

Enter and work in confined spaces

RIIWHS202E

Learner Workbook

Student Copy

(Formative Assessment)



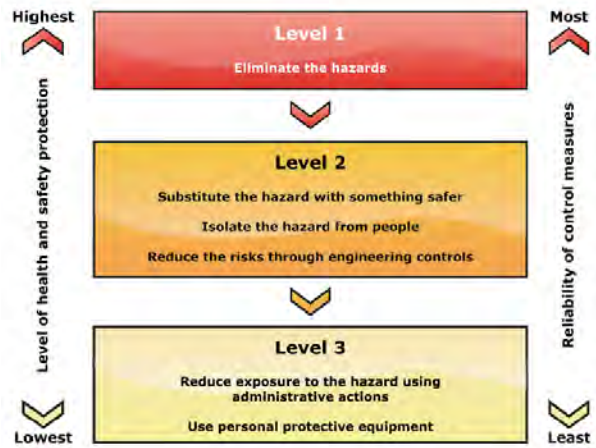
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Knowledge Evidence Questions.....	5
Score for Knowledge Assessment.....	21
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SAMPLE

Question 3 (PC 1.3)

The Hierarchy of Hazard Controls has six steps to follow to control hazards. The first (and most effective) is elimination. List the other five.



Question 4 (PC 1.1)

Before you start work, what should you check so you know what to do?



Question 5 (PC 1.2)

What documents (paperwork) will help you work out the safety needs of the worksite?



Question 6 (PC 1.3, 1.4)


Why do you need to check the risk assessment against the entry permit before starting work?



Question 7 (PC 1.4, 2.6)


Why do you need an Entry Permit to work in a confined space?



<p>Question 8 (PC 1.7) If you are an employer and you decide an area is a confined space, what must you do to warn people?</p>	
<p style="text-align: center; font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">SAMPLE</p>	

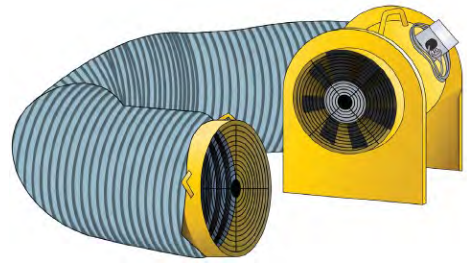
Question 9 (PC 2.2)

What type of tests/inspections should be carried out on a confined space before a work permit can be issued?

<p>Question 9 (PC 2.2) What type of tests/inspections should be carried out on a confined space before a work permit can be issued?</p>	
<p style="text-align: center; font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">SAMPLE</p>	

Question 21 (PC 2.2, 2.3, 2.4)

You may need to heat a space before workers can enter it. What other things might you do to prepare a confined space for entry?



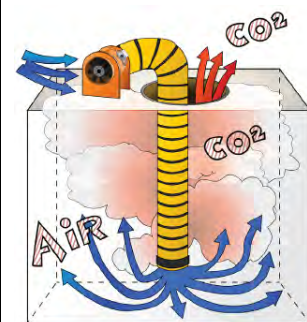
Question 22 (PC 1.3, 2.3)


What can you do to isolate a hazard?



Question 23 (PC 2.6)

What does purging a confined space mean?

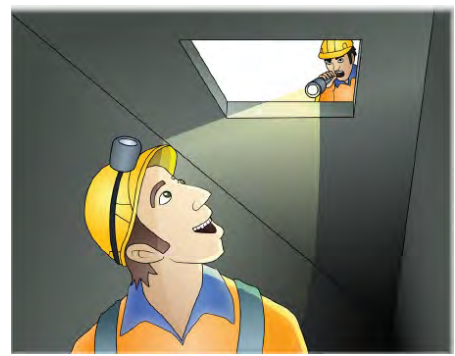


<p>Question 24 (PC 2.5) Why do confined space teams need a standby person?</p>	
<p style="text-align: center; font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">SAMPLE</p>	

<p>Question 25 (PC 1.6, 2.5) Q) You are the standby person and you see a worker has collapsed inside the confined space. What do you do? (Tick the right answer)</p> <p>a) Rush into the confined space to rescue the worker; or b) Immediately put the emergency response / rescue plan into action.</p>	<p style="text-align: center; font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">SAMPLE</p>
<p style="text-align: center; font-size: 48px; opacity: 0.3; transform: rotate(-45deg);">SAMPLE</p>	

Question 26 (PC 1.6, 2.5)

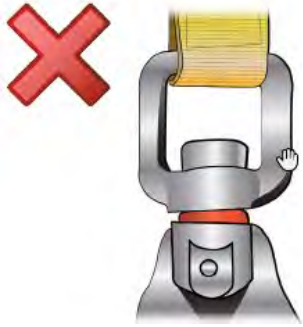
Q) How does the standby person communicate with workers in the confined space?

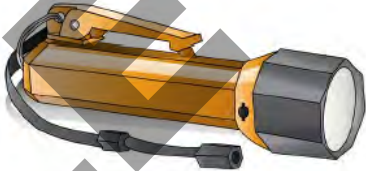


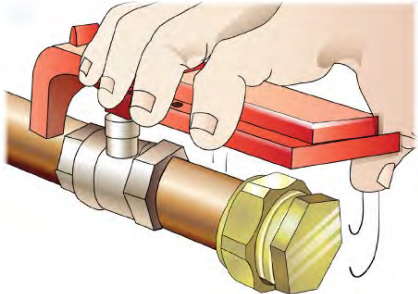
Question 27 (PC 1.1)

(Q) Circle as True or False the following statements about fall arrest safety equipment:

a) Use a personal energy absorber if your fall arrest safety equipment does NOT have one built in.	Yes / No
b) Use a personal energy absorber when you are using a retractable lanyard.	Yes / No
c) Never use a personal energy absorber if the lanyard has a built-in energy absorber.	Yes / No
d) Never use a personal energy absorber when you are using an inertia reel or retractable lanyard.	Yes / No

<p>Question 28 (PC 1.8)</p> <p>The equipment you need to use is damaged and unusable, what should you do?</p>	

<p>Question 29 (PC 1.5)</p> <p>When should you make sure you are using intrinsically safe equipment? Why?</p>	

<p>Question 30 (PC 3.1, 3.2, 3.3, 3.4, 3.5)</p> <p>List some steps you must take as you finish the job and leave a confined space.</p>	

Score for Knowledge assessment

RIIWHS202E Enter and work in confined spaces



Knowledge Assessment	
Correct answers:	_____ / 38
PASS	30+ 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.







Enter and work in confined spaces

RIIWHS202E

Practical Evidence Tasks

(Formative assessment)



	
<p>Inspecting a sewer</p>	<p>Entering a silo to clear a blockage below</p>
	
<p>Unloading a shipping container by hand</p>	<p>Unloading a shipping container using a petrol forklift truck</p>
	
<p>Entering a trench to retrieve a shovel</p>	<p>Entering a trench to do some plumbing using primer and glue</p>
<p>Your confined spaces training area. Your trainer will show you this area.</p>	

	Confined Space Criteria					Confined space?
	For the work area to be considered a 'confined space', you must answer 'YES' to all 3 of the following, and, any one of the following					
Description of the space and work	A	B	C	D		If you answer yes to A, B, C and at least one of D, then the space is a confined space.
	Is the space enclosed or partially enclosed?	Is the space not designed or intended to be occupied by a person?	Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	Does the space represent a risk from:		
				Harmful airborne contaminants	An unsafe oxygen level	Engulfment
Inspecting a sewer						
Entering a silo to clear a blockage below						
Unloading a shipping container by hand						
Unloading a shipping container with a petrol powered forklift truck						
Entering a trench to retrieve a shovel						
Entering a trench to do some plumbing using primer and glue						
Your confined spaces training area						

Practical task 3

Work requirements, procedures and instructions worksheet (PC 1.1, 1.2, 1.5, 2.1, 2.4)

This is a group task. Your trainer will describe a type of work, and show you a work area. Discuss the following questions with your group, and write down the answers below. When you have finished, complete your own JSEA or SWMS.

<p>What paperwork, documents or work permits do you need to fill out before you start this work? (eg: site induction forms, hot work, SDS (which used to be called MSDS) if you are using chemicals, confined spaces entry permit, etc)</p>
<p>Think about the hazards and risks with this type of work. You will plan for confined spaces hazards later. What are the dangers or risks of this type of work if you did this work in a normal workplace?</p>
<p>How will you reduce or minimise these risks?</p>
<p>What are the hazards (dangers) with doing this work in a confined space?</p>

What PPE do you need for this type of work?
Are there any dangers that require isolation? How will you isolate these hazards?
How will you access the work area? (eg: ladder, stairs, temporary work platform, etc)
What tools and equipment will be needed for this job?
How will you move tools and equipment to the work area? (eg: conveyor, lower tools down in a bucket)
What signs and barricades do you need to keep people safe around the space?
Sometimes the confined space might have its own dangers. Do you need any signs or barricades to warn people of specific dangers? (eg: heat/cold, gasses, noise, etc)

Practical task 4

Emergency Plan (PC 1.6)

In this task, you will work in a group of 3-4 to write an emergency plan. Your plan must let you rescue someone who is injured or unconscious in the confined space. As part of this plan, you will also need to inspect equipment, anchor points and/or static lines, and recommend the best course of action if something does not pass your checks.

For this task, you will assume that workers will connect to a harness system. Each person in the group must take on part of the responsibility for the rescue. You must fill out each section of the rescue plan. You should make sure you could rescue someone as quickly as possible.

What you need for this task

- Tour of the work area
- Pen
- Paper
- Emergency plan template
- Rescue equipment (this may be static lines, lanyards, harnesses, inertia reels, energy absorbers, etc. Your trainer will advise what is available)

How to do this task		✓
1	Start at the top of the rescue plan and fill out the emergency contact, type of work and workers details. For this exercise, you can be a rescuer and a worker.	
2	Work out who will be in charge of what part of the rescue. In some cases, the same person can be responsible for a couple of things. For example; the person responsible for calling the ambulance, can also administer first aid once the person has been rescued.	
3	In the rescue tasks, fill out each section and work out how much time each step would take. Add up all the steps and make sure you can rescue someone as quickly as possible.	
4	Conduct pre-work inspections of all the equipment you will use for the work. This should include any harness, lanyard, energy absorber, anchor points, etc	
5	Discuss the First Aid and Treatment requirements, and make sure all workers are aware of the correct treatments.	
6	Put your harness on and make sure it fits correctly. Check the other members of your team.	
7	Do the final checks and have your trainer sign off for approval	

Emergency Rescue Plan

10012

This Emergency Rescue plan can be purchased at www.easyguides.com.au - or phone 1300 733 220.
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Emergency Contact ☎ 000	
Other emergency numbers:	
Site address:	
Nearest cross road (other directions):	
Site access information: (level, floor, entrances, etc):	
Access point for emergency services:	

WORK DETAILS (TYPE OF WORK BEING PERFORMED)	
WORKERS NAMES	CONTACT INFO

PRE WORK EQUIPMENT CHECKS (TO BE INITIALED BY PERSON CHECKING THE EQUIPMENT)							
Anchor points	Initial:	Static lines	Initial:	Lanyards	Initial:	Harnesses	Initial:
EWP	Initial:	Inertia reels/lifelines	Initial:	Tripod	Initial:	Scaffold	Initial:
Snap hooks/karabiners	Initial:	Ropes/Slings	Initial:	Energy absorbers	Initial:	Trauma straps	Initial:
OTHER	Initial:		Initial:		Initial:	Gas Monitors/B.A	Initial:
	Initial:		Initial:	Name:		Signature:	

WHO IS IN CHARGE OF:	NAME	CONTACT INFORMATION
The rescue (primary contact)		
Contacting emergency services		
Stand-by person (observing if a fall occurs)		
Ensuring rescuers are safe		
First Aid (including suspension trauma treatment)		

RESCUE TASKS	DETAILS OF STEPS IN RESCUE	PEOPLE RESPONSIBLE (NAME AND CONTACT)	EQUIPMENT NEEDED FOR RESCUE	TIME NEEDED
Does equipment need to be set up or moved before you can perform the rescue?	Practiced and timed: Yes/No		Equipment tested: Yes/No	:
What are the steps to rescue the person?	Practiced and timed: Yes/No		Equipment tested: Yes/No	:
Other factors: <i>Layout of building, access problems, weather conditions, language barriers, etc.</i>	Practiced and timed: Yes/No		Equipment tested: Yes/No	:
If the person is injured or unconscious, will this affect your ability to rescue them?	Practiced and timed: Yes/No		Equipment tested: Yes/No	:
TOTAL TIME NEEDED FOR RESCUE :				:

EQUIPMENT NEEDED FOR RESCUE (TO BE INITIALED BY PERSON CHECKING THE EQUIPMENT)							
Rescue ladder	Initial:	Static lines	Initial:	Lanyards	Initial:	Harnesses	Initial:
EWP	Initial:	Inertia reels/lifelines	Initial:	Tripod/scaffold	Initial:	Winches	Initial:
Snap hooks/karabiners	Initial:	Ropes/Slings	Initial:	Energy absorbers	Initial:	Trauma straps	Initial:
First Aid kit	Initial:	Crane	Initial:	Spreader bars	Initial:	Stretcher	Initial:
OTHER	Initial:	Gas Monitors/B.A	Initial:	Name:		Signature:	

COMMUNICATIONS TASKS	COMMUNICATIONS METHOD	TESTED?	FINAL CHECKLIST (to be done immediately before work commences)	
Communication during work		YES / NO	All fall restraint/arrest equipment and anchor points are checked	YES / NO
Stand-by Person to raise alarm		YES / NO	Harnesses have been checked and fitted correctly	YES / NO
Rescuers will communicate		YES / NO	Rescue equipment is set up and in place	YES / NO
Trapped/suspended person		YES / NO	First aid procedure is in place	YES / NO
Emergency services contacted		YES / NO	Workers are aware of roles and responsibilities for the rescue	YES / NO

Written by:	Authorised by:
Signature: Date: / / 20	Signature: Date: / / 20

WORK DETAILS, PEOPLE AND EQUIPMENT

RESCUE PLAN, PEOPLE AND EQUIPMENT

FINAL CHECKS

Practical task 5

Part 2 - Gas testing (PC 2.2)

In this task you will use gas testing equipment to test the entrance of a confined space. You will check and calibrate your gas monitor. Test for carbon monoxide and hydrogen sulphide. You will test the oxygen levels, and the flammability range. You will record the test results as you go on your confined space entry permit.

What you need for this task

- Gas testing/monitoring equipment
- Calibration equipment
- Description of work
- Confined space entry permit

How to do this task		✓
1	Get your personal gas monitor. (see your trainer)	
2	Inspect the gas monitor for faults, battery life, your instructor will show you what to look for.	
3	Calibrate your gas monitor. (see your trainer)	
4	Fill out the details of the gas monitor on your confined space entry permit. Include the ID, battery checks and calibration details.	
5	Move to the work area.	
6	Test the air around the opening of the confined space for gasses. Record the results.	
7	Open the lid/door to the opening. Test the air escaping from the opening for gasses. Record the results.	
8	Correctly apply tagging and lock-out procedures	
When your trainer says to do so:		
9	Test the air at the top, bottom and middle of the space.	
10	Record the results.	
11	Discuss the gas tests with your group and your trainer.	

Confined Space Entry Permit

Number: 110012

This Confined Spaces Entry Permit can be purchased at www.easyguides.com.au - or phone 1300 733 220
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Location of Work: _____ _____ _____	Type of Work: _____ _____ _____
Site / Hatch / Area ID: _____	
Work Is Authorised for: Date: _____ Time: _____	Authorised by: _____ Signed: _____ Date: / /

PEOPLE AUTHORISED TO ENTER CONFINED SPACE	Trained	Entry		Exit	
		Time	Signed	Time	Signed
(Person in Control)	<input type="checkbox"/>	:		:	
(Standby Person)	<input type="checkbox"/>	:		:	
	<input type="checkbox"/>	:		:	
	<input type="checkbox"/>	:		:	
	<input type="checkbox"/>	:		:	

EXPECTED HAZARDS OF SPACE			
<input type="checkbox"/> Unsafe oxygen levels	<input type="checkbox"/> Risk of engulfment	<input type="checkbox"/> Fumes or gasses	<input type="checkbox"/> Explosive environment
<input type="checkbox"/> Slips / Trips / Falls	<input type="checkbox"/> Heat / Cold	<input type="checkbox"/> Airborne Contaminants	<input type="checkbox"/> Manual handling
<input type="checkbox"/> Biohazards	<input type="checkbox"/> Mechanical / Electrical	<input type="checkbox"/> Poor lighting	<input type="checkbox"/> Steam / Water / Gas
		<input type="checkbox"/> Noise levels	<input type="checkbox"/> Hot work
Other: _____			

VENTILATION METHOD	<input type="checkbox"/> Natural	<input type="checkbox"/> Purging	<input type="checkbox"/> Inerting	<input type="checkbox"/> Other	Details: _____
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(P.P.E.) REQUIRED	<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Gloves
<input type="checkbox"/> Protective Clothing	<input type="checkbox"/> Harness/Lifeline	<input type="checkbox"/> Suitable Footwear	<input type="checkbox"/> Breathing Apparatus
<input type="checkbox"/> Safety Helmet	Other: _____		

ISOLATION REQUIRED FROM	Needed	Initial	Time	ISOLATION REQUIRED FROM	Needed	Initial	Time
Water / Gas / Steam				Mechanical / Electrical Drives			
Fire Extinguishing Systems				Sludge / Deposits / Wastes			
Chemicals / Substances				Grains / Dust / Chips			
Other: _____				Other: _____			
Isolation method: _____ Locks / Tags fixed to isolation points <input type="checkbox"/>							

OTHER CHECKS	Hot Work Permit Required? YES / NO	Intrinsically Safe Equipment Needed? YES / NO
BA Required? YES / NO	Signs/Barricades Up? YES / NO	Fire Fighting/Protection Equipment Needed? YES / NO
Comms Organised? YES / NO	Rescue Plan Complete? YES / NO	Equipment needed for rescue is available? YES / NO

OTHER CONTROLS

GAS TESTING REGIME	<input type="checkbox"/> Before entry	<input type="checkbox"/> Every _____ mins	<input type="checkbox"/> As required	<input type="checkbox"/> Continuously
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ATMOSPHERE GAS TESTING EQUIPMENT			
ID No.:	Calibrated <input type="checkbox"/>	Battery Charged <input type="checkbox"/>	Inspected <input type="checkbox"/>
ID No.:	Calibrated <input type="checkbox"/>	Battery Charged <input type="checkbox"/>	Inspected <input type="checkbox"/>

ATMOSPHERE/ GAS TESTS	Entrance/Exit			Other tests (Should include top centre and bottom of space)						
	Before Opening	Slightly Ajar	Fully Open	1	2	3	4	5	6	7
TIME:	:	:	:	:	:	:	:	:	:	:
% of Oxygen										
% of LEL										
Carbon Monoxide - CO ₂										
Hydrogen Sulfide - H ₂ S										
Other:										
Other:										

EXITING SPACE CHECKLIST			
All persons accounted for <input type="checkbox"/>	Tools/Equipment Checked <input type="checkbox"/>	Gas Monitors Checked & Returned <input type="checkbox"/>	Permit complete <input type="checkbox"/>
Signed (Person in Control): _____		Date: _____	Time: _____

WORK AND PEOPLE

HAZARDS AND CONTROLS

GAS/ATMOSPHERE TESTING

EXIT

Practical task 6

Enter and work in a confined space (PC 1.6, 1.7, 1.8, 1.9,

2.5, 2.6, 4.1, 4.2, 4.3, 4.4)

This task must be done under the direct supervision of your trainer

In this task you will safely move people, tools and equipment to the work area. You will check your safety systems, and make sure they work and are adjusted properly. Once you have done this you will pack up, clean the work site and properly store all tools and equipment.

What you need for this task

- Completed Emergency Rescue Plan (if connecting to a fall arrest system).
- Completed SWMS or JSEA.
- Completed confined space entry permit.
- Tools and equipment for work (your trainer will supply these). The actual equipment will vary depending on the type of work you are doing.
- Confined spaces equipment. This may be static lines, lanyards, harnesses, inertia reels, energy absorbers and so on (your trainer will advise what is available).

How to do this task			
Item	✓	Item	✓
1. Sign onto/receive the work permit		10. Safely move people into the work area. You should take on a range of roles in your team. Each person should get practice at performing the duties of the standby person	
2. Get the tools and equipment you will use ready to move to the work area		11. Move the tools, equipment and people to the work area. Make sure you practice safe manual handling practices	
3. Organise your rescue equipment		12. Check your safety systems. For example, you may need to check your tripod, check tension of the harness or check lifeline, etc	
4. Set up any signs / barricades etc, as needed by the SWMS / JSEA or entry permit		13. Monitor the space for changes that could cause the entry permit to be revoked	
5. Prepare the space for entry. Set up any heating / cooling / ventilation, etc		14. Ensure time frames for working inside the confined space are followed. Seek extension to permit if/when required.	
6. Display the entry permit at the entrance of the space		15. Pack up the work area making sure to account for all tools and equipment taken to the area. Your trainer will tell you the right location for the tools and equipment you are using	
7. Do final checks on entry permit requirements. If permit requirements are not met you cannot enter the space. Seek a variation or new permit if required.		16. Inspect your safety equipment (harnesses, gas monitoring equipment, etc.) You may need to charge batteries, clean equipment etc	

Score for Practical Tasks

Practical Assessment Tasks		
Practical Task 1	Satisfactory	Not yet satisfactory
Practical Task 2	Satisfactory	Not yet satisfactory
Practical Task 3	Satisfactory	Not yet satisfactory
Practical Task 4	Satisfactory	Not yet satisfactory
Practical Task 5	Satisfactory	Not yet satisfactory
Practical Task 6	Satisfactory	Not yet satisfactory
Practical Task 7	Satisfactory	Not yet satisfactory
PASS – All tasks must be completed to a satisfactory level.	Satisfactory	Not yet satisfactory
Student:		
Student ID:		
Student signature:		
Trainer/supervisor name:		
Trainer/supervisor ID:		
Signature:		

