



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Indiana Division of Weights and Measures

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200421-0

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

DIMENSIONAL

NVLAP Code: 20/D13

Surveying Rods and Tapes

<i>Range</i>	<i>Best Uncertainty (±) in inches ^{note 1}</i>	<i>Remarks</i>
1 in	0.003	Rigid Rule
2 in	0.004	Rigid Rule
3 in	0.003	Rigid Rule
4 in	0.004	Rigid Rule
5 in	0.004	Rigid Rule
6 in	0.004	Rigid Rule
7 in	0.003	Rigid Rule
8 in	0.003	Rigid Rule
9 in	0.003	Rigid Rule
10 in	0.003	Rigid Rule
11 in	0.003	Rigid Rule
12 in	0.003	Rigid Rule
12 in	0.046	Rigid Rule (aluminum)
18 in	0.041	Rigid Rule (aluminum)
24 in	0.028	Rigid Rule (aluminum)
36 in	0.034	Rigid Rule (aluminum)

2009-01-01 through 2009-12-31

Effective dates

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48 in	0.054	Rigid Rule (aluminum)
60 in	0.062	Rigid Rule (aluminum)
72 in	0.070	Rigid Rule (aluminum)
84 in	0.076	Rigid Rule (aluminum)
96 in	0.078	Rigid Rule (aluminum)
1 ft	0.005	Bench Method
2 ft	0.006	Bench Method
3 ft	0.006	Bench Method
4 ft	0.007	Bench Method
5 ft	0.006	Bench Method
6 ft	0.010	Bench Method
7 ft	0.008	Bench Method
8 ft	0.009	Bench Method
9 ft	0.009	Bench Method
10 ft	0.009	Bench Method
11 ft	0.016	Bench Method
12 ft	0.015	Bench Method
13 ft	0.019	Bench Method
14 ft	0.018	Bench Method
15 ft	0.022	Bench Method
16 ft	0.022	Bench Method
1 ft	0.020	Tape to Tape
2 ft	0.029	Tape to Tape
3 ft	0.033	Tape to Tape
4 ft	0.032	Tape to Tape
5 ft	0.039	Tape to Tape
6 ft	0.040	Tape to Tape
7 ft	0.032	Tape to Tape
8 ft	0.041	Tape to Tape
9 ft	0.047	Tape to Tape
10 ft	0.040	Tape to Tape
15 ft	0.033	Tape to Tape
20 ft	0.034	Tape to Tape

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25 ft	0.044	Tape to Tape
30 ft	0.040	Tape to Tape
35 ft	0.038	Tape to Tape
40 ft	0.043	Tape to Tape
45 ft	0.037	Tape to Tape
50 ft	0.041	Tape to Tape
55 ft	0.053	Tape to Tape
60 ft	0.043	Tape to Tape
65 ft	0.046	Tape to Tape
70 ft	0.047	Tape to Tape
75 ft	0.047	Tape to Tape
80 ft	0.044	Tape to Tape
85 ft	0.045	Tape to Tape
90 ft	0.048	Tape to Tape
95 ft	0.036	Tape to Tape
100 ft	0.044	Tape to Tape

TIME AND FREQUENCY

NVLAP Code: 20/F02
Time Dissemination

<i>Range in hours</i>	<i>Best Uncertainty (±) in seconds^{note 1}</i>	<i>Remarks</i>
3	0.120	Stop Watches
24	0.184	Stop Watches

MECHANICAL

NVLAP Code: 20/M08
Mass - Metric

<i>Range</i>	<i>Best Uncertainty (±)^{note 1}</i>	<i>Remarks</i>
60 kg	0.11 g	Echelon II
50 kg	48 mg	Echelon II
30 kg	15 mg	Echelon II
25 kg	14 mg	Echelon II

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200421-0

20 kg	13 mg	Echelon II
10 kg	2.8 mg	Echelon II
5 kg	2.1 mg	Echelon II
4 kg	2.1 mg	Echelon II
3 kg	2.0 mg	Echelon II
2 kg	3.6 mg	Echelon II
1 kg	0.16 mg	Echelon II
500 g	0.11 mg	Echelon II
300 g	0.04 mg	Echelon II
200 g	0.04 mg	Echelon II
100 g	27 µg	Echelon II
92.82 g	33 µg	Echelon II
50 g	40 µg	Echelon II
30 g	30 µg	Echelon II
20 g	26 µg	Echelon II
10 g	21 µg	Echelon II
5 g	11 µg	Echelon II
3 g	9.2 µg	Echelon II
2 g	5.6 µg	Echelon II
1 g	4.8 µg	Echelon II
500 mg	2.1 µg	Echelon II
300 mg	1.4 µg	Echelon II
200 mg	1.9 µg	Echelon II
100 mg	2.2 µg	Echelon II
50 mg	1.1 µg	Echelon II
30 mg	1.4 µg	Echelon II
20 mg	1.4 µg	Echelon II
10 mg	1.1 µg	Echelon II
5 mg	1.8 µg	Echelon II
3 mg	1.4 µg	Echelon II
2 mg	0.80 µg	Echelon II
1 mg	1.1 µg	Echelon II

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200421-0

Mass – Avoirdupois

1000 lb	1.9 g	Echelon II
500 lb	1.2 g	Echelon II
250 lb	1.3 g	Echelon II
200 lb	1.3 g	Echelon II
100 lb	0.60 g	Echelon II
50 lb	13 mg	Echelon II
30 lb	15 mg	Echelon II
25 lb	15 mg	Echelon II
20 lb	3.8 mg	Echelon II
10 lb	2.8 mg	Echelon II
5 lb	4.1 mg	Echelon II
3 lb	2.6 mg	Echelon II
2 lb	1.1 mg	Echelon II
1 lb	0.28 mg	Echelon II
0.5 lb	0.08 mg	Echelon II
0.3 lb	0.12 mg	Echelon II
0.25 lb	70 µg	Echelon II
0.2 lb	67 µg	Echelon II
0.1 lb	50 µg	Echelon II
0.05 lb	19 µg	Echelon II
0.03 lb	18 µg	Echelon II
0.02 lb	18 µg	Echelon II
0.01 lb	7.2 µg	Echelon II
0.005 lb	5.7 µg	Echelon II
0.003 lb	5.4 µg	Echelon II
0.002 lb	5.2 µg	Echelon II
0.001 lb	5.3 µg	Echelon II
500 µlb	5.1 µg	Echelon II
300 µlb	5.0 µg	Echelon II
200 µlb	2.4 µg	Echelon II
100 µlb	2.4 µg	Echelon II
50 µlb	2.0 µg	Echelon II
30 µlb	0.8 µg	Echelon II

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CALIBRATION LABORATORIES

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20 µlb	1.3 µg	Echelon II
10 µlb	1.3 µg	Echelon II
5 µlb	0.78 µg	Echelon II
3 µlb	0.78 µg	Echelon II
2 µlb	0.77 µg	Echelon II
1 µlb	0.80 µg	Echelon II
Mass – Metric		
1000 kg	5 g	Echelon III
500 kg	9 g	Echelon III
250 kg	2.9 g	Echelon III
200 kg	4.8 g	Echelon III
100 kg	1.9 g	Echelon III
60 kg	0.33 g	Echelon III
50 kg	0.67 g	Echelon III
30 kg	0.19 g	Echelon III
25 kg	0.16 g	Echelon III
20 kg	28 mg	Echelon III
10 kg	13 mg	Echelon III
5 kg	7.7 mg	Echelon III
4 kg	9.6 mg	Echelon III
3 kg	4.4 mg	Echelon III
2 kg	4.7 mg	Echelon III
1 kg	4.3 mg	Echelon III
500 g	2.2 mg	Echelon III
464.08 g	3.6 mg	Echelon III
300 g	3.5 mg	Echelon III
200 g	0.36 mg	Echelon III
185.63 g	0.24 mg	Echelon III
100 g	0.22 mg	Echelon III
92.82 g	0.22 mg	Echelon III
50 g	0.15 mg	Echelon III
30 g	68 µg	Echelon III
20 g	35 µg	Echelon III
10 g	27 µg	Echelon III

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5 g	25 µg	Echelon III
3 g	15 µg	Echelon III
2 g	6.9 µg	Echelon III
1 g	4.3 µg	Echelon III
500 mg	6.7 µg	Echelon III
300 mg	7.0 µg	Echelon III
200 mg	7.0 µg	Echelon III
100 mg	6.2 µg	Echelon III
50 mg	6.3 µg	Echelon III
30 mg	7.0 µg	Echelon III
20 mg	4.4 µg	Echelon III
10 mg	4.0 µg	Echelon III
5 mg	3.0 µg	Echelon III
3 mg	4.9 µg	Echelon III
2 mg	3.8 µg	Echelon III
1 mg	3.7 µg	Echelon III

Mass – Avoirdupois

6000 lb	66 g	Echelon III
5000 lb	65 g	Echelon III
3000 lb	20 g	Echelon III
2500 lb	19 g	Echelon III
2000 lb	6 g	Echelon III
1000 lb	3.9 g	Echelon III
500 lb	4.1 g	Echelon III
250 lb	1.9 g	Echelon III
200 lb	1.5 g	Echelon III
100 lb	0.60 g	Echelon III
75 lb	0.19 g	Echelon III
50 lb	0.16 g	Echelon III
30 lb	0.14 g	Echelon III
25 lb	0.15 g	Echelon III
20 lb	15 mg	Echelon III
10 lb	9.1 mg	Echelon III
5 lb	8.0 mg	Echelon III

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4 lb	8.0 mg	Echelon III
3 lb	6.7 mg	Echelon III
2 lb	5.0 mg	Echelon III
1 lb	4.0 mg	Echelon III
0.5 lb	4.8 mg	Echelon III
0.03 lb	0.43 mg	Echelon III
0.25 lb	0.39 mg	Echelon III
0.2 lb	0.36 mg	Echelon III
0.1 lb	0.14 mg	Echelon III
0.05 lb	0.16 mg	Echelon III
0.03 lb	0.10 mg	Echelon III
0.02 lb	67 µg	Echelon III
0.01 lb	23 µg	Echelon III
0.005 lb	30 µg	Echelon III
0.003 lb	27 µg	Echelon III
0.002 lb	28 µg	Echelon III
0.001 lb	17 µg	Echelon III
2 oz	0.29 mg	Echelon III
1 oz	0.20 mg	Echelon III
0.5 oz	0.16 mg	Echelon III
0.25 oz	0.10 mg	Echelon III
0.125 oz	73 µg	Echelon III
0.0625 oz	88 µg	Echelon III
0.0313 oz	89 µg	Echelon III

NVLAP Code: 20/M12
Volume

Range	Best Uncertainty (±) ^{note 1}	Remarks
1000 gal	77 in ³	Volume Transfer
100 gal	4.4 in ³	Volume Transfer
50 gal	2.1 in ³	Volume Transfer

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15 gal	0.50 in ³	Volume Transfer
5 gal	0.15 in ³	Volume Transfer
20 l	3.0 ml	Volume Transfer
1 gill	0.11 ml	Volume Transfer
20 gal	0.60 in ³	Water Draw – DSVP
5 gal	0.00033 gal	Gravimetric
1 gill	0.032 ml	Gravimetric
25 ml	0.14 ml	Gravimetric

THERMODYNAMIC

NVLAP Code: 20/T03
Laboratory Thermometers

Range in °C	Best Uncertainty (±) in °C ^{note 1}	Remarks
60	0.13	Liquid in Glass
50	0.18	Liquid in Glass
30	0.17	Liquid in Glass
20	0.11	Liquid in Glass
0	0.040	Liquid in Glass

1. Represents an expanded uncertainty using a coverage factor, k = 2, at an approximate level of confidence of 95 %.

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