## National Certificate in Building, Construction and Allied Trades Skills (BCATS) Teacher Information & Resources

# Demonstrate knowledge of the gasfitting industry within a BCATS environment

Unit Standard – 25327

Level 2, Credit 2





# Teaching and assessment tips

**Intent** – The intent of the unit standard is that the learner is able to demonstrate basic knowledge of the carpentry industry including:

- major industry sectors
- industry work processes
- industry clients, supply and inter-trade relationships
- the impact of regulatory and trade bodies on the industry and
- industry jobs and their training requirements.

It is intended that a learner who has an interest in a particular industry can achieve credits for their exploration of that industry by completing the relevant unit.

#### **Unit standard Interpretation**

No more than 2 of the Demonstrate Knowledge units that relate to BCATS industries can be incorporated in the qualification.

A worksheet that covers the assessment requirements for this unit standard is included in this document. Also included are model answers for that worksheet.

#### **Assessment**



Assessment of this unit standard consists of:

• Completion of the worksheet



### Worksheet US 25327

Stud	dent Name:
Se	ction 1
1.	Gasfitting work is defined as the installation of what features of a gas supply system? (a)
	(b)
	(c)
	(d)
2.	Name the 2 points on a gas supply system where gasfitting work technically begins.
3.	Other than the installation of gas pipe networks and fittings, what other tasks are gasfitters responsibile for?
	ction2 Work processes rt the words to correctly complete the following
4.	Gas pipework is usually connected to a gas appliance using a fitting.
5.	Gas pipework to be installed above ground may be made of or
6.	Copper pipe is normally eitherhard or
7.	Brazing fittings are used to joint piping made from
8. 9.	Brazing rod used to joint copper pipe or sheet is referred to as
10.	Lead and tin alloy is called by what name?

11. The process of diagnosing and solving a fault in either a gas appliance or installation is called

..... shooting.

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12.	The task of fixing that fault is referred to as
13.	Scheduled preventative maintenance is referred to as
Sec	ction 3 Client base
14.	For a gasfitter, who would be a direct client?
15.	List 4 possible clients a gasfitter could sub-contract to.
	etion 4 Supply relationships ain what is meant by the following terms:  Accredited supply network?
17.	Trade account?
18.	Trade discount?



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19.	What does "five year guarantee" mean?
20.	Why does a gasfitter need product training?
Sec	etion 5 Relationships with other trades
21.	What does a person require in order to legally carry out gasfitting work?
22.	What tasks are plumbers responsible for in relation to gas installations?
23.	What tasks are builders and carpenters responsible for in relation to gas installations?
24.	What task(s) might a roofing contractor be required to carry out in relation to a gas installation?

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### **Section 6 Requirements of industry bodies**

Insert the correct words in order to complete the following sentences:

25.	A trainee gasfitter must sign a training agreement with their employer at called	nd the organisation
26.	Training is not carried out by the Skills Organisation, but by an accredited	d
27.	The Skills Organisation is tasked with	ing providers train
28.	The Plumbers, Gasfitters and Drainlayers Board (PGDB) is tasked with se	
29.	In New Zealand, all gasfitting work must comply with NZS	
<b>Sec</b> 30.	tion 7 Job roles and training requirements  What type of gasfitter is responsible for deciding how gasfitting work shand ensuring that the work undertaken is both correct and compliant with	
31.	Who can legally carry out gasfitting work?	
32. 33.	Who can supervise an apprentice gasfitter?  Does a Licensed gasfitter legally require supervision?	
Asse	essor Sign off:	
Assess	sor name:	RESULT: A = Achieved, N = Not Yet Achieved
Assess	sor signature: Date:	

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## **Model Answers**

Se	ection 1	
1.	Gasfitting work is defined as t	he installation of what features of a gas supply system?
	(a) pípes (b) applíances (c) equípment (d) flues (e) ventilatíon.	
2.	Name the two points on a gas	s supply system where gasfitting work technically begins.
	<ul> <li>at the billing meter</li> </ul>	v outlet
	<ul> <li>at the cylinder's re</li> </ul>	rgulator outlet.
3.	Other than the installation of question responsible for?	gas pipe networks and fittings, what other tasks are gasfitters
	Repairing and servicin	g gas appliances.
	ection2 Work process sert the words to correctly comple	
4.	Gas pipework is usually conne	ected to a gas appliance using a fitting.
	Uníon.	
5.		above ground may be made oforor
	Black; galvanízed; thre	rads.
6.	Copper pipe is normally either	hard or
	Half-hard, soft.	
7.	Brazing fittings are used to joi	nt piping made from
	Соррег.	
В.	Brazing rod used to joint copp	er pipe or sheet is referred to assolder.
	Hard.	

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9.	Black mild steel pipe may be jointed by either threading or
	Fusion welding.
10.	Lead and tin alloy is called by what name?
	Soft solder.
11.	The process of diagnosing and solving a fault in either a gas appliance or installation is called shooting.
	Trouble.
12.	The task of fixing that fault is referred to as
	Repairing.
13.	Scheduled preventative maintenance is referred to as
	Servicing.
Sec	tion 3 Client base
14.	For a gasfitter, who would be a direct client?
	A home or business owner who engages the gasfitter directly and pays them for their work.
15.	List 4 possible clients a gasfitter could sub-contract to.
	Any four of:
	• architect
	• builder
	• appliance retailer

#### **Section 4 Supply relationships**

gas supplier

Explain what is meant by the following terms:

**16.** Accredited supply network?

Any company legally allowed to sell and supply gas.

property management company.

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**17.** Trade account?

An account that a gasfitter holds with a merchant or supplier enabling them to purchase goods without the upfront payment of cash, but rather being billed at the end of the month.

**18.** Trade discount?

The percentage below retail price at which the gasfitter can purchase products from merchants or suppliers.

**19.** What does "five year guarantee" mean?

That the product will be replaced if it fails within five years, provided that it was correctly installed, not subjected to unduly harsh conditions, and properly registered with the manufacturer.

20. Why does a gasfitter need product training?

In order to learn how to correctly operate, install and maintain a particular product.

#### **Section 5 Relationships with other trades**

21. What does a person require in order to legally carry out gasfitting work?

A gasfitting practicing license.

22. What tasks are plumbers responsible for in relation to gas installations?

Installs the cold water supply to, and the hot water supply from, gas water heaters, relief pipes, valves and water controls.

23. What tasks are builders and carpenters responsible for in relation to gas installations?

They build the structures within which the gas pipes and appliances must be installed, such as mountings, access points, penetrations, and permanent ventilation openings and covers.

**24.** What task(s) might a roofing contractor be required to carry out in relation to a gas installation?

Provide flashings for roof penetrations.

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Section 6 Requirements of industry bodies
Insert the correct words in order to complete the following sentences:

25.	A trainee gasfitter must sign a training agreement with their employer and the organisation called
	The Skills Organisation (Skills Org)
26.	Training is not carried out by the Skills Organisation, but by an accredited
	Training provider.
27.	The Skills Organisation is tasked with how training providers train and assess trainees.
	Moderating.
28.	The Plumbers, Gasfitters and Drainlayers Board (PGDB) is tasked with setting and marking
	Registration; practicing; unlawful.
29.	In New Zealand, all gasfitting work must comply with AS/NZS
	5261
Soc	ction 7 Job roles and training requirements
30.	What type of gasfitter is responsible for deciding how gasfitting work should be undertaken and ensuring that the work undertaken is both correct and compliant with regulations?
	A Certifying gasfitter.
31.	Who can legally carry out gasfitting work?
	Licensed gasfitters.
32.	Who can supervise an apprentice gasfitter?
	A Certifying gasfitter.
33.	Does a Licensed gasfitter legally require supervision?
	Yes, they must be supervised by a certifying person who is ultimately responsible for ensuring the work is done competently.

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