# Verifier's recognition kit - subclass 4.2

Version 3.0 – September 2021

MSMSS00011 Trade Measurement Verification (Simple Measuring Instrument) – subclass 4.2

Complete this kit by typing directly into the document

Applicant's name:	
Subclasses requested for assessment:	
Observation assessment method requested (select one)	Video calling (VC) Pre-recorded videos
	Direct observation (applicant choice of site)

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### **Version changes**

Version number	Main changes
V3.0	<ul> <li>Assessment also includes mandatory observation</li> <li>Added pre-completion checklist to establish readiness (inc. LLN)</li> <li>Re-wording of some questions/instructions, including to aid clarity. Some questions removed and new questions added.</li> <li>Test report questions removed.</li> <li>Verification form task changed to require completion using the electronic version of the form.</li> <li>Supervisor/mentor report now called third party report with comments required for each checkpoint.</li> <li>Kit to be completed electronically.</li> </ul>

### Introduction

This kit enables you to demonstrate your competence as a verifier of measuring instruments used for trade against the performance criteria and assessment requirements set out in the nationally recognised units of competency for the skill set:

MSMSS00011 Trade Measurement Verification (Simple Measuring Instrument) – for licence subclass 4.2

- MSMTMVER302 Verify simple measuring instruments
- MSMTMREF301 Use and maintain reference standards

On successful completion of assessment, you will receive a statement of attainment.

Read these instructions carefully in combination with the <u>Recognition kit instructions</u> and <u>Instructions for observation assessments</u> documents. In addition, carefully read the instructions included at the start of each section.

Before you complete and submit your recognition kit, you should:

- · read through the whole kit to understand what is required of you
- spend time in the field with an experienced verifier learning about the topics in the following checklist
- complete the checklist below, to self-assess your skills and knowledge.

Please contact the NMI Administrator if you have difficulties in understanding the requirements for compiling/submitting your kit.

Email: NMladministrator@measurement.gov.au Tel: 02 8467 3789

Not I have adequate skills and knowledge in the following to be able to complete Yes No sure this kit, and perform these tasks in the workplace, without direct assistance: Spoken English communication Mathematics English reading skills Computer skills The instruments I intend to verify The techniques used in testing instruments, including planning and preparation Storing, maintaining and handling reference standards/test equipment Likely impacts of the environment on the function of instruments and/or the standards/test equipment used to verify them Work health and safety considerations relevant to testing instruments My organisation's and NMI requirements for recording and reporting details of verifications and other licensing matters Any adjustments or corrections that may be needed during the verification process Marking instruments for verification (what to mark and where to place the mark) Communicating to the owner/user of the instrument and requesting any assistance

If you have checked 'no' or 'unsure' to any of the items in the table above, and are unsure what you need to do to be in a position to answer 'yes', please speak to your supervisor.

Check the LLN section of the <u>Participant's handbook</u> if you need to develop your mathematics or English skills (speaking or reading) before you attempt this assessment.

**In addition,** you should have personally tested instruments, ideally under supervision, using the relevant national instrument test procedures to develop your skills - either in the workplace or in a simulated workplace environment.

### **Assessment instructions**

#### Completion of the kit

You should complete this kit by typing directly into the document or clicking on checkboxes, where appropriate. If you have any problems with the functionality of the fillable kit, please email the kit to the NMI Administrator, detailing the issues that you are having, specifying which page/question etc.

Submit the whole document along with any additional scanned reports, documents and videos.

### DO NOT, print it out and scan it.

The kit comprises a number of components for you to complete/submit, relevant to the test method/s you intend to use, including the following:

- Your work history
- Written assessments Complete only the parts relevant to the test method/s you intend to use.
- A specific question that asks you to complete a <u>verification forms</u> (Form 6) using the information provided.
- Third party report/s a report/s from the verifier/s who worked with you during your training, or a work colleague (where you have no access to a verifier).

In addition, you will be asked to demonstrate your skills by completing one or more simulated verifications, observed by your assessor or an NMI-appointed skills observer.

### MAKE SURE YOU COMPLETE ALL PARTS OF THE RECOGNITION KIT

### Skills assessment requirements

### In your workplace

This assessment requires that you **demonstrate your practical skills**, by completing **simulated** initial verifications on instruments, in a real or simulated environment. During training within your organisation, you should have practised these skills, ideally under supervision of an experienced verifier/s, including completing the appropriate test reports that you will submit as evidence (workplace documents).

The experienced verifier/s that observe you should complete a third party report and sign the test reports you will submit.

Wherever possible, include examples from instruments that did not meet the requirements for verification, to show your understanding of unacceptable instrument performance.

### For beverage dispensers (subclass 4.2)

You must provide copies of test reports relating to instruments you have tested (ideally) under supervision. You should have personally completed all the processes required as if you were completing **initial** verification of the instruments, without assistance. You will need to provide **three (3)** reports in total, including the report you complete during your skills observation/video. (The third report will usually be submitted immediately following observation).

If you wish to be assessed for more than one **test method**, you should have tested an instrument using each test method, and submit a report from each of those tests.

See the Workplace test reports section for more information.

#### **NMI** observation

Your assessor will need to confirm you have the necessary practical and communication skills required when verifying measuring instruments. This includes demonstrating knowledge of, and implementing, safe work practices. Depending on the circumstances, this will be completed by one of the following methods:

- Video calling The assessor will use video calling to complete a direct observation of you, either at your work place or another suitable location (trader's site).
- Pre-recorded videos You will provide a series of videos, showing you completing each of the stages required for verification of an instrument, in a real or simulated situation.
- In-person observation (your choice and arrangement of site) The assessor, or an NMI-appointed skills observer, will observe you completing all the processes required for verification of an instrument either at your work place or another suitable location (trader's site).

### Be sure to mark your preferred observation method option on the <u>front</u> of this kit and on the <u>Recognition kit checklist</u>.

- If you choose to complete the observation using video calling, your assessor will contact you to schedule a suitable time and date.
- If you have chosen to provide videos, and you are unable to email the video files, the NMI
   Administrator will provide a link where you can upload your videos, after we have received your kit.
- For direct observation at your workplace, or other suitable location of your choice, you will liaise with the assessor or skills observer.

### IMPORTANT - Please See separate <u>Instructions for observation assessment</u>.

#### Third party reports

You should supply a report from a person (or persons) who has worked directly with you, and who can comment on your workplace performance over time. Ideally, this person is a verifier who has worked directly with you during your training, AND who holds a statement of attainment relevant to this skillset and subclass. If you don't have access to a verifier during your training, but have a workplace supervisor or colleague who works with you, ask them to provide a report. **Note, you may be asked to complete additional observations if you cannot provide a third party report from a verifier.** 

Ask the person/s completing the report/s to read the instructions for completing their report **before** you finalise this kit. **If more than one person can provide evidence to support your assessment, have each of them complete a separate copy of the report, for submission:** 

- An existing verifier should complete the <u>Third party report (experienced verifier)</u>.
- Any other work colleague, who isn't a verifier, should complete the Third party report (non-verifier).

If you have access to an existing verifier, ensure they observe you testing the instruments for which you will provide <u>workplace test reports</u> for this kit. **They should sign each report you provide**, to confirm that you have correctly followed the relevant, current, national instrument test procedures for **initial verification**.

If you don't have access to anyone in your workplace who can provide either of the above third party report, please contact the NMI Administrator.

### IMPORTANT - Submission of the kit and enrolment

Once you have completed all relevant components, complete the separate <u>Recognition kit checklist</u> and the checklist on the <u>Applicant's details form</u>, to check that you are submitting **all** the components required for this assessment.

Save this document on your computer, and name the file by adding your name to the file name. For example, if your name is Joe Smith, the file name for your completed kit will be:

RK 4.2 F V3.0 Joe Smith.

Scan each of the **additional** documents you have completed, and save them by the name of document and the kit e.g. scan and save the test reports you are submitting as:

### RK 4.2 F V3.0 Test report 1 Joe Smith

If submitting videos, name them RK 4.2 F V3.0 Video 4.2 (1) Joe Smith

Include a number for each video so your assessor can watch them in order, e.g. Video 4.2 (1); Video 4.2 (2) etc. or name them by what is covered by each video e.g. Video 4.2 (visual inspection)

Email the kit and the other documents to <a href="mailto:nmiadministrator@measurement.gov.au">nmiadministrator@measurement.gov.au</a> and keep your original kit and documents. Your assessor will ask questions about your kit when they speak to you, so you need to have it available.

The NMI Administrator will advise you how to submit the videos if you are unable to email them.

Once we have received all parts of your kit, the NMI Administrator will contact you regarding enrolment.

#### Assessment

Your assessor uses a number of forms to record the results of each part of your assessment. The forms are included at the end of this kit for your information.

Following enrolment, you will be assigned an assessor and an NMI-appointed skills observer (SO) for your observation (where applicable).

If a SO completes your observation, they will contact you to make arrangements. Following observation, they will provide their report to your assessor.

Once your assessor receives your submitted material, and any observation report, they will:

- assess the submitted material
- determine if any further evidence is required
- discuss your workplace skills with the person/s providing any third party report (if necessary)
- contact you to confirm arrangements for any skills observation (if they are completing the observation)
- contact you to arrange a mutually convenient time to call you, if required, to:
  - o confirm your understanding
  - o discuss the reports/documents/videos you submitted
  - o ask any other questions to confirm your competence.
- record your results and provide feedback on the assessment recording form
- return the kit to the NMI Administrator for processing and confirmation of the result of your assessment, by email, and posting out your statement of attainment, when successful.

Applical	il S uctalis				
Name:	First	Middle	Family		
Email addr	ess:				
Telephone	: Work		Mobile		
Name of a	ny third party provid	ing a report:			
Third party	r's telephone numbe	er:			
Third party	r's email address:				
Company	name:				
		re being assessed for – r ple Measuring Instrumer	relating to skill set MSMSS00011 Trade nt):		
4.2	Beverage dispensers	(volumetric method)			
4.2	Beverage dispensers	(gravimetric method)			
Checklist t Check <u>all</u> t		ncluded all the required	components of this kit.		
Арр	olicant's work history	Т	hird party report/s		
Wri	tten assessment (all su		/ritten assessment (4.2 Beverage ispensers – all test methods)		
	tten assessment (4.2 pensers – volumetri		/ritten assessment (4.2 Beverage spensers – gravimetric method)		
Cor	npleted verification fo	rm for 4.2 Beverage dispe	nsers		
	from tests you have ing assessed for):	e completed in the workp	place (check all relevant to the test methods		
	Beverage dispensers thod)	(volumetric	4.2 Beverage dispensers (gravimetric method)		
	Applicant declaration: I verify that I personally completed all the work and activities related to, and submitted as part of this kit, without assistance.				
(Complete	the declaration once	e you are ready to submi	t the kit).		
Name:			Date kit submitted:		

### Complete your work history on the next page

RK 4.2 F V3.0 Assessor checked Page | 5

## **Details of current employment** Organisation: Postal address: Date employment started: Date training related to these subclasses started: Title of your current position: **Details of previous relevant employment** Organisation: Postal address: Period of employment: From: To: Title of your previous position: Relevant work experience Specify the length of time you have been testing beverage dispensers and the approximate number of instruments you have tested (including under supervision and in simulated workplace situations) Detail any relevant training courses you have attended (name and date) and attach copies of any relevant trade qualifications:

Applicant's work history and training

### Assessment recording form (assessor)

Applicant name:		
Assessor name:	Date kit received	:
Applicant's ID checked at interview:		
Summary of evidence used to assess the appli	cant:	
Written assessments	Completed verifica	ation form task
Third party report/s	Conversation with	applicant
Review of test reports	Skills observation/	report/review of videos
Other – specify:		
To obtain the skill set MSMSS00011 – Trade me instrument), applicants must demonstrate com		
This applicant was assessed as:	Competent	Not yet competent
MSMTMREF301 Use and maintain reference standards		
MSMTMVER302 Verify simple measuring instruments		
Check whether they are satisfactory or not yet	satisfactory for each te	est method requested:
	Satisfactory	Not yet satisfactory
4.2 - Beverage dispensers (volumetric method)		
4.2 – Beverage dispensers (gravimetric method)		
Assessor's name:	Date:	
RTO manager's signature:	Date:	

### Assessor's feedback form

Assessor: Please include feedback to the applicant here and add your name and date to the bottom of
the form. Particularly where you have assessed the applicant as NYC, ensure you identify which
assessment requirements the applicant has not yet demonstrated (e.g. Performance criteria (PC) 2.4 of
the unit of competency (UoC) MSMTMREF301 - Use and maintain reference standards was not met as
you were unable to correctly validate the reference standard suitability).

Assessor's name: Date:

### Instructions for all written assessments

You must complete the 'all subclasses questions'

In addition, complete all questions relating to the specific test methods you wish to verify.

**For multiple choice questions**, check the correct answer, or answers. If you make a mistake, you can simply uncheck the box/es and check the new correct box/es.

**For free text questions**, type in the text box provided below each question. Include any calculations you use. The text box shouldn't limit how much you can write, but the size of the box indicates the expected maximum length of your answer.

If you have any problems writing your calculations in the text box, write them on a separate document, referencing the question they relate to (e.g. All subclasses Q19), then scan or photograph them and email along with your kit.

Name the added document RK 4.2 F V3.0 Calculations Joe Smith

### Written assessment 'all subclasses'

If you are completing other kits at the same time as this kit, complete the all subclasses questions in the OTHER kit, but note that for question 3, you only need to include 2 hazards for instruments of subclass 4.2.

1.	In your own words, describe:		
	a) what a hazard is.		
		Correct	Incorrect
	b) what a risk is.		

2. List **four** basic duties you have under the safety legislation in your state or territory, as an employee or worker.

Satisfactory Incomplete Incorrect

Correct

Incorrect

3. List the main workplace health and safety hazards that you face when verifying measuring instruments or measures. Your answer should relate to the environments and method/s of verification for instruments/measures for which you are currently being assessed. Write your answer below. Include at least 5 common hazards (2 for subclass 4.2. Add another 5 per additional kit you are completing at the same time). In addition, identify the main controls you apply to ensure your safety, and list any specific workplace procedure that applies to the hazard.

Hazards	Controls	Workplace procedures
1.		
2.		
3.		
4.		
5.		
1.		
2.		
3.		
4.		
5.		
1.		
2.		
3.		
4.		
5.		

Satisfactory Incomplete Incorrect

4. Do you know what a SDS and a SWMS are? a) Explain what a SDS is: Correct Incorrect b) Give an example of when you would use a SDS: Correct Incorrect c) Explain what a SWMS is: Correct Incorrect d) Give an example of when you would use a SWMS: Correct Incorrect 5. As part of the licence conditions, a servicing licensee is required to maintain a quality management system. From the following list, select each item that is included in your quality management system manual. Check all that apply. The requirement for all measuring instruments/measures to be of an approved pattern and comply a) with their certificate of approval. b) Details of mandatory reverification periods for instruments/measures used for trade. c) References to the national instrument test procedures relevant to the servicing licence. d) Procedures relating to instruments/measures that cannot be verified. Satisfactory Incomplete Incorrect 6. Which document, maintained by the servicing licensee, details the required format of the mark that verifiers, working under that servicing licence, must apply to show an instrument/measure has been verified? Choose the single correct answer. a) The National Trade Measurement Regulations 2009. b) The licensee's quality manual. The National Instrument Test Procedures. c) d) The licensee's servicing licence

Correct Incorrect

- 7. You have just changed your home address. What are you required to do? Choose the single correct answer.
  - a) Nothing.
  - b) Notify my employer who will notify NMI within 2 months.
  - c) Notify my employer who will notify NMI within 14 days.
  - d) Call my local trade measurement inspector and leave a message.

Correct Incorrect

8.		verify a measuring instrument/measure, he National Measurement Institute on the app			
	a)	7 days			
	b)	14 days			
	c)	21 days			
	d)	1 month			
^	0-14			Correct	Incorrect
9.		the actions you would take when you test termine that you cannot verify it. Check a		sure in use for tra	ade and
	a)	Replace the verification mark with one income for trade.	<del>-</del>	ıre can no longer	be used
	b)	Remove any existing verification mark (w	here feasible).		
	c)	Notify the owner within 14 days.			
	d)	Notify the owner immediately.			
	e)	Notify NMI within 14 days			
	f)	Notify NMI immediately.	Satisfactory	Incomplete	Incorrect
10.		could be the consequence if you failed to possession ve been unable to verify a measuring inst	orovide the trader with a notice	e of non-verificati	ion when
	a)	No consequence provided I told the tr	ader they couldn't use the ins	trument/measure	for trade.
	b)	Customers could get incorrect measu	re.		
	c)	Nothing, it's the trader's responsibility	to check the instrument/meas	sure is correctly n	narked.
	d)	I could be fined.			
	e)	I could be restricted from verifying inst	truments/measures.		
			Satisfactory	Incomplete	Incorrect
11.	any oth	were unsure of the correct way to apply a ner requirement relating to the verification at least <b>three</b> points.			
			Satisfactory	Incomplete	Incorrect
12.		ften must a measuring instrument/measurng) be re-verified? Choose the single corr	e used for trade (excluding w	eighbridges used	for public
	a)	Every 3 years.			
	b)	Every 5 years.			
	c)	Whenever it has been adjusted/repair	ed or every 2 years.		

Correct

Incorrect

Whenever an adjustment or repair affects its metrological performance.

d)

13. Can you verify a measuring instrument/measure where its certificate of approval states 'cancelle respect of new instruments as from 1 January 2018'? Choose the single correct answer.			elled in		
	a)	No, ı	never.		
	b)	Yes,	always.		
	c)	Yes,	if the instrument/measure was manufactured before 1 January	/ 2018.	
	d)	Yes,	provided the instrument is new.		
				Correct	Incorrect
		ng licens	s would you apply to an instrument/measure you verified on 13 see code is DBA and you have the verifier number VR 01278?	August 2020 if y	our
	a)	DBA 12	78 80		
	b)	1278 B	20		
	c)	DBA 12	78 H0		
	d)	DBA 12	78 H20		
	e)	1278 DI	BA H20		
	,			Correct	Incorrect
15.	The fo	ollowing	questions relate to the connection of auxiliary devices to mea	suring equipmer	nt.
	a)		document specifies the requirements for the installation of auxes and POS systems installed prior to 1 August 2012? Choose		
		i.	S1/0/A		
		ii.	S1/0B		
		iii.	Supplementary certificate of approval for the device/system		
		iv.	Measuring instrument approval		
				Correct	Incorrect
	b)	device	document specifies the requirements for the installation of auxies installed after 1 August 2012, <b>excluding</b> POS or Control systanswer.		
		i.	S1/0/A		
		ii.	S1/0B		
		iii.	Supplementary certificate of approval for the device/system		
		iv.	Measuring instrument approval		
				Correct	Incorrect
	c)		document specifies the requirements for the installation of POutst 2012? Choose the single correct answer.	S systems instal	led after
		i.	S1/0/A		
		ii.	S1/0B		
		iii.	Supplementary certificate of approval for the device/system		
		iv.	Measuring instrument approval		
				Correct	Incorrect

	d)	systen	verifying an instrument which has an aux n) connected to it, what are the requireme t answer.			
		i.	Apply a mark to the instrument only			
		ii.	Apply a mark to the auxiliary device only			
		iii.	Apply a mark to both the auxiliary device	and the instrument		
					Correct	Incorrect
16.			ole of examples of how a trader's use of a Give <b>two examples</b> per instrument type			
				Satisfactory	Incomplete	Incorrect
17.	In your points	-	sation, how do you maintain records relati	ng to verification? Yo	u should include	at least 2
				Satisfactory	Incomplete	Incorrect
18.			fy instruments/measures, what are the presompleting a verification? Include <b>at least</b>			iness and
				Satisfactory	Incomplete	Incorrect
19.	Who is trade in		sible for determining whether a particular lia?	model of instrument of	can legally be us Correct	sed for
20	Where	could v	ou find the legal units of measurement fo	r Australia? Choose <b>a</b>	nv that apply	
_0.		,			<b>,</b>	
	a)	On t	ne NMI internet pages.			
	b)	In th	e National Measurement Act 1960			
	c)	In th	e National Measurement Regulations1999	9.		
	d)	In th	e licensee's quality manual			
					Correct	Incorrect
21.	instrum	nent/me	uments/measures may be given in a num asure you are to verify was first approved t MPE to use during testing?			uld you

Correct

Incorrect

### The questions listed below apply specifically to the knowledge requirements for the unit of competency MSMTMREF301 - Use and maintain reference standards

22. List the **reference standards/test equipment** you use when verifying measuring instruments or measures. (Include capacity ranges, scale intervals and class/es, where appropriate) The answer you give should relate to **all** instrument subclasses for which you are being assessed. Write your answer below.

Satisfactory Incomplete Incorrect

Incomplete

Incorrect

23. How do you protect the integrity of the **reference standards and test equipment** you described in the previous question? Your answer should relate to storage, transportation and handling of reference standards and equipment. Write your answer below. Include **at least four** points.

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Satisfactory

24. This question relates to the reference standards/test equipment you use, not the instrument/measure being tested.

What environmental factors could influence the integrity of the **reference standards and test equipment** that you use when verifying instruments/measures? The answer you give should relate to any instrument subclasses for which you are being assessed. Check **all** that apply.

a	) T	en	npe	erat	ure	е

- b) Humidity
- c) Electrical interference
- d) Wind/air movement
- e) Rain/water
- f) Gravity
- g) Dust/dirt
- h) Instrument level
- i) Pressure
- j) Vibration
- k) Other (detail):

Satisfactory Incomplete Incorrect

25. How do you control these factors when undertaking a verification? The answer you give should relate to the standards/equipment for all subclasses for which you are being assessed. Write your answer below. You should include **at least one** control per item selected above.

Satisfactory Incomplete Incorrect

- 26. You have damaged a reference standard/test equipment used to verify measuring instruments/measures. What should you do with it? Choose the single correct answer.
  - a) Fix the damage
  - b) Quarantine it, until it has been repaired, tested and approved for use by the appropriate authority.
  - c) Use it until it can be repaired.
  - d) Quarantine it and then use it once repaired, if it is repairable.

Correct Incorrect

27.	you to a po each of the subclass/e	ng reference standards/test equipment, what signs, ossible problem/fault/damage with those standards or types of standards or equipment you use when very our are being assessed for. Include at least two est equipment you use.	s/test equipment? verifying instrume	Provide answents/measures of	ers for the
			Satisfactory	Incomplete	Incorrect
28.	standard/te	verified and marked a measuring instrument/meas est equipment used for the verification is damaged fied instrument/measure? Write your answer bel	d or faulty. What s	should you do w	
			Satisfactory	Incomplete	Incorrect
29.	the referer when your	s your quality management system require your or nce standards/test equipment you use, i.e. when you standards/test equipment are re-verified, when you n/excess to requirements? Check <b>all</b> that apply.	ou acquire new s	tandards/test eq	uipment,
	a)	Ensure that new standards/test equipment have	the appropriate c	ertification.	
	b)	Allocate a junior member of staff to clean the new	v standards/test	equipment.	
	c)	Update the list of reference standards/test equipr	ment.		
	d)	Supply a copy of the updated list of reference sta	andards/test equip	oment to NMI wi	thin
	e)	30 days of the change. Supply a copy of the updated list of reference sta 14 days.	andards/test equip	oment to NMI wi	thin
			Satisfactory	Incomplete	Incorrect
30.	What is the below.	e principal purpose of a certificate of verification (e	•	·	our answer
			Satisfactory	Incomplete	Incorrect

31.	What procedures does your business need in place for maintenant standards/test equipment? Refer to your quality manual. Write you points.			
	Sat	tisfactory	Incomplete	Incorrect
32.	Can you identify any limitations of the reference standards/test equipment to the verification or the environment in which they are use reference standards/test equipment you may use for the subclasse for, describing the limitations and how significant they might be.	d? Address th	nis question to a	II
33.	Sat What are organisations who are authorised to verify reference star	•	•	Incorrect
			Correct	Incorrect

### Written assessment for subclass 4.2 (all test methods)

1. Complete the MPE values for each quantity in the table below for beverage dispensers used to measure alcoholic liquor:

Approval number	Quantity delivered	MPE
4/5/16B	15 mL	
5/6S/15	15 mL	
4/5/20	30 mL	
5/6S/12 Variant 2	60 mL	
4/9/4	1 – 20 L	

Satisfactory Incomplete Incorrect

- 2. What liquids can be used during verification of beverage measures? Choose the single correct answer.
  - a) Any liquid can be used
  - b) Only those liquids given in the instrument's approval
  - c) Water
  - d) Pure alcohol

Correct Incorrect

- 3. Which of the following beverage dispensers require a low-level cut-out test? Check all that apply.
  - a) 4/5/12A
  - b) 4/5/12C
  - c) 4/5/15
  - d) 4/5/16
  - e) 5/6S/15

Satisfactory Incomplete Incorrect

4. How would you complete a low-level cut out test for a remote storage alcoholic beverage dispensing system?

Satisfactory Incomplete Incorrect

5. Can you verify a remote storage alcoholic beverage dispensing system, NMI 5/6S/13, when the air pressure indicated by the system is 250 kPa, it is delivering accurate measurement of product and has passed all tests? Explain your answer

Satisfactory Incomplete Incorrect

- 6. You have just been employed by a licensee who holds a licence for instruments of subclasses 4.2 and 4.3. You have obtained a statement of attainment for instrument subclasses 4.2, but have yet to gain a statement of attainment for subclass 4.3. You have assisted your employer in verifying alcoholic beverage measures on many occasions. Your employer asks you to verify a batch of beer glasses as a rush job for a valuable customer, while he is overseas. What should you do? Choose the single correct answer.
  - Verify the measures and release them to the customer

     – they don't need a verifier number to be marked.
  - b) Test the measures but don't release them to the customer until your employer has completed the verification form.
  - c) Verify the measures and release them to the customer, but tell the customer your boss will double check them when he returns.
  - d) Tell your employer that you are not competent to verify the measures.

Correct Incorrect

7. You are completing annual testing of a number of beverage dispensers, as part of a service agreement with a customer and notice that all the dispensers appear to have errors to the advantage of the customer. What might be the cause of this? Write your answer in the text box below.

Satisfactory Incomplete Incorrect

8.	beverage (	nual testing of instruments o dispensers are being used to ur answer and what you mig	o measure Bourbon and			
9.	Which of the	ne following would trigger th	e need to re-verify a bev	Satisfactory verage dispenso	Incomplete er? Check all tha	Incorrect t apply.
	a) b) c)	Replacement of a worn da Calibration adjustment of i Replacement of a measur	instrument	unted liquor dis	penser	
	d)	All of the above		Satisfactory	Incomplete	Incorrect
10.	Name 5 of function.	the principal metrological co	omponents of a beverag	e dispenser. –	Briefly describe t	:heir
		Component		Fun	ction	
				Satisfactory	Incomplete	Incorrect
11.	Define der increases	nsity and explain in your owr	n words what happens to	the density of	a liquid as the te	mperature

Satisfactory Incomplete Incorrect RK 4.2 F V3.0 Page | 21

12.		rironmental factors might affect the pert and describe controls to prevent them af	<u> </u>	nser? Include <b>a</b> t	least two
			Satisfactory	Incomplete	Incorrect
13.	Which of	the following are legal units of volume	in Australia? Check <b>all</b> that ap	oply.	
	a)	Gallons			
	b)	Litres			
	c)	Cubic centimetre			
	d)	Kilogram			
	e)	Fluid ounce			
			Satisfactory	Incomplete	Incorrect

### Written assessment – Questions specific to the volumetric test method

Со	mplete	only if yo	u wish to be asses	ssed for this t	est method	d		
1.			red accuracy for rel dispensers?	ference volum	e measures	used to test liq	uor dispensers	in relation to
	a)	One thir	d of the MPE of the	dispenser				
	b)	±0.5 mL						
	c)	of the M	ed uncertainties and PE of the dispense	r		measure shoul	d be no more th	an one third
	d)	One thir	d of the MPE of the	control instrui	ment			
							Correct	Incorrect
2.			num number of deli verages by the volu	•				
	a)	1						
	b)	2						
	c)	3						
	ď)	5						
	,						Correct	Incorrect
3.			gulation 13 certificate and answer the fo				tional Measuren	nent
	a)	What is t answer.	ne uncertainty of the	e 30 mL meas	ure at the 30	0 mL mark? Ch	oose the single	correct
		i.	30 mL					
		ii.	30.009 mL					
		iii.	14.91 mL					
		iv.	± 0.010 mL					
							Correct	Incorrect
	b)	What co	nditions applied dur	ing the verifica	ation of the r	eference meas	ures?	
	c)	Should to	ne reference standa wer.	ards be used w	vet or dry wh	Satisfactory nen testing beve	Incomplete erage dispenser	Incorrect s? Explain
	d)	Are thes	e standards actual v	value or nomir	nal value ref	Satisfactory erence standard	Incomplete ds?	Incorrect

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Satisfactory

Incomplete

Incorrect



### National Measurement

Certificate of Verification of a Reference Standard of Measurement in accordance with Regulation 13 of the National Measurement Regulations 1999 (Cth) in accordance with the National Measurement Act 1960 (Cth)

#### Certificate Number RN211268

Description of standard of measurement: 30 mL borosilicate glass liquor measure and

5 mL borosilicate glass pipette, 2 pieces

Permanent distinguishing marks:

30mL - G2866A, 5mL - G2866C

Date of verification:

28 July 2021

Period of certificate:

From date of verification until 28 July 2031

Value(s) of standard of measurement:

As stated in Report RN211268 of the National

Measurement Institute

Accuracy of verification:

Uncertainty of value(s) as stated in Report

RN211268 of the National Measurement Institute

Date: 24 August 2021

Values and uncertainties of relevant influence factors:

As stated in Report RN211268 of the National

Measurement Institute

Name of Signatory: Mr Greg Buckley

Being a person with powers delegated by the Chief Metrologist acting under section 18D of the National Measurement Act 1960 (Cth) in respect of regulation 13 of the National Measurement Regulations 1999 (Cth), I hereby certify that the above standard is verified as a reference standard of measurement in accordance with the regulations.

Note: Report RN211268 of the National Measurement Institute forms part of this Certificate.



### National Measurement Institute

#### MEASUREMENT REPORT ON

30 mL borosilicate glass liquor measure and a 5 mL borosilicate glass pipette,

Serial number: 30mL - G2866A & 5mL - G2866C



Accredited for compliance with ISO/IEC 17025 - Calibration Accreditation Number 1.

The National Measurement Institute is responsible for Australia's units and standards of measurement. The measurement results presented in this report are traceable to Australia's primary standards.

Measurement Standards Unit, Brisbane:

33 Kingtel Place Geebung QLD 4034

Australia

Telephone: +61 2 9449 0139

Facsimile: +61 7 36136198

Headquarters: GPO Box 2013 Canberra ACT 2601

Australia

Telephone: +61 2 8467 3600

For further information contact: Rolf Grubwinkler Telephone: +61 7 3613 6105

Ref: RN211268

File: CB/11/0821

Checked:

Date: 29 July 2021

This report may not be published except in full unless permission for the publication of an approved extract has been obtained in writing from the Chief Metrologist, National Measurement Institute.

For:

National Measurement Institute,

Trade Measurement Services, Brisbane

33 Kingtel Place

GEEBUNG QLD 4034

Australia

Description:

30 mL borosilicate glass liquor measure and a

5 mL borosilicate glass pipette, 2 pieces

Maker:

Labglass brand borosilicate glass liquor measure and a

Blau brand borosilicate glass pipette.

Serial Number:

30mL - G2866A & 5mL - G2866C

Previous Examination:

RN111275 dated 4 August 2011

Date(s) of Test:

12 to 28 July 2021

### Results of measurement:

Table 1

Description:

30 mL borosilicate glass liquor measure

Identifying Marks(s):

G2866A

Scale Interval:

1.0 mL

Nominal Volume	Measured Volume ( mL )	Uncertainty ( ± mL )	Coverage factor (k)
29 mL	28.976	0.010	2.1
30 mL	30.009	0.010	2.0
31 mL	31.011	0.010	2.0
32 mL	32.017	0.010	2.0

Ref: RN211268

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Checked: \*

Date: 29 July 2021

Table 2

Description:

5 mL borosilicate glass pipette

Identifying Marks(s):

G2866C

Scale Interval:

0.05 mL

Nominal Volume	Measured Volume ( mL )	Uncertainty ( ± mL )	Coverage factor (k)
1 mL	1.002	0.010	2.1
2 mL	2.005	0.010	2.1
3 mL	3.020	0.010	2.0
4 mL	4.026	0.010	2.0
5 mL	4.989	0.010	2.0

#### Notes

- 1. The uncertainty stated in this Report has been calculated in accordance with the principles in JCGM 100:2008 Evaluation of measurement data Guide to the expression of uncertainty in measurement, and gives an interval estimated to have a level of confidence of 95%. Unless otherwise stated, a coverage factor (k) of 2.0 has been used. The uncertainty applies at the time of measurement only and takes no account of any drift or other effects that may apply afterwards. When estimating the uncertainty at any later time, other relevant information should also be considered, including, where possible, the history of the performance of the instrument and the manufacturer's specification.
- The measured volume was calculated for reference temperature of 20 °C.
- A cubic expansion coefficient of 9.9 × 10<sup>-6</sup>/°C was used when referring the results to the reference temperature. The measured volume was determined with the bottom of the meniscus set to the top of the graduation line.
- The liquor measure has been verified to 'CONTAIN'. Prior to use, the measure is required to be completely 'DRY'.
- The pipette has been verified to 'DELIVER'. Prior to use, the pipette is required to be 'WET'. A 3 second waiting and setting time was used except in the case of a 5 mL delivery when a 15 second waiting time is used.
- 6. The measure was verified using the National Test Method 14.2.

Ref: RN211268 File: CB/11/0821 Checked: 

✓ Date: 29 July 2021

7. The measure has been verified against the following reference standard(s):

Delta Ohm digital thermometer S/N: 09000401. Certificate No. RN210101, Expiry Date: 01/03/2023

20 kg to 1 mg state secondary weights, Set G, Certificate No: RN202123, Expiry Date: 04/11/2021

 The verification was conducted at Measurement Standards Unit, Brisbane, 33 Kingtel Place, Geebung QLD 4034.

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Mr Greg Buckley for Dr R B Warrington Chief Metrologist

G. J. Burhley

Mr Ridley Nugara NMI approved signatory

Ref: RN211268 File: CB/11/0821 Checked: Date: 29 July 2021

### Written assessment - Questions specific to the gravimetric test method

### Complete only if you wish to be assessed for this test method

- 1. What is the required accuracy for reference standard weights used to test control instruments used in testing beverage dispensers? Choose the single correct answer.
  - a) Combined uncertainties and variations of the weights used should be no greater than the MPE of the dispenser
  - b) ±0.5 e
  - c) Combined uncertainties and variations of the weights used at any load point should be no greater than one third of the MPE of the control instrument
  - d) ±1.5%

Correct Incorrect

- 2. Consider the Regulation 13 certificate of verification that follows, and *the National Measurement Regulations 1999*, and answer the following questions that relate to it and the weights detailed in it.
  - a) What **maximum permissible** uncertainty applies for the 50 mg reference standard? Choose the single correct answer.
    - i. 0.130 mg
    - ii. 0.27 mg
    - iii. 0.040 mg
    - iv. 0.080 mg

Correct Incorrect

b) Are these standards actual value or nominal value standards?

Correct Incorrect

### Further questions follow the certificate



Certificate of Verification of a Reference Standard of Measurement in accordance with Regulation 13 of the National Measurement Regulations 1999 (Cth) in accordance with the National Measurement Act 1960 (Cth)

#### Certificate Number RN181433

Description of standard of measurement: Inspectors' Class 1 standard of mass:

Set of weights, 2 kg to 1 mg, 57 pieces

Permanent distinguishing marks: See attached Schedule

Date of verification: 31 July 2018

Period of certificate: From date of verification until 31 July 2020

Value(s) of standard of measurement and accuracy of verification:

Deemed equal to the denomination, in accordance with Regulations 30 and 31; see attached Schedule

Signature: J. J. Buchly

Name: Mr Greg Buckley

Date: 3 August 2018

Being a person with powers delegated by the Chief Metrologist acting under section 18D of the National Measurement Act 1960 (Cib) in respect of regulation 13 of the National Measurement Regulations 1999 (Cib), 1 hereby certify that the above standard is verified as a reference standard of measurement in accordance with the regulations.

This document may not be published except in full unless permission for the publication of an approved extract has been obtained in writing from the Chief Metrologist, National Measurement Institute

Test Method: NTM14.1

Signature:

Name: Mr Rolf Grubwinkler

NMI approved signatory

Date: 3 Quays 2018

NATA

Accredited for compliance with ISO/IEC 17025 -Callibration.

Accreditation Number 1.

The measurement results presented in this document are traceable to Australian standards.

Trade Measurement Laboratory, Brisbane

33 Kingtel Place Geebung QLD 4034

Australia

Telephone: +61 7 3613 6102

Facsimile: +61 7 3613 6198

Headquarters: GPO Box 2013 Canberra ACT 2601

Australia

Telephone: +61 2 8467 3600

### Schedule to Regulation 13 Certificate Number RN181433

Weights contained in case marked TMQ M-20

Denomination	Material/Construction
2 kg	stainless steel cylindrical weight
2 kg*	stainless steel cylindrical weight
1 kg	stainless steel cylindrical weight
500 g	stainless steel cylindrical weight
200 g	stainless steel cylindrical weight

Weights contained in box marked TMQ M-20

Denomination	Material/Construction
200 g*	stainless steel cylindrical weight
100 g	stainless steel cylindrical weight
50 g	stainless steel cylindrical weight
20 g	stainless steel cylindrical weight
20 g*	stainless steel cylindrical weight
10 g	stainless steel cylindrical weight
5 g	stainless steel cylindrical weight
2 g	stainless steel cylindrical weight
2 g*	stainless steel cylindrical weight
1 g	stainless steel cylindrical weight
500 mg	stainless steel rectangular weight
200 mg	stainless steel rectangular weight
200 mg*	stainless steel rectangular weight
100 mg	stainless steel rectangular weight
50 mg	stainless steel rectangular weight

Checked: RG

Page 2 of 3

### Schedule to Regulation 13 Certificate Number RN181433

Denomination	Material/Construction
20 mg	stainless steel rectangular weight
20 mg*	stainless steel rectangular weight
10 mg	stainless steel rectangular weight
5 mg	aluminium rectangular weight
2 mg	aluminium rectangular weight
2 mg*	aluminium rectangular weight
1 mg	aluminium rectangular weight

Weights contained in pill box marked TMQ M-20

Denomination	Quantity/Material/Construction
500 mg	10 × stainless steel wire weights
200 mg	10 × stainless steel wire weights
100 mg	10 × stainless steel wire weights

Checked: RG Page 3 of 3

- 3. What is the purpose of a control instrument? Check all that apply. To check the reference weights are correct a) b) To determine the weight of liquids measured by the dispenser c) To control the delivery of the beverage dispensed To determine the density of the liquid(s) measured d) Satisfactory Incomplete Incorrect 4. What are the requirements for a control instrument suitable for testing a beverage dispenser capable of dispensing quantities of water from 1-20 whole litres? Check all that apply. Have a maximum MPE of ± 1/3 a) Have a maximum MPE of ± 0.5 e b) Have a scale interval < 0.2% of the nominal mass of the liquid equivalent to the volume c) purported to be delivered Have a scale interval <0.1% of the mass of the sample of liquid use to determine the liquid's d) density Have been tested within 14 days of testing the dispenser(s) e) f) Have a max capacity no less than the heaviest load to be weighed + 10% Have a max capacity equal to the heaviest load to be weighed g) h) Be a non-automatic weighing instrument i) Be of an approved pattern or have an approved load cell and indicator which meets the requirements of 6B/0 j) Have been tested immediately prior to testing of the instruments to be verified
- 5. What value for density should be used when testing a water dispensing machine?

Correct Incorrect

Incorrect

Incomplete

Satisfactory

### Verification form task

Download a 'Certificate of verification or notice of non-verification of a measuring instrument' form (<u>Form 6</u>) from the <u>verifying measuring instruments</u> page of the industry.gov.au website.

#### DO NOT print the form out.

Complete **all required fields** into the **electronic** form using the information given below, including the appropriate instrument performance code.

Once you have completed the form/s, save it/them, named as described in the <u>instructions</u>, and include with your submitted recognition kit.

## For subclass 4.2 (all test methods)

- Verification carried out for instrument user Lasseter's Hotel Casino, 93 Barrett Drive, Alice Springs NT 0870, ABN67676454542323.
- Verification carried out on the 14/09/21 by Bradley Turner Verifier number VR-00987.
- Licensee is Liquotec Pty Ltd SL-0582, Licensee's Mark is LTC. Licensee's ABN is 111122223333
- Instruments verified are 5 ITW Spirit dispensers Model ETN4, capacity 30 mL, approval number NMI 4/5/16A, serial numbers A123456, A122333, A413413, A232323, and A312312.
- Instrument A123456 was verified as a new instrument, the other 4 were verified following maintenance and service to leaking dispensers. In all 4 cases they had been delivering undermeasure.

Satisfactory Incomplete Incorrect

## Workplace test reports

In your workplace you need to develop your skills by testing instruments in accordance with the national instrument test procedures, ideally under the supervision of an experienced, competent verifier. When completing tests, record all your results, the details of the instruments tested and the reference measures/equipment you used, in test reports as used in your workplace. Show any calculations you use during the process.

Wherever possible, include reports for testing different models of instruments, and non-compliant instruments, to demonstrate your knowledge of the requirements.

If you have access to an experienced verifier, ask them to sign each test report to indicate they have observed you test the instrument, in accordance with the relevant NITP, before scanning the reports you submit.

You must provide three (3) test reports in total.

From the pool of reports you have completed in the workplace, submit a minimum of **two (2)** reports, **with accompanying calculations**, representing your best work and demonstrating your understanding of the test procedures and processes required for **initial verification** of the instruments.

Indicate on the report where you would apply the verification mark to each instrument tested.

You will provide a **third test report** from the test you complete when doing your observation/video.

Be sure to include at least one (1) report for each test method being assessed.

Scan the test reports and include them with your completed kit, named as described in the instructions.

## Third party report (experienced verifier)

#### Applicant:

Use this report ONLY if you hold the relevant statement of attainment for this skill set and the test method/s being assessed.

Persons providing a report must have directly supervised the applicant during training and completion of the simulated verifications for which the applicant is providing test reports. If other verifiers have also supervised the applicant, ask each of them to complete an additional report.

You must complete all pages of this report, in particular, you must include written comments to support your responses in the checklist (other than where N/A). It is essential that you detail your observations of how the applicant ensured safety for self and others and how clearly and effectively the applicant communicated with clients/colleagues.

We thank you for your contribution. The applicant's assessor may need to contact you to clarify your responses, or to gain additional information.

Are you a verifier, or inspector of trade measurement?			Yes	No
Verifier/inspector number:				
What subclass/es of instrument are indicated on the statement/s of attainment you hold (e.g. 4.2)?				
Have you verified instruments of these subclasses within the	last 18	month	s? Yes	No
State approximate numbers verified for subclass 4.2:				
Describe briefly your level of experience in testing and verify example, how long have you been working with these instruminstallation, verification).				
During the last 12 months I have personally observed the apprinstruments (including those detailed in the test report/s I have accordance with the National Instrument Test Procedures, paraccuracy, while correctly selecting, using and handling the appropriate the sequipment:	ve signe ying cle	ed), wit	hout assistand ention to detai	ce, and in il and
	Yes	No	If yes, nu instrumen	
4.2 Beverage dispensers				
In addition, the applicant has demonstrated to me correctly, on at least two occasions (in a simulated environment), how a verification label should be marked and where it should be applied to instruments of this subclass.				
Name of third party:			Date:	
Telephone number of third party:				

## Third party report (experienced verifier) Not applicable or Have you observed the applicant: Yes No not able to comment liaise effectively with traders when organising site visits to ensure any assistance/equipment is provided, and to minimise impacts on traders, customers and employees – in accordance with company expectations? What interactions have you observed? explain verification procedures and outcomes clearly and effectively to traders, including respectfully communicating any inadequacies in the way traders use instruments? When/where did you observe this? correctly select, and ensure the suitability of, reference standards/test equipment for the specific task, as required by the relevant national instrument test procedures? How did they do this? maintain the integrity of reference standards/test equipment during their storage, transport and use to ensure they are suitable for use? What did you observe? identify, access and correctly interpret and apply certificates of approval and certificates of verification (Reg 13s)?

## Third party report (experienced verifier)

## Have you observed the applicant: Yes No applicable or not able to comment

 identify, access and correctly interpret and apply relevant test procedures when testing instruments? When did you observe this?

 evaluate the impact of the operating environment on the performance of the instrument/standards/test equipment and make any adjustments to ensure there was no impact? Provide an example of when and how they did this.

- identify local hazards and apply appropriate safety precautions as relevant to the hazard/s, in accordance with local legislation and company procedures? Include in your comments:
  - how they ensure safety for self and others when testing instruments
  - o examples of compliance with local induction requirements
  - o how they establish access to first aid

Include an example of what you observed them do at a site/in the workshop.

Not

## Third party report (experienced verifier)

Have you o	observed the applicant:	Yes	No	applicable or not able to comment
	y apply calculations to determine the verification result, as d by the national instrument test procedures?			
each in	y identify and apply the correct maximum permissible errors for dividual test, as determined by national trade measurement ion and the national instrument test procedures?			
	e test results to determine whether an instrument could be I for trade use, in accordance with the national instrument test ures?			
securel	report and maintain test results and findings clearly, accurately, y and in accordance with company policy? <b>Provide details of ey did this.</b>	,		
devices	y assess for compliance any <u>auxiliary</u> printing and indicating (non-POS) attached to measuring instruments? <b>Detail the</b> and the instrument it was attached to.			
	outine or unexpected problems and seek advice, when required?	?		
	approximate date range during which you have he applicant as detailed above:		To:	
skills and I	ant has demonstrated oral and written language numeracy skills to a standard expected for this Yes organisation.	No	)	
Name of th	ird party: D	ate:		
RK 4.2 F V	3.0 Assessor checked			Page   39

## Third party report (non-verifier)

(This form is only for use where the applicant has not been supervised/trained by an experienced verifier of instruments relating to this kit)

### Applicant:

Use this form if you have worked with the applicant but do NOT hold statements of attainment for this skill set (and unit of competency, if applicable)/subclasses.

You must complete all pages of this report. In particular, you must include written comments to support your responses in the checklist, including details of how the applicant ensured safety for self and others and how clearly and effectively the applicant communicated with clients/colleagues. We thank you for your contribution. The applicant's assessor may need to contact you to clarify your responses, or to gain additional information.

Describe briefly your working relationship to the applicant and the types of work activities you have observed the applicant undertake:

## Have you observed the applicant:

Yes No

Not applicable or not able to comment

liaise effectively with traders when organising site visits to ensure any
assistance/equipment is provided, and to minimise impacts on traders,
customers and employees – in accordance with company
expectations? What interactions have you observed? Provide at
least one example.

 communicate clearly, effectively and respectfully with clients and colleagues? Give at least two examples.

## Not applicable Yes Have you observed the applicant: No or not able to comment identify local hazards and apply appropriate safety precautions as relevant to the hazard/s, in accordance with local legislation and company procedures? Include in your comments: o how they ensure safety for self and others when testing instruments examples of compliance with local induction requirements how they establish access to first aid Include an example of what you observed them do at a site/in the workshop. record, report and maintain test results and findings clearly, accurately and securely and in accordance with company policy? Provide details of how they did this. solve routine or unexpected problems and seek advice, when required? Provide at least one example Detail the approximate date window during which you have To: From: observed the applicant as detailed above: The applicant has demonstrated oral and written language skills and numeracy skills to a standard expected for this role Yes No in our organisation. Name of third party: Date: Telephone number of third party:

Third party report (non-verifier)

## Record of assessor's conversation with third party (if required)

The assessor will speak to any third party/s where they have not provided sufficient confirmation of the performance of the applicant they have observed. This form will be used to record the outcomes of any conversation between the assessor and a third party.

Name/s of third party/ies

Assessor's name: Date:

## Outcome of assessor's review of applicant's test reports

#### Applicant:

As part of your assessment, your assessor will use this form to record the accuracy of your submitted workplace documents.

Assessor: Use the check boxes to record if the documents have been completed/evaluated satisfactorily

Instrument test method Satisfactory Unsatisfactory Not applicable

- 4.2 Beverage dispensers (volumetric method)
- 4.2 Beverage dispensers (gravimetric method)

Please provide comments to support your findings on the submitted documents:

Where videos are provided, use the Skills observation report form for your comments:

Assessor's name: Date:

## Record of conversation with the applicant (to be completed by the assessor)

#### Applicant:

As part of your assessment, you will have a conversation with your assessor who may ask questions to clarify your knowledge in the following areas. Your assessor will use this checklist to record your responses.

**Assessor:** Use the check boxes to record the competency areas where you have asked questions. **You need not ask questions for all areas**, particularly where satisfactory evidence of competence has already been provided. You should include a list of questions asked, with expected answers and responses given, in a separate Word document. Note each correct answer provided or detail any incorrect response.

		Satisfactory	Unsatisfactory	Not asked/not required
•	Preparation, planning and communication with trader			
•	Using and maintaining reference standards and/or test equipment			
•	Certificates of approval			
•	Operating environment			
•	Work, health and safety including use of SDS/SWMS			
•	Maximum permissible errors			
•	Test procedures			
•	Test points			
•	Analysis of test results			
•	Marking instruments and verification documentation			
•	Auxiliary devices			
•	Reporting test results			
•	Inappropriate use of instruments by trader			
•	Servicing licence documentation and procedures including maintaining confidentiality and security of data			
Ар	plicant's ID checked at interview:			
As	sessor's name:		С	Pate:

### Skills observation report

to be completed by the assessor or an NMI-appointed skills observer (SO) If observation not completed by assessor, assessor to check bottom of each page

Name of applicant:				
Skill set/unit of competency being assessed:				
Subclass of instrument being observed:				
Name of observer:		so	Assessor	
Contact number for skills observer:				
Applicant's photo ID viewed by observer	Type of ID viewed:			
Test report attached				
Time at observation site:				

As part of your assessment, you will need to demonstrate completing a simulated initial verification of at least one instrument/measure in a real or simulated workplace environment. This is a requirement of the performance evidence you must demonstrate for this skill set/unit of competency. During the observation, you should complete a test report for each instrument/measure tested and provide a copy of this to the person completing the skills observation. See also the Instructions for observation assessments.

Your assessor, or an NMI-appointed skills observer, will observe you. They will contact you to discuss arrangements for this part of your assessment.

During the observation, the assessor/observer will use this checklist to record your skills in verifying measuring instruments/measures in accordance with legal requirements. They will also be noting how you:

- interact with businesses and their employees before, during and after completing testing
- assess and manage safety during the task
- store, use and handle any reference standards or equipment used (where applicable)
- consider any real or potential environmental impacts on the instrument/measure under test (and the standards and equipment used in testing) and take any necessary steps to account for any impacts
- identify, access and interpret relevant documentation
- record, analyse and report the findings of testing
- communicate the results of testing and any other factors relevant to the usage of instruments/measures
- identify the location for, and simulate the application of, a verification mark

For subclasses 6.1-6.3 and some simple measures/measuring instruments, you may be invited to complete the observation in the trade measurement office in your local city.

For skills observations for other instrument/measure types, or where you do not live in a major city, we will ask you to arrange a site local to you, where a suitable instrument/measure is available. We will contact you with further instructions.

Observer: Use the check boxes to record your conclusions regarding each of the specific items detailed in the following list, where applicable. You must record additional notes and comments that are relevant to, and support, your conclusions, under each item. Essentially, you should describe what you have observed that supports the finding you have checked (what the applicant did).

NOTE: Items 2, 3, 4, 5, 6 and 9 not applicable for s	,	and 18.2.	
(Use one form per instrument observed)			
I have observed the applicant complete a simulate instrument/measure and simulate applying a verification.		st on the follow	ving
(Instrument/measure tested:			
Reference standards/equipment used:			
Date/s observed:			
Location:			
Did the applicant:	Yes	No	Not applicable
liaise and communicate effectively with the trader prior to, during and after testing to ensure verification testing was carried out safely and with minimal disruption to the trader's business?			
select and validate the suitability of reference standards/equipment for the specific verification task?			
determine whether reference standards/equipment were suitable for use for the verification task/not defective?			
Name of assessor/SO:		Date:	

Did the applicant:	Yes	No	Not applicable
maintain the integrity of reference standards/equipment during their transport, storage and use?			
use the reference standards/equipment in the correct manner?			
evaluate and (where required) adjust the impact of the operating environment on the performance of the standards/equipment?			
7. evaluate and (where required) adjust the impact of the operating environment on the performance of the instrument/measure?			
apply appropriate safety precautions and conduct testing safely?			
Name of assessor/SO:		Date:	

Did the applicant:	Yes	No	Not applicable
9. identify, access, interpret and apply certificates of verification for reference standards/equipment?			
10. identify, access, interpret and apply certificates of approval?			
11. identify, access, interpret and apply relevant test procedures?			
12. use specified calculations to determine the performance result?			
13. apply appropriate maximum permissible errors?			
Name of assessor/SO:		Date:	

Did the applicant:	Yes	No	Not applicable
14. analyse test results to determine whether the measure could be marked for trade use?			
15. report results and findings clearly and accurately?			
16. demonstrate how to apply the verification mark?			
17 identify and communicate any inadequacies in			
17. identify and communicate any inadequacies in trader's use of the instrument/measure?			
Name of assessor/SO:		Date:	