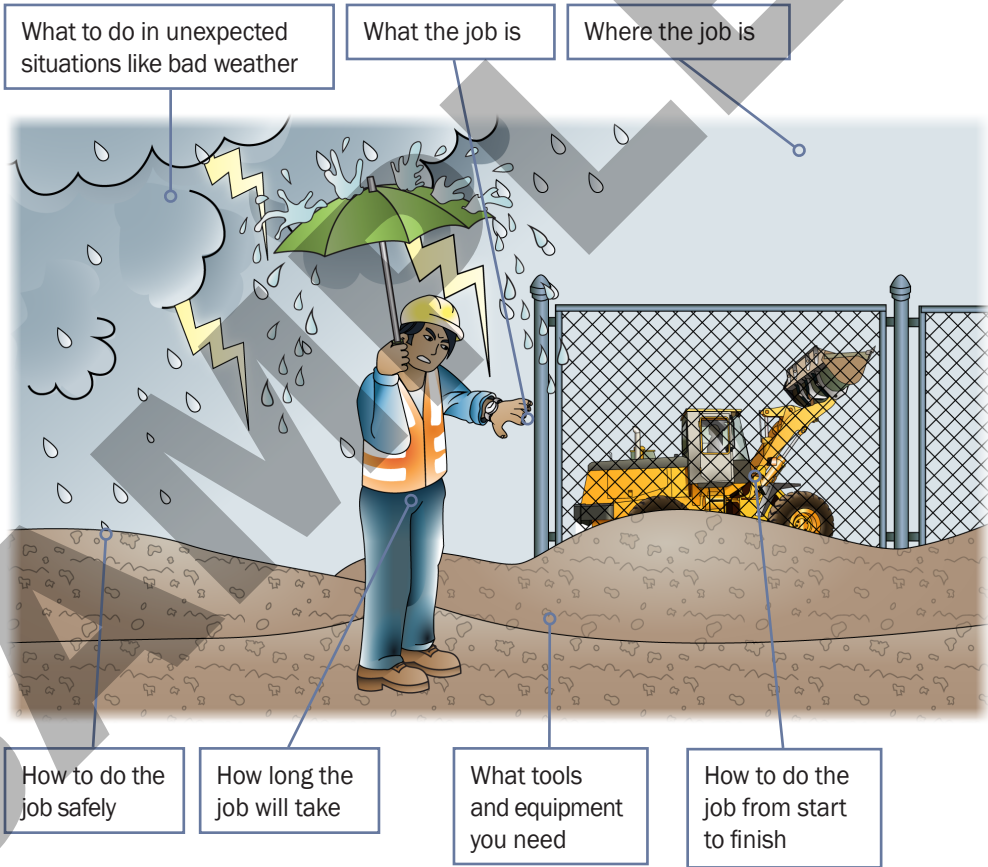
You must work in a way that is safe. You must not risk the health and safety of yourself or others.



QUESTION 9

What do the job's work instructions explain?

Work instructions explain:



Lift and move load

Element 2

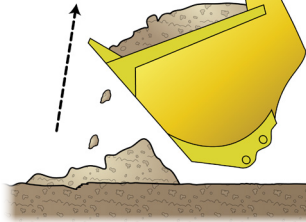


QUESTION 62

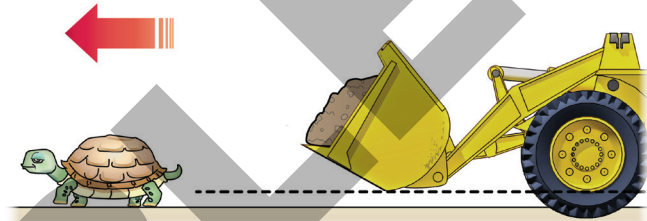
...CONTINUED FROM PREVIOUS PAGE

What steps do you take to safely pick up, move, and dump materials with a bucket?

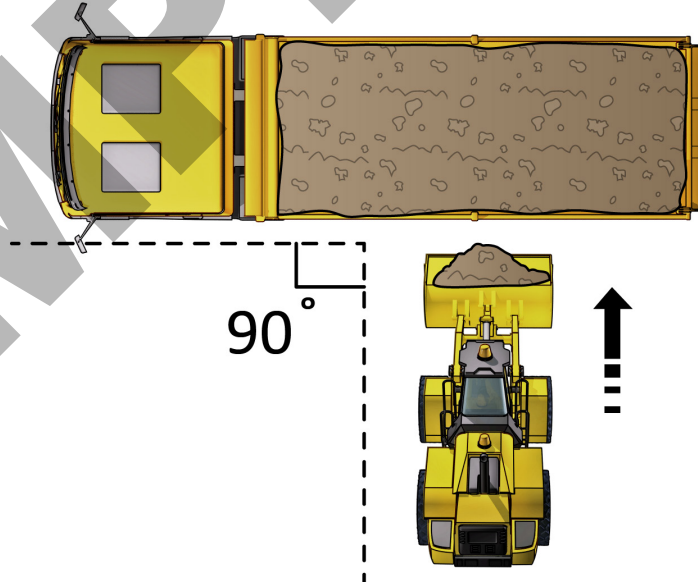
4. Pick up the load.



5. Move the load at low speed and with the bucket low.



6. Approach the truck or trench from a 90 degree angle.



...CONTINUES ON NEXT PAGE

Reversed eye sling

Reversed eye slings have eyes that are twisted 90 degrees to form a better choker hitch. This type of sling also sits better in the crane hook.



Wide load sling

A wide load sling is an endless sling that has been joined together down its length. The eyes can be flat or reversed.



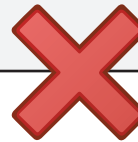
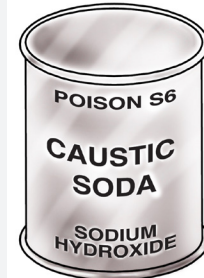
DO NOT

use nylon slings when working with acids as they can damage the sling.



DO NOT

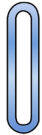







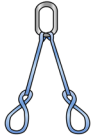
use polyester slings when working with alkaline like caustic soda as they can damage the sling.



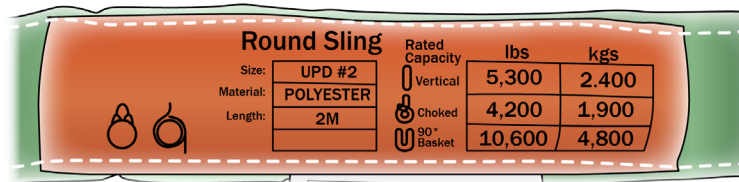
Synthetic webbing slings – working load limits (WLL)

There are two ways to find out the working load limit (WLL) for synthetic webbing slings:

1. Colour coding to Australian standards.

FLAT WEBBING SLINGS MANUFACTURED TO AS 1353 SAFETY FACTOR 8:1		ROUND SLINGS MANUFACTURED TO AS4497 SAFETY FACTOR 7:1								
Flat Webbing & Round Slings										
Webbing Slings & Round Slings 8:1 Safety Factor										
Lifting Mode Capacity		Vertical SWL	Choke SWL	Basket SWL	30° SWL	60° SWL	90° SWL	120° SWL	60° SWL	60° Choke SWL
Kg	Colour Code	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg
1000	Violet	1000	800	2000	1900	1700	1400	1000	1700	1400
2000	Green	2000	1600	4000	3800	3400	2800	2000	3400	2800
3000	Yellow	3000	2400	6000	5700	5100	4200	3000	5100	4200
4000	Grey	4000	3200	8000	7600	6800	5600	4000	6800	5600
5000	Red	5000	4000	10000	9500	8500	7000	5000	8500	7000
6000	Brown	6000	4800	12000	11400	10200	8400	6000	10200	8400
8000	Blue	8000	6400	16000	15200	13600	11200	8000	13600	11200
10000	Orange	10000	8000	20000	19000	17000	14000	10000	17000	14000

2. The label or tag attached to the sling.



QUESTION 86

You have the forklift attachment on the integrated tool carrier and you have to lift a bundle of pipe.

Who would you talk to about what attachment and lifting gear to use?

Talk to the dogger.



Relocate the integrated tool carrier

Element 3



QUESTION 96

Do you need a permit to drive a integrated tool carrier on a public road?

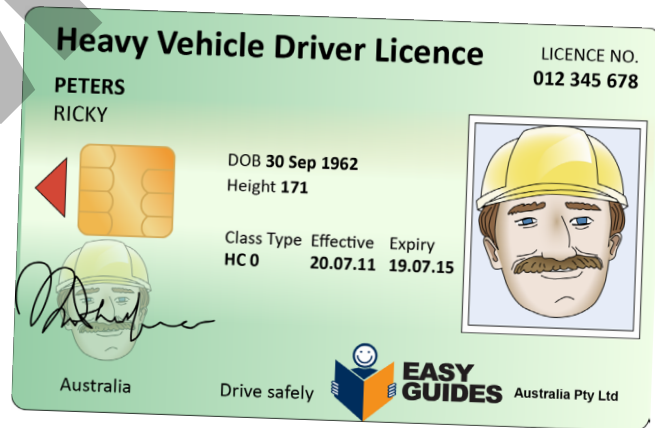
You might if the integrated tool carrier is too heavy, too long or too wide. Check with your local transport authority (for example, VicRoads or the RTA).



QUESTION 97

What kind of licence do you need to drive a integrated tool carrier weighing over 4.5 tonnes on a public road?

In most states/territories you will need a heavy vehicle licence. For example, a light rigid (LR) licence for 4.5–8 tonnes (8.5 in some states). Check the rules for your state/territory.



QUESTION 99

Why should you remove some attachments before travelling on a public road?

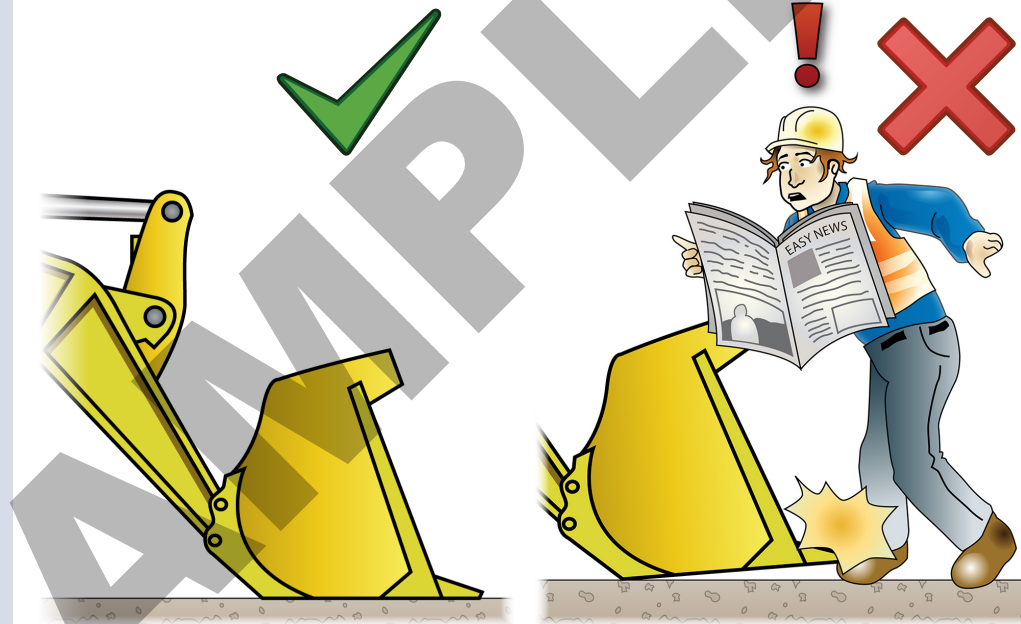
1. Other road users may not be able to clearly see the attachment.
2. The attachment may extend beyond the legal limit for the machine.
3. Most states have a limit of 1.2 metres of overhang or protrusion past the further most part of the front or rear of the vehicle body or frame (check with your state).



QUESTION 106

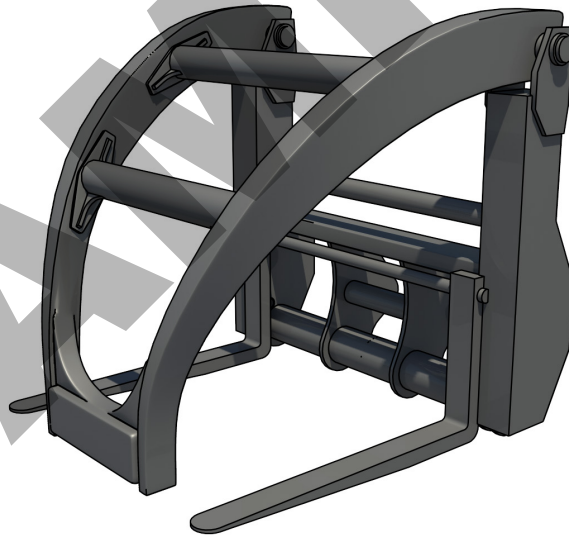
What do you do with the bucket before parking the integrated tool carrier?

Lower the bucket and make sure the cutting edge is touching the ground. If the cutting edge is too high, it might injure someone if they walk into it.



Select, remove and fit attachments

Element 4



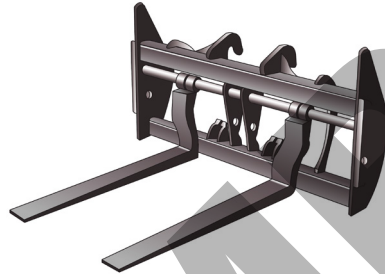
QUESTION 112

What are some other attachments you might use on an integrated tool carrier?

What do you use them for?

Pallet forks

The pallet fork has tines on it. You use it to lift loaded pallets. Check the SWL of the integrated tool carrier and attachment before you use this attachment.



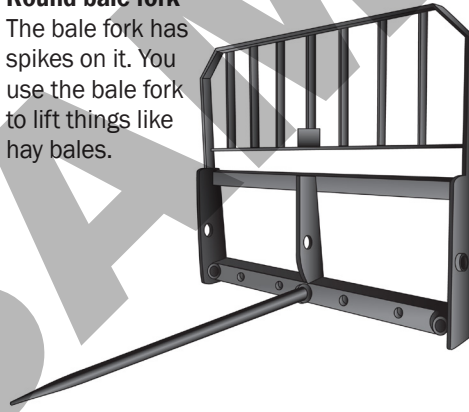
Hydraulic post hole digger

You use this to dig holes. It uses the hydraulics on the integrated tool carrier.

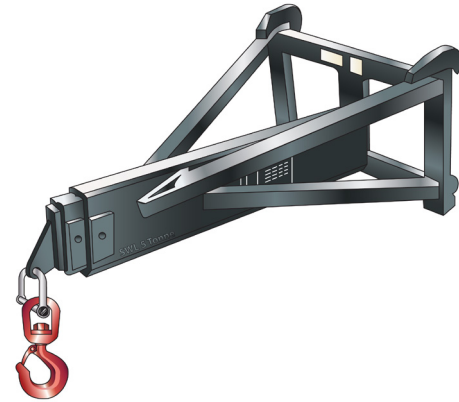


Round bale fork

The bale fork has spikes on it. You use the bale fork to lift things like hay bales.



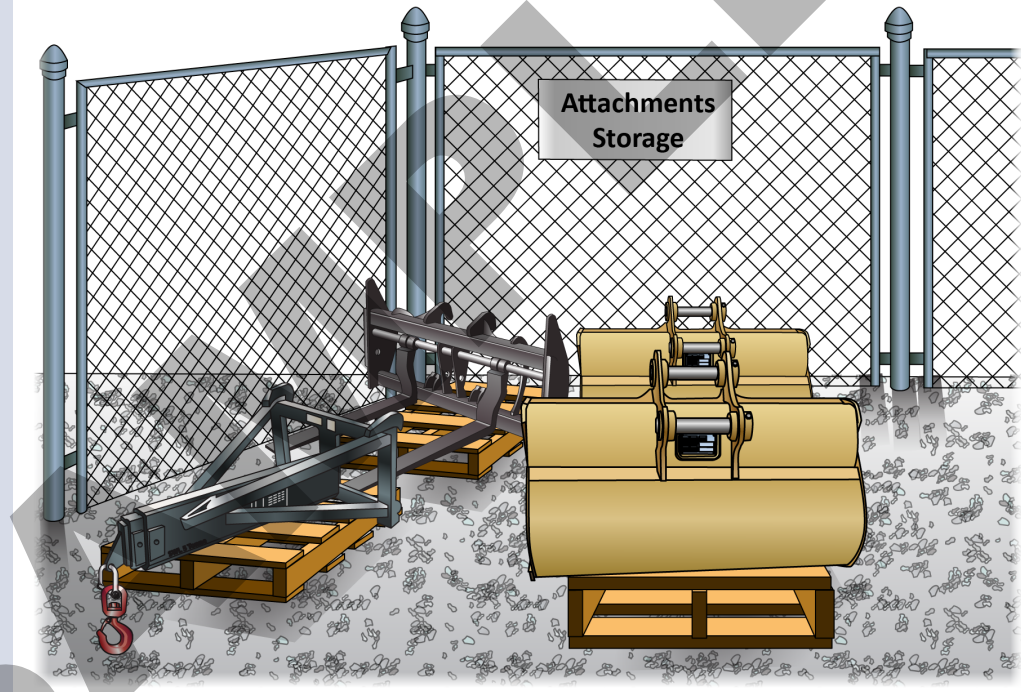
Jib attachment to lift loads



QUESTION 122

Where do you store the attachment when you have finished using it?

Your worksite should have a designated storage area for attachments. Ask your supervisor or a workmate.



End of Select, remove and fit attachments section

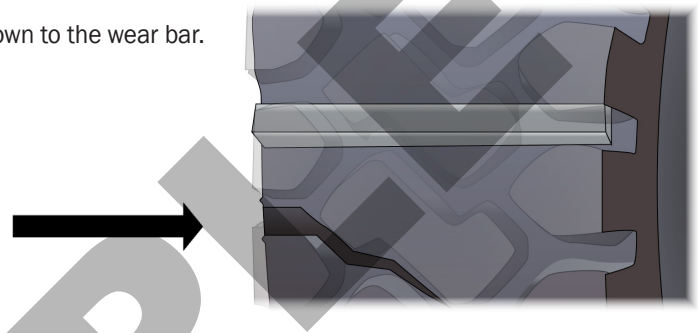
Carry out post-operational procedures



QUESTION 124

How do you know if the tyres are too worn?

Check and see if they are down to the wear bar. Look for bulges and cracks.



QUESTION 125

What do you do if you find a fault with the integrated tool carrier?

For example you might see a bulge in a hydraulic hose or a damaged radiator hose.

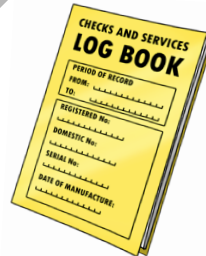
1. Stop working.



2. Tag out the machine.



3. Record the fault in the logbook or daily inspection checklist.



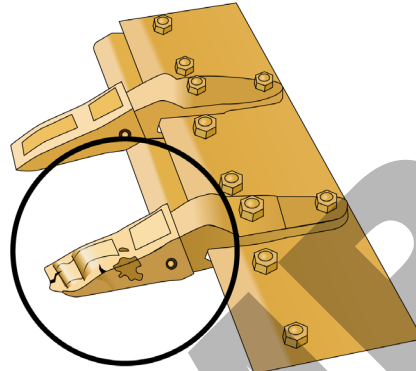
4. Report to your supervisor. Have the hose replaced.



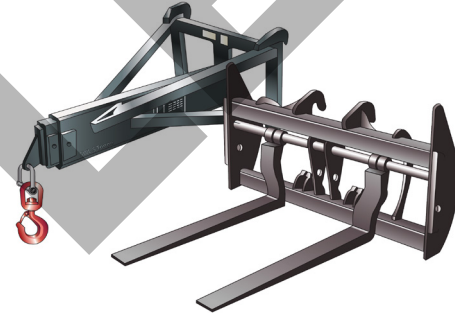
QUESTION 127

What are some common parts that wear or get damaged on an integrated tool carrier?

Teeth on the bucket or attachment



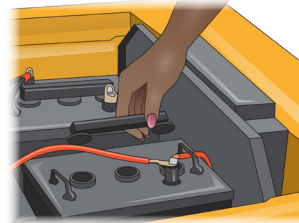
Attachment hooks or blades



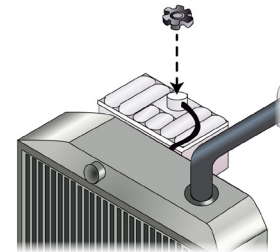
Engine might use too much oil or coolant



Check battery condition and fluid level



Radiator hoses



RIIHAN311F Conduct operations with integrated tool carrier. Review—Knowledge questions (Formative Assessment)



Elements

1. Plan and prepare for integrated tool carrier operations
2. Operate integrated tool carrier to lift and move load to complete work activity
3. Relocate the integrated tool carrier
4. Select, remove and fit attachments for an integrated tool carrier
5. Conduct housekeeping activities

This resource was developed by:



2. Plan and prepare for integrated tool carrier operations

Question 1 (PC 1.1)

What are some examples of documentation you may need to read before doing work with an integrated tool carrier? (List 4 examples)

.....

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.....

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Question 2 (PC 1.1)

What are the National Occupational Health and Safety (OHS) and Work Health and Safety (WHS) acts about?

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Question 3 (PC 1.2)

What do the job's work instructions explain? (List 3 things)

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Question 4 (PC 1.3,1.5,1.7)

What does the site safety plan tell you? (List 3 things)

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Question 5 (PC 1.3)

What personal protective equipment must you wear when using any earthmoving equipment?
(List 2 items of PPE).

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Question 6 (PC 1.5)

What kinds of tools and equipment might you use when doing work with an integrated tool carrier? (List 4)

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Question 7 (PC 1.4, 3.2)

Where do you put up warning signs? (List 2)

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Question 8 (PC 1.4, 3.2)

What does the traffic management plan (TMP) tell you?

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Question 9 (PC 1.4, 3.2)

What can you do to control traffic in and around a worksite? (List 5)

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Question 10 (PC 1.4)

What are some things the environmental management plan (EMP) tells you? (List 2)

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Question 11 (PC 1.4)

What are some hazards you must look for before starting work? (List 6)

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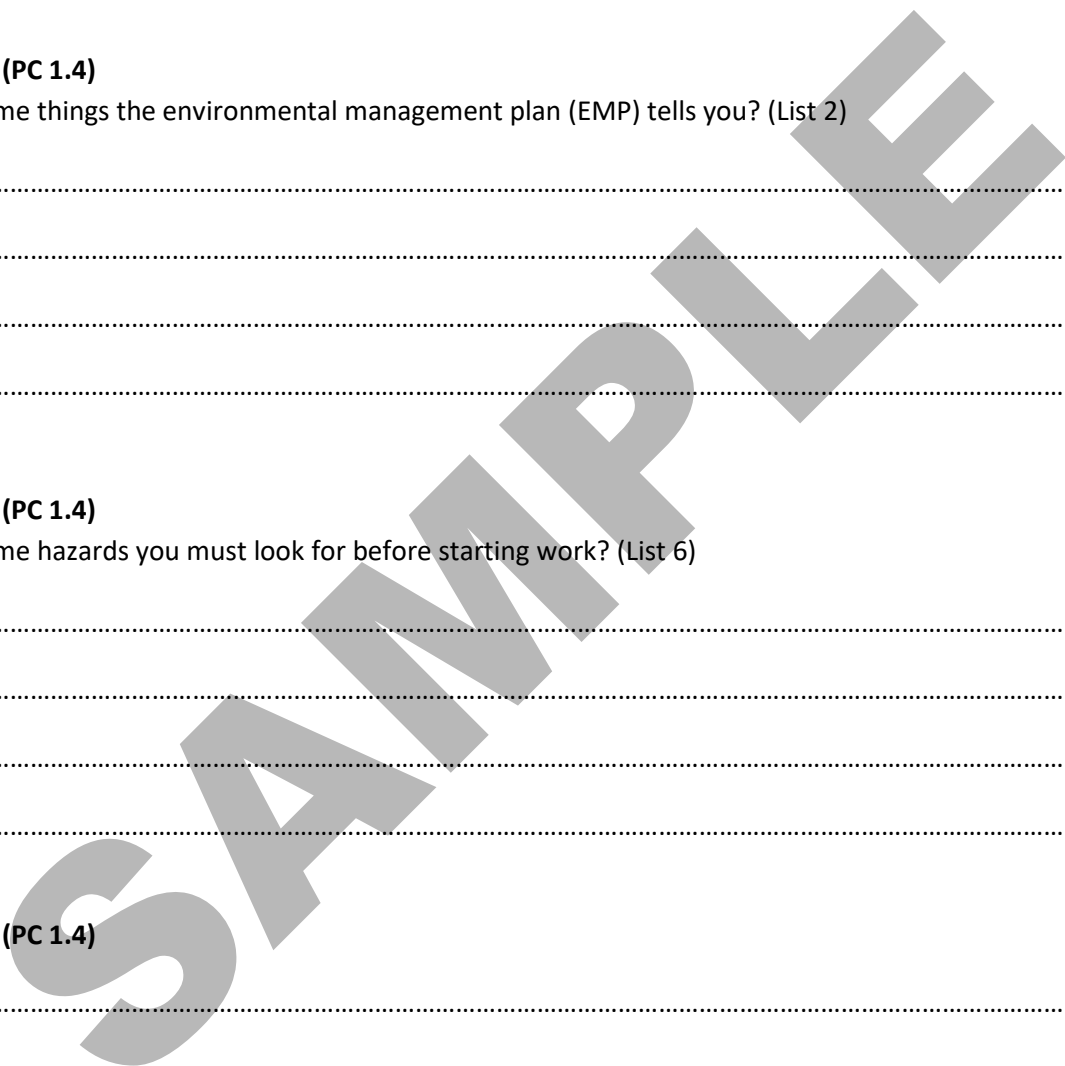
Question 12 (PC 1.4)

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Question 13 (PC 1.4, 4.3)

You should not lift people on the attachment that is not designed and approved to raise personnel. Why?

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Question 14 (PC 1.4)

What are some hazards you must look for while you are on the worksite?

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Question 15 (PC 1.4)

You are required to lift and move a load near a pedestrian footpath. How can you stop people being endangered?

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Question 16 (PC 1.4)

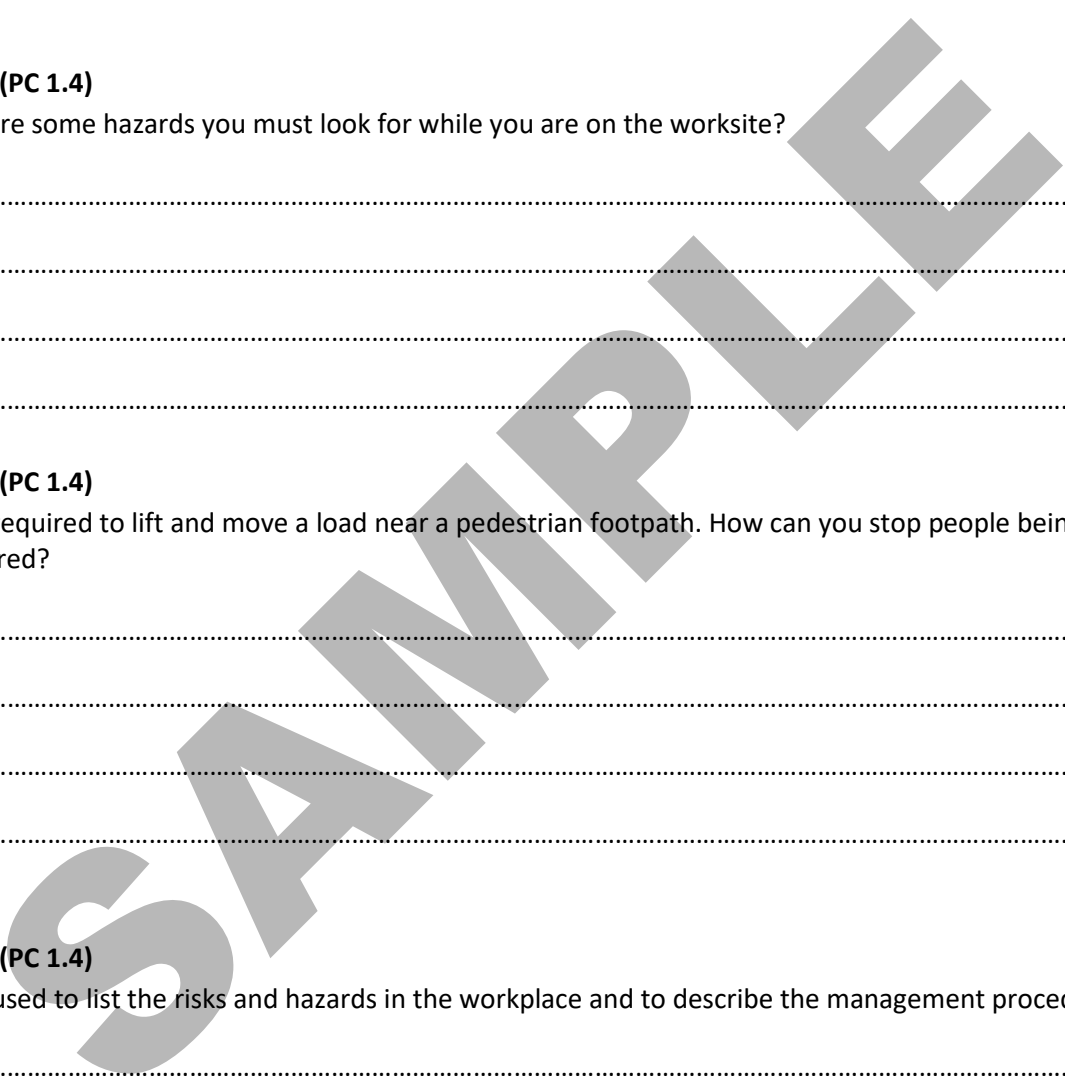
What is used to list the risks and hazards in the workplace and to describe the management procedure?

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Question 29 (PC 2.5)

What should you do to safely operate an integrated tool carrier?

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Question 30 (PC 2.6, 2.7)

When lifting a load with an Integrated tool carrier using slings, who would you get directions from when making sure a load is secure and stable before moving?

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Question 31 (PC 2.8)

Write the meaning of each hand signal below (Boom, lift or arms are acceptable answers)

		
A.	A.	A.

Question 32 (PC 1.1, 2.9)

What are some of the documents you may be required to fill in when using an integrated tool carrier?
(List 2)

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Select, remove, fit and use attachments for an integrated tool carrier

Question 38 (PC 4.1)

What are some attachments that could be used with an integrated tool carrier and what they could be used for. (List 3)

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Question 39 (PC 4.2)

How do you make sure the bucket is properly attached to the integrated tool carrier and won't come off?

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Question 40 (PC 4.2)

What checks do you make after fitting an attachment before lifting or shifting a load?

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Question 41 (PC 4.2)

What must you check when changing attachments to do a different job with a machine?

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Score for assessment

RIIHAN311F Conduct operations with integrated tool carrier

Knowledge Assessment	
Correct answers:	_____ / 47
PASS	40+ answers correct
Percentage:	
Result (circle):	Satisfactory Not satisfactory
Trainer/supervisor name:	
Trainer/supervisor ID:	
Signature:	
Student name:	
Student ID	
Student signature:	



Assessor comments to clarify assessment results:

.....

.....

.....

If you have any questions about your results, speak to your trainer/supervisor.

RECORD OF TRAINING LOGBOOK

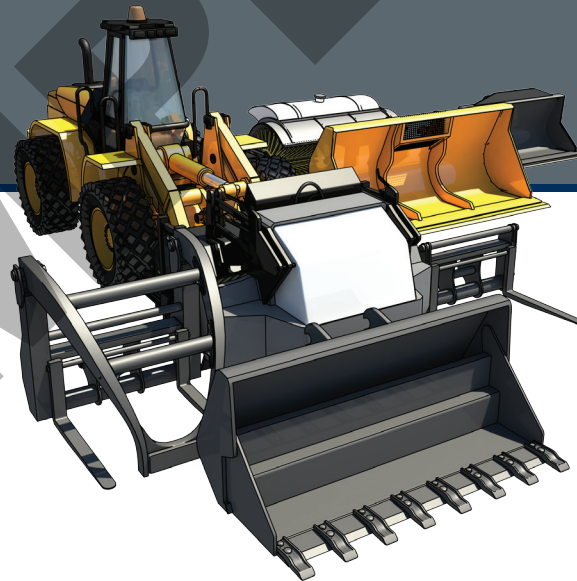
Integrated Tool Carrier

Verification of
competency (VOC)

RIIHAN311F
Conduct operations with
integrated tool carrier



www.easyguides.com.au



This book can also be used as an evidence record of recognition of prior learning (RPL)
and as evidence of formative assessment tasks

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Part 2—Operate integrated tool carrier to lift and move load to complete work activity	25
Part 3—Relocate the integrated tool carrier	45
Part 4—Select, remove and fit attachments for an integrated tool carrier	51
Part 5—Conduct housekeeping activities	61
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SAMPLE

Complete operations

(PC 3.1)

Prepare integrated tool carrier for relocation.

Obtain details of relocation method and new location.

Clean the machine and attachments.

Contact transport vehicle company with details of the machine and attachment to be relocated or check the machine is suitable and compliant with laws for driving to a new location.

Description of work/training performed

I unloaded the two trucks and packed goods at positions where they will be used along the trench. I then placed excess goods in the storage shed.

I checked that the machine was ready for use. I then got work instructions and checked out the work needed. Then I checked the attachment and used the bucket to clear debris and excess over burden ready for a trench. I then refuelled the machine, parked it and completed documents.

I checked the machine. Then I fitted the jib attachment. I then moved pipes and laid them into position with a dogman, using hand and whistle signals. I then refuelled, parked the machine and completed documents.

Date/time	No. of hours	Machine details	Supervising person
Date: <u>17 / 6 / 2020</u> Start time: <u>10:00</u> am <u>11:30</u> pm	90 minutes	Make: <u>Caterpillar</u> Model: <u>IT 14G</u> Serial No: <u>1KF00024</u> Max Capacity: <u>4447 kg (forks)</u> Span:	Name: <u>Fred Shifter</u> Signed: <u>Fred Shifter</u> Class: <u>ITC</u> Cert No: <u>V7253762</u> State of Issue: <u>VIC</u> Issue Date: <u>26 / 01 / 2015</u> Expiry Date: <u>26 / 01 / 2018</u>
Date: <u>29 / 6 / 2020</u> Start time: <u>11.45</u> am <u>12.30</u> pm	45 minutes	Make: <u>Caterpillar</u> Model: <u>IT 12G</u> Serial No: <u>1KF001024</u> Max Capacity: <u>3276 kg (bucket)</u> Span:	Name: <u>Robert Battey</u> Signed: <u>R. Battey</u> Class: <u>ITC</u> Cert No: <u>V72591912</u> State of Issue: <u>VIC</u> Issue Date: <u>26 / 01 / 2015</u> Expiry Date: <u>26 / 01 / 2018</u>
Date: <u>30 / 6 / 2020</u> Start time: <u>8:00</u> am <u>4:00</u> pm	8 hours	Make: <u>Caterpillar IT4G</u> Model: <u>IT 14G</u> Serial No: <u>1KF00024</u> Max Capacity: <u>3154 kg (jib)</u> Span: <u>5168 mm</u>	Name: <u>Jim Touchie</u> Signed: <u>Jim Touchie</u> Class: <u>ITC</u> Cert No: <u>V72522135</u> State of Issue: <u>VIC</u> Issue Date: <u>26 / 01 / 2015</u> Expiry Date: <u>26 / 01 / 2018</u>

Plan and prepare for integrated tool carrier operations



1

Plan and prepare for integrated tool carrier operations

(PC 1.1)

Access, interpret and apply integrated tool carrier documentation.

Make sure your work activities with the integrated tool carrier are compliant by checking documents like manufacturer's guidelines, specifications and standards.

Description of work/training performed

SAMPLE

Date/time	No. of hours	Machine details	Supervising person
Date: Start time: am pm		Make: Model: Serial No: Max Capacity: Span:	Name: Signed: Class: Cert No: State of Issue: Issue Date: Expiry Date:
Date: Start time: am pm		Make: Model: Serial No: Max Capacity: Span:	Name: Signed: Class: Cert No: State of Issue: Issue Date: Expiry Date:
Date: Start time: am pm		Make: Model: Serial No: Max Capacity: Span:	Name: Signed: Class: Cert No: State of Issue: Issue Date: Expiry Date:

Operate integrated tool carrier to lift and move load to complete work activity



Lift and move load

(PC 2.1)

Carry out pre-start and start-up checks in line with workplace procedures

Check integrated tool carrier to make sure everything is in good working order.

Description of work/training performed

SAMPLE

Date/time	No. of hours	Machine details	Supervising person
Date: Start time: am pm		Make: Model: Serial No: Max Capacity: Span:	Name: Signed: Class: Cert No: State of Issue: Issue Date: Expiry Date:
Date: Start time: am pm		Make: Model: Serial No: Max Capacity: Span:	Name: Signed: Class: Cert No: State of Issue: Issue Date: Expiry Date:
Date: Start time: am pm		Make: Model: Serial No: Max Capacity: Span:	Name: Signed: Class: Cert No: State of Issue: Issue Date: Expiry Date:

Relocate the integrated tool carrier

