Jersey

WEIGHTS AND MEASURES (WORKING STANDARDS AND TESTING EQUIPMENT) (TESTING AND ADJUSTMENT) (JERSEY) ORDER 1975

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Article

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THE ENVIRONMENT AND PUBLIC SERVICES COMMITTEE, in pursuance of Articles 9(3) and 38(1) of the Weights and Measures (Jersey) Law 1967, orders as follows –

Commencement [see endnotes]

PART 1

GENERAL

1 Interpretation

(1) In this Order the symbols and abbreviations employed to indicate units of weight and measure refer to the units in relation to which those symbols and abbreviations are set out in Schedule 1.

(2) Except as otherwise indicated, the limits of error specified in Schedule 2 are limits in excess or deficiency.

(3) A reference in this Order to an enactment shall be construed as a reference to that enactment as amended by any subsequent enactment.

2 Working standards and testing equipment

Working standards of the following classes provided pursuant to Article 9(1) of the Weights and Measures (Jersey) Law 1967 (hereinafter referred to as the "Law") for use by inspectors namely, linear measures, capacity measures and weights, and testing equipment of the following classes so provided, namely, beamscales, balances, test weights, egg grading machine test poises, displacement plungers and pipettes, shall be tested in accordance with the relevant provisions of this Order –

(a) at intervals of not more than 6 months; and

(b) in the case of any standard or article of equipment which is thought not to be accurate within the relevant limit of error, before use.

PART 2

WORKING STANDARDS

3 Linear measures

(1) Working standard linear measures shall be tested by comparison with a Jersey standard of equivalent length being either a separate standard or a standard marked by divisions on a longer Jersey standard which has been certified under Article 8 of the Law as being so marked.

(2) Where such a comparison reveals an error which exceeds the relevant limit specified in Part 1 of Schedule 2 the working standard shall not be further used until it has been so adjusted that any error is within that limit.

4 Weights

(1) Working standard weights shall be tested by comparison with an equivalent Jersey standard weight.

(2) The comparison shall be made on a balance which complies with the requirements of Article 6 and is such that the weight required to produce a displacement of 1 division of restpoint is less than the amount specified in Part 2 of Schedule 2 as the limit of error for the weight which is being tested.

(3) If the comparison reveals a difference which exceeds the relevant limit of error the weight which has been tested shall not be further used until it has been so adjusted that any error is within that limit.

5 Capacity measures

(1) In this Article "working standard capacity measure" includes in the case of a multifiller measuring instrument every measure incorporated in that instrument.

(2) A working standard capacity measure shall be tested as a measure of the amount which it is intended to measure, or if it is subdivided to be a measure of more than 1 amount, as a measure of its maximum purported capacity and as a measure of at least 1 amount indicated by a subdivision.

(3) Such a measure shall be tested –

(a) where the test relates to an indicated imperial measurement not exceeding 1 gal. or an indicated metric measurement not exceeding 5l., by comparison with an equivalent Jersey standard;

(b) in any other case by comparison with not more than 2 Jersey standards of an equivalent total capacity or with a Jersey standard of 1 gal. or 5l. (used the requisite number of times).

(4) The accuracy of any tolerance marks adjacent to any graduation tested pursuant to paragraph (2) shall also be tested.

(5) Water shall be used for testing.

(6) Only Jersey standards or working standards or articles of testing equipment tested in accordance with this Order shall be used for testing.

(7) Where testing reveals an error which exceeds the relevant limit specified in Part 3 of Schedule 2, the tested measure shall not be further used until it has been so adjusted that any error is within that limit.

PART 3

TESTING EQUIPMENT

6 Balances and beamscales

(1) Balances and beamscales shall be tested by using Jersey standard or working standard weights.

(2) Testing shall be carried out by determining –

(a) the weight required to be added to the balance or beamscale when fully loaded in order to produce one division change of restpoint;

(b) the discrepancy between the restpoint with the balance or beamscale unloaded and the mean value of the restpoints obtained before and after the interchange of loads equivalent to the full capacity, that is to say, the length of arm error; and

(c) 12 successive restpoints with the balance or beamscale fully loaded (the load being removed or replaced between the determination of each restpoint) and calculating the range of each 3 successive determinations.

(3) Where –

(a) the weight required to be added as aforesaid exceeds the relevant amount specified in Part 4 or Part 5 of Schedule 2;

(b) the said discrepancy exceeds 2 divisions of the scale in the case of a balance or one division in the case of a beamscale; or

(c) the average of the 4 ranges determined in accordance with paragraph 2(c) of this Article exceeds 2 divisions of the scale in the case of a balance or beamscale of a capacity of not less than 56 lb or 25 kg or one division in any other case,

the relevant balance or beamscale shall not be further used as testing equipment until it has been so adjusted as to eliminate the excess.

7 Test weights

(1) Test weights shall be tested by comparison on a beamscale which complies with the requirements of –

(a) Article 6; or

(b) the Weights and Measures (General Provisions) (Jersey) Order 1968 for a Class B beamscale of that capacity for use for trade.

(2) Jersey standard weights or working standard weights shall be used for testing test weights.

(3) Where a test reveals an error exceeding the relevant limit specified in Part 6 of Schedule 2, the tested weight shall not be further used until it has been so adjusted that any error is within that limit.

8 Egg grading machine test poises

(1) Egg grading machine test poises shall be tested by the use of a balance of a capacity not exceeding 1 lb or 200 g.

(2) Where a test reveals that a poise is more than 0.75 grains too heavy or more than 0.25 grains too light it shall not be further used until it has been so adjusted that any error is within those limits.

9 Pipettes and displacement plungers

(1) Pipettes and displacement plungers shall be tested with water, the temperature of which is as near as practicable to 20° centigrade. For purposes of any test of imperial equipment, 1 fl. oz. of water shall be deemed to weigh 28.3 g and for the purposes of any test of metric equipment, 10 ml of water to weigh 9.97 g.

(2) A pipette shall be tested as a measure of its maximum purported capacity and as a measure of at least 1 amount indicated by a subdivision by filling it to the level of the graduation, discharging it and weighing the water discharged.

(3) A displacement plunger shall be tested by weighing the amount of water it displaces from a displacement vessel.

(4) The limit of error as respects a pipette shall be the relevant weight indicated in the second column of Part 7 of Schedule 2 in relation to its maximum purported capacity.

(5) The limit of error as respects a displacement plunger shall be the relevant weight indicated in the second column of Part 8 of Schedule 2.

(6) Where testing reveals an error which exceeds the relevant limit, the pipette or displacement plunger in question shall not be further used until it has been so adjusted that any error is within that limit.

PART 4

10 Citation

This Order may be cited as the Weights and Measures (Working Standards and Testing Equipment) (Testing and Adjustment) (Jersey) Order 1975.

SCHEDULE 1

Article 1(1)

SYMBOLS AND ABBREVIATIONS USED IN THIS ORDER

Imperial		*Metric*	
foot	ft	metre	m
gallon	gal	millimetre	mm
pint	pt	litre	l
fluid ounce	fl. oz	millilitre	ml
pound	lb	kilogramme	kg
ounce	oz	gramme	g
grain	gr	milligramme	mg
		carat (metric)	C.M

SCHEDULE 2

PART 1

(Article 3(2))

LINEAR MEASURES

(a) *Imperial*

Working Standard of –	Limit of error in inches
10 ft or more ...	0.2
less than 10 ft but more than 3 ft ...	0.04
3 ft or less	0.02

(b) *Metric*

Working Standard of –	Limit of error in millimetres
50m	10.0
30m or 20m	7.5
10m	5.0
5m	2.5
3m	1.5
2m or 1.5m	1.0
1m or less	0.5

PART 2

(Article 4(2))

WORKING STANDARD WEIGHTS

1. *Imperial System*.

(a) *Avoirdupois weights*.

Working Standard of –	Limit of error in grains
56 lb	5.0
50 lb	4.0
28 lb	3.0
20 or 14 lb	2.0
10 lb	1.6
7, 5 or 4 lb	1.0
2 lb	0.6
1 lb, 8 or 4 oz ...	0.4
2 or 1 oz	0.2
8 drams or less ...	0.1

(b) *Grain weights*

Working Standard of – grains	Limit of error in grains
20 or more	0.02
10, 5, 3, 2, 1 or 0.5	0.012
0.3	0.008
0.2	0.004
0.1	0.002
0.05 or 0.03	0.0012
0.02	0.001
0.01	0.0005

2. *Metric System*.

(a) *Metric weights other than carat (metric) weights.*

Working Standard of –	Limit of error in milligrammes
20 kg	300
10 kg	200
5 kg	100
2 kg	60
1 kg	40
500 or 200 g	20
100 g	8
50 g	6
20 or 15 g	4

(b) *Carat (metric) weights*.

Working Standard of – C.M.	Limit of error in milligrammes
500 or 200	2.0
100 or 50	0.8
20, 10, 5, 2 or 1 ...	0.4
0.5, 0.25 or 0.2 ...	0.2
0.1 or less	0.08

10, 5, 4, 3 or 2 g;	2
1 g, 500, 400, 300, 200, 150, 100 or 50 mg ...	0.8
20 mg	0.4
10 mg	0.2
5 or 2 mg...	0.08
1 mg	0.04

(c) *Troy Weights.*

Working Standard of – ounces troy	Limit of error in grains
300 or more...	1.6
200 or 100	1.2
50 or 40	0.8
30 or 20	0.4
10	0.2
5, 4 or 3	0.12
2 or 1	0.08
0.5, 0.4 or 0.3	0.04
0.2, 0.1 or 0.04	0.02
0.03 or less	0.012

PART 3

(Article 5(7))

CAPACITY MEASURES[1]

(a) *Imperial.*

Indicated capacity of, or tolerance mark relating to –	Limit of error in millilitres
5 gal	18.0
4 gal	15.0
3 gal	12.0
2 gal	8.0
1 gal	5.0
½ gal	4.0
1 quart	3.0
1 pt	2.0
½ pt, 8 fl. oz. $\frac{1}{3}$ pt or 6 fl. oz ...	1.0
1 gill	0.5
½ gill	0.4
$\frac{2}{5}$ gill	0.35
¼ gill	0.30
$\frac{1}{5}$ gill	0.20

(b) *Metric.*

Indicated capacity of, or tolerance mark relating to –	Limit of error in millilitres
20 1	20.0
10 1	12.0
5 1	6.0
2.5 1	5.0
2 1	4.0
1 1	2.5
500 ml	1.5
250 ml	1.0
200 ml	0.7
175ml.....	0.6
125 ml	0.5
100 ml	0.4
50 ml	0.3
25 ml	0.25
20 or 10 ml	0.20
5 ml	0.15
2 or 1 ml	0.10

PART 4

(Article 6(3))

MINIMUM SENSITIVENESS OF BALANCES

Capacity of Balance	Maximum weight value per division change or restpoint
(a) *Imperial*.	
56 1b	0.8 gr
Less than 56 1b but not less than 7 1b ...	0.24 gr
„ 7 1b „ „ „ „ 1 1b ...	0.04 gr
„ 1 1b „ „ „ „ 1 oz ...	0.004 gr
„ 1 oz	0.0004 gr
(b) *Metric*.	
25 kg	15 mg
5 kg	4 mg
200 g	0.5 mg
20 g	0.025 mg

PART 5

(Article 6(3))

MINIMUM SENSITIVENESS OF BEAMSCALES

Capacity of beamscale	Maximum weight value per division change of restpoint
(a) *Imperial.*	
56 lb	8 gr
Less than 56 lb but not less than 20 lb ...	4 gr
„ „ 20 lb „ „ „ „ 14 lb ...	3 gr
„ „ 14 lb „ „ „ „ 7 lb ...	2.5 gr
„ „ 7 lb „ „ „ „ 4 lb ...	1.6 gr
„ „ 2 lb „ „ „ „ 1 lb ...	0.8 gr
„ „ 1 lb „ „ „ „ 8 oz ...	0.3 gr
„ „ 8 oz „ „ „ „ 4 oz ...	0.2 gr
„ „ 4 oz „ „ „ „ 2 oz ...	0.12 gr
„ „ 2 oz „ „ „ „ 1 oz ...	0.08 gr
„ „ 1 oz	0.04 gr
(b) *Metric.*	
25 kg	500 mg
5 kg	150 mg
200 g	15 mg
20 g	2.5 mg

PART 6

(Article 7(3))

TEST WEIGHTS

Weight	Limits of error
(a) *Imperial.*	
56 lb	25 gr
50 lb	20 gr
28 lb	15 gr
20 lb or 14 lb	10 gr
10 lb	8 gr
7, 5 or 4 lb ...	5 gr
2 lb	3 gr
1 lb or less ...	2 gr

Weight	Limits of error
(b) *Metric.*	
250 or 200 kg	25 g*
100 or 50 kg ...	15 g*
20 kg	1.5 g
10 kg	1 g
5 kg	500 mg
2 kg	300 mg
1 kg	200 mg
500 g	100 mg
200 g	50 mg
100 g	20 mg

* In excess only.

PART 7

(Article 9(4))

PIPETTES

Maximum purported capacity	Limit of error in milligrammes (any test)
(a) *Imperial*, fl. oz.	
1	100
¼ or ½	60
(b) *Metric*, ml	
25	120
10	80
5	60
2 or 1	40

PART 8

(Article 9(5))

DISPLACEMENT PLUNGERS

Size of plunger in fluid ounces –	Limit of error in milligrammes
1 or ½	200
¼ or $\frac{1}{8}$	150

ENDNOTES

Table of Legislation History

Legislation	Year and No	Commencement
Weights and Measures (Working Standards and Testing Equipment) (Testing and Adjustment) (Jersey) Order 1975	R&O.6235	1 January 1976
Weights and Measures (Working Standards and Testing Equipment) (Testing and Adjustment) (Amendment) (Jersey) Order 1991	R&O.8184	18 March 1991

Table of Renumbered Provisions

Original	Current
1(3)	spent, omitted from this revised edition
(4)	(3)

Table of Endnote References

[1] *Schedule 2* *Part 3 amended by R&O.8184*