

Weights and Measures Portfolio (Version 3)

Instrumentation Requirements and Summary of Changes

This document summarises the changes to the instrumentation requirements in the revised Weights and Measures portfolio (Version 3) and sets out the full instrument list by category. The overall requirement is now 21 pieces of equipment: 19 mandatory instrument tests (the sum of the category minimums) plus a minimum of 2 optional instruments of the candidate's choice.

Table 1 - Summary of changes

Area	Previous portfolio	Revised portfolio (V3)	What it means
Overall requirement	20 pieces of equipment	21 pieces of equipment	1 more test overall
Mandatory instruments	18 mandatory	19 mandatory	1 more mandatory test
Working standard fuel measures (Cat 6)	Optional	Mandatory	Must now be tested; Category 6 minimum rises from 3 to 4
Liquid Fuel Measuring Instrument (Cat 4)	"(basic)"	"(non-STA)"	Same instrument, clearer term
Bulk fuel meter (Cat 4)	"Bulk fuel meter testing equipment"	"Bulk fuel reference meter"	Same item, more precise name; remains optional
Meter for non-fuel liquid (Cat 4)	"Meter in use for trade with non-fuel liquid"	Examples added (e.g. milk, paraffin)	Remains optional
Class III NAWI > 3,000kg (Cat 2)	Mandatory	Mandatory	No change - retained as increasingly encountered
Class II NAWI (Cat 2)	Optional	Optional	No change - rarely available; many authorities lack weights

Table 2 - Full instrument list by category

The minimum number of instruments to be tested is shown for each category; the category minimums total 19 mandatory tests. "Mandatory" instruments must be included where a category specifies them; "Group" indicates an instrument within a choice group (Category 3); "Optional" instruments count towards the minimum of two optional tests.

Category	Instrument	Status	Notes
1. Non-automatic Weighing Instrument used as testing equipment (s.5 WMA 1985) — minimum 1 instrument			
	Mass Comparator	Mandatory	
	Equal Armed Precision Balance	Optional	
2. Non-automatic Weighing Instrument for a Regulated purpose (reg.3 NAWI Regs 2016) — minimum 5 instruments			
	Class III NAWI less than 60kg	Mandatory	One NAWI must be POS-connected
	Class III NAWI (multi-range or multi-interval)	Mandatory	

Category	Instrument	Status	Notes
	Class III NAWI between 60kg and 3,000kg	Mandatory	
	Class III NAWI greater than 3,000kg	Mandatory	Retained as mandatory
	Class III NAWI greater than 20,000kg	Mandatory	
	NAWI not in use for trade (e.g. medical or legal)	Optional	
	Class II NAWI	Optional	Retained as optional
3. Automatic Weighing Instruments used for trade — minimum 2 (one from each group)			
	Automatic Checkweigher	Mandatory	At least one from this group
	Automatic Weigh price labeller (catchweigher)	Group	
	Discontinuous Totaliser	Mandatory	At least one from this group
	Continuous Totaliser	Group	
	Dynamic Rail Weighbridge	Group	
	Automatic Gravimetric Filling Instruments	Optional	
	Dynamic Axle Weighbridge	Optional	
4. Measuring Systems for continuous/dynamic measurement (other than water) for trade — minimum 3 instruments			
	Liquid Fuel Measuring Instrument (non-STA)	Mandatory	Renamed from “(basic)”; one must be POS-connected
	Liquid Fuel Measuring Instrument STA	Mandatory	
	Bulk Fuel Meter System in use for trade	Mandatory	
	Bulk fuel reference meter	Optional	Renamed from “testing equipment”
	Domestic water meter	Optional	
	Meter in use for trade with non-fuel liquid (e.g. milk, paraffin)	Optional	Examples added
5. Material Measures of Length — minimum 2 instruments			
	Rigid material measure of length	Mandatory	One a working standard; one CE/UKCA marked or Crown stamped
	Flexible material measure of length	Mandatory	
6. Volume Measurement — minimum 4 instruments			
	Intoxicating Liquor Spirit Measuring Instrument	Mandatory	
	Capacity Measures	Mandatory	
	Working Standard Capacity Measures	Mandatory	
	Working standard fuel measures	Mandatory	Now mandatory (previously optional)
	Beer meter	Optional	
	Testing equipment pipette	Optional	
7. Measurement of Mass — minimum 2 instruments			
	Working Standard Masses	Mandatory	
	Weight used for trade	Mandatory	

Two reference tests are also required, as set out in the Required Weights and Measures Skills Activities section of the portfolio.