NEBB Instrument Master List (Effective January 1, 2026)

Discipline / Function			RANGE					ACCURACY						RESOLUTION					BET	RSC	CDT	FHT	RCx	Sound	TAB	Vibration	Notes	Calibration Requirements
Air	Air Pressure		0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001	in wg	<	1	in wg	x	x	x		x		x			12 Months
														0.01	in wg	>	1	in wg										
			0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10	Pa	<	250	Pa										
														1.0	Pa	>	250	Pa										
	Air Velocity Instrument for Pitot Traverse		100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm				x	x	x		x		x			12 Months
			0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s													
	FHT Air Velocity (Thermal Anemometer)		25	fpm	to	2500	fpm	±	3%	of reading	±	3	fpm	1	fpm							x						12 Months
			0.10	m/s	to	12.7	m/s	±	3%	of reading	±	0.02	m/s	0.01	m/s													
	Digital Direct Reading Hood		100	cfm	to	2000	cfm	±	5%	of reading	±	7	cfm	1	cfm					x	x		x		x			12 Months
			50	l/s	to	944	l/s	±	5%	of reading	±	4	l/s	1	l/s													
Temperature	Air Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F				x	x			x		x			12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C													
	Immersion Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					x			x		x			12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C													
Humidity	Humidity Meter with detachable probe		10	% RH	to	90	% RH	±	3%	RH				1%						x			x		x			12 Months
Electrical	Amperage Measurement		0.1	AC Ampere	to	100	AC Amperes		2%	of reading	±	5	digits	0.1	AC Ampere					x			x		x			12 Months
	Voltage Meter - True RMS		1	VAC	to	600	VAC		2%	of reading	±	5	digits	1	Volt													12 Months
Rotation	Rotation Measurement		60	rpm	to	5000	rpm		2%	of reading	±	2	rpm	1	rpm					x			x		x			12 Months
Hydronic	Pressure Measurement		0.4	psi	to	200	psi		2%	of reading	±	1	psi	0.1	psi					x			x		x			12 Months
			3	kPa	to	1400	kPa		2%	of reading	±	7	kPa	1.0	kPa													
	Δ Pressure measurement		0.4	psi	to	75	psi		2%	of reading	±	0.5	psi	0.01	psi					x			x		x			12 Months
			3	kPa	to	500	kPa		2%	of reading	±	3.5	kPa	0.1	kPa													
RCx Instruments	Receptacle Circuit Tester		125	VAC				Not Applicable						Not Applicable									x					Not Required
	Voltage Detector		50	VAC	to	1000	VAC	Not Applicable						Not Applicable									x					Not Required
	Light Level Measurement		0	FC	to	4000	FC	±	3%	of reading	+	5%	full scale	0.1	FC								x					Per Manufacturer's Requirements
			0	lx	to	40000	lx	±	3%	of reading	+	5%	full scale	1.0	lx													
BET / RCx Instruments	Temp Documentation Thermal Camera		32	°F	to	212	°F	±	3%		or	5.5	°F	0.1 @ 86 °F		&	160 x 120		x				x				*8	Per Manufacturer's Requirements
			0	°C	to	100	°C	±	3%		or	3	°C	0.1 @ 30 °C		&	160 x 120											

NEBB Instrument Master List (Effective January 1, 2026)

Discipline / Function			RANGE					ACCURACY						RESOLUTION					BET	RSC	CDT	EBT	RCx	Sound	TAB	Vibration	Notes	Calibration Requirements
Data Loggers	Carbon Dioxide CO_2		0	ppm	to	2500	ppm	±	5%	of reading	±	50	ppm	1	ppm							x				Qty = 1	Per Manufacturer's Requirements
	Carbon Monoxide CO		3	ppm	to	1000	ppm	±	10%	of reading	±	7	ppm	1	ppm							x				Qty = 1	Per Manufacturer's Requirements
	Lighting Levels		0	FC	to	3000	FC	±	10	FC				2	FC							x				Qty = 1	See Note 5
			0	lx	to	30000	lx	±	100	lx				0	lx												
	Electrical		0	VAC	to	600	VAC		2%	of reading			VAC	1.0	VAC							x				Qty = 2	See Note 5
			0	Amperes	to	100	Amperes		4%	of reading			Ampere	0.1	Ampere												
	Static Pressure - Low		0	in wc	to	0.25	in wc	±	1%	full scale				0.01	in wc	<	1	in wc				x				Qty = 1	See Note 5
														0.1	in wc	>	1	in wc									
			0	Pa	to	60	Pa	±	1%	full scale				2.5	Pa	<	250	Pa									
														25	Pa	>	250	Pa									
	Static Pressure - High		0	in wc	to	6.00	in wc	±	1%	full scale				0.01	in wc	<	1	in wc				x				Qty = 1	See Note 5
														0.1	in wc	>	1	in wc									
			0	pa	to	1500	Pa	±	1%	full scale				2.5	Pa	<	250	Pa									
														25	Pa	>	250	Pa									
	Water Pressure		0	psi	to	100	psi	±	1%	of reading	psi			1.0	psi							x				Qty = 1	See Note 5
			0	kPa	to	700	kPa	±	1%	of reading	kPa			0.1	kPa												
	Temperature		-4	°F	to	150	°F	±	0.63	°F	@	32-122	°F	0.05	°F	@	77	°F				x				Qty = 8	See Note 5
			-20	°C	to	65	°C	±	0.35	°C	@	0-50	°C	0.03	°C	@	25	°C									
	Humidity		10	% RH	to	90	% RH		2.5%	RH				1%	RH							x				Qty = 8	See Note 5
	Event		Not Applicable					Not Applicable						Not Applicable								x				Qty = 2	Not required
RCx Instruments	Thermal Infrared Thermometer		-4	°F	to	500	°F	±	2%	of reading	±	4	°F	0.5	°F							x					Per Manufacturer's Requirements
			-20	°C	to	260	°C	±	2%	of reading	±	2	°C	0.2	°C												
	TDS Meter		0	µ	to	1000	µ	±	2%	full scale				1.0%								x					Per Manufacturer's Requirements
			0	ppm	to	1000	ppm	±	2%	full scale																	
	Capacitance Moisture Meter		0%		to	100%		±	5%					0.75	inches	Penetration						x					Per Manufacturer's Requirements
CPT Instruments	Particle Counter		A light scattering instrument with display or recording means to count and size discrete particles in air, as defined by ASTM F50-07. Instruments of this type shall provide for a minimum sampling flow rate of 28.3 L/min (1.0 cfm) and a threshold size discrimination of a minimum of 0.3 micrometer in size.																	x						*7	12 Months

NEBB Instrument Master List (Effective January 1, 2026)

Discipline / Function			RANGE	ACCURACY	RESOLUTION	BET	RSC	CDT	FHT	RCx	Sound	TAB	Vibration	Notes	Calibration Requirements
CPT Option 1	Aerosol Photometer	CHOOSE ONLY 1 OF THE 2 OPTIONS	The instrument shall have a threshold sensitivity of 0.01%-100% of the challenge aerosol particles and be capable of measuring concentrations with a minimum range from 10 to 90 micrograms/liter. Sample flow rate shall be 28.3 L/min (1 cfm). Readout shall be linear with an accuracy of 1% of full scale of the selected range. ± 2% of reading with a flow rate of 28.3 L/min (1 cfm).				x							*1 & *7	12 Months or 400 operating hours
	Pneumatic Aerosol Generator		A device that can aerosolize oil medium to serve as an artificial challenge for filter integrity testing of systems under 3,000 cfm, typically Laskin nozzle(s) type, atomizer, etc.				x							*1	Not Required
	Thermal Aerosol Generator		A device that can aerosolize oil medium to serve as an artificial challenge for filter integrity testing of systems of 3,000 to 60,000 cfm				x							*1	Not Required
CPT Option 2	Optical Particle Counter for Scan Test		A particle counter should have at least a 1.0 cfm flow rate with a threshold sensitivity of at least 0.3µm. The counter must have an audible alarm for every particle that is counted. The particle counter shall have a continuous counting mode or a sample time that exceeds the time required to completely scan the area of the filter under test. This counter may also be used for Cleanliness Classification above.				x							*1 & *7	12 Months
	Diluter		A device used with the scanning particle counter to sample the aerosol challenge upstream of a filter under test. The dilution ratio should be between 300 – 1,000:1. The resulting counts after dilution should not exceed 100,000 particles.				x							*1	12 Months
	Aerosol Generator		A device that can aerosolize oil or microsphere medium to serve as an artificial challenge for filter integrity testing.				x							*1	Not Required
FHT Instruments	Tracer Gas Detector		Minimum detection range: 0.01 PPM. Minimum response time: 1 second. The units shall be configured to measure sulfur hexafluoride (SF6), or other approved tracer gas, and display in concentration measurement units. (PPM)	± 10% of reading or 0.025 ppm whichever is greater	0.01 ppm			x							12 Months
	Detection Calibrator		Device used to calibrate the detection instrument in accordance with the manufacturer's specifications.	Not Applicable	Not Applicable			x							12 Months When Required
	Local Challenge Source		Device that can generate a small relatively neutrally buoyant smoke, discharging with minimal velocity.	Not Applicable	Not Applicable			x							Not Required
	Large Challenge Source		Device that can generate a large relatively neutrally buoyant smoke, discharging with minimal velocity.	Not Applicable	Not Applicable			x							Not Required
	Ejector w/critical orifice		Shall conform to the requirements as indicated in the current edition of NEBB FHT PS. See appendix D for instrument specifications.	Not Applicable	Not Applicable			x							Not Required
	Orifice Calibrator	Flow Meter	0 l/m to 10 l/m	± 3%	0.1 l/m			x						*2	Calibrate to appropriate tracer gas
		Mechanical Device	0 l/m to 15 l/m	± 0.1 l/m	0.1 l/m			x						*2	12 Months
	Tracer Gas		Sulfur Hexafluoride Commercial grade (Minimum purity of 99%) or approved replacement gas.	Not Applicable	Not Applicable			x							SDS Required
	Mannequin		A three dimensional mannequin (torso) with arms and shall be of reasonable human proportions and be clothed with a lab coat. The height must be adjustable to meet the height requirements of the various hood configurations; i.e. standard bench hood, ADA height, floor mounted, etc. Probe shall be placed in the normal breathing zone based on the various heights.		Not Applicable			x							Not Required
BET Instruments	Digital pressure flow measurement system		Not Applicable	± 4% of reading	0.1 Pa (0.0004 inwc, 0.002 psf)	x									Per Manufacturer's Requirements

NEBB Instrument Master List (Effective January 1, 2026)

Discipline / Function			RANGE	ACCURACY	RESOLUTION	BET	RSC	CDT	FHT	RCx	Sound	TAB	Vibration	Notes	Calibration Requirements
Sound Instruments	Sound Level Meter & Octave Band Analyzer		Sound Level Meters (SLM's) with time averaging and full octave band filters (optional third octave band filters)	As listed in Table 3-1.2.1, 3-1.2.2 and 3-1.2.3 which conforms to Type 1 or Type 2 requirements specified in ANSI S1.4	which conforms Appendix A of the NEBB Instrument List					x				*3	12 Months
			Full Octave Filters	As listed in table 3-1.2.2 and 3-1.2.3 (which conforms withANSI S1.11 Specification for Octave-Band and Fractional-Octave-Band Analog & Digital Filters	which conforms Appendix A of the NEBB Instrument List										
	Acoustic Calibrator		As listed in Table 3-1.1 (which comforms to ANSI S1.40 Specification for Acoustical Calibrators							x				*3	12 Months
Vibration Instruments	Vibration Analyzer / Meter, Real Time Analyzer & Spectrum Analyzer		Shall meet the minimum requirements as specified below:												
			Displacement – 0.1 to 100 mils (0.0001 to 0.1 inches)												
			Velocity – 0.0005 to 10 in/sec												
			Acceleration – 0.0001 to 30 G's												
			Frequency Range – at least 1 to 1000 Hz (60 to 60,000 RPM)												
			Frequency Resolution – at least 1.25 Hz (1 / 75 RPM) Minimum										x	*4	12 Months
			Lines of resolution ≥ 800												
			Detection - Peak, Peak-to-Peak, RMS												
			FFT Windowing- Hanning at least												
			Averaging – exponential or time and selectable to at least four averages												
	Accelerometers / Transducer		Shall have the following minimum specifications:												
			Sensitivity (± 20%) ≥ 100 mV/G typical										x	*4	12 Months
			Measurement Range = ± 20 G peak or greater												
			Frequency Range = 2 to 3000 Hz at ± 3dB												

NOTES

*1	CPT Option - choose only Option 1 OR Option 2 - along with required instrument for CPT certification (All instruments in any of the chosen is required)
*2	FHT Orifice Calibrator - Choose only one.
*3	Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)
*4	Firms may own or rent vibration equipment instrumentation for vibration certification
*5	Calibration Requirement: Data logger calibration may be verified from a calibrated instrument with an associated calibration form showing calibration readings from both the calibrated instrument and the data logger. If a data logger is out of calibration and cannot be adjusted, the logger must be sent back to the factory for re-calibration or be replaced
*6	Accuracy of an instrument is either stated as a percentage of full scale or as a percentage of the reading. NEBB has chosen percentage of reading due to it being a more accurate reading. Since a % of reading error becomes smaller as you read near the lowest part of the scale the instrument resolution and accuracy must be very small to maintain the accuracy of the reading. To overcome this the manufactures add a standard offset to the % of reading to maintain a reasonable accuracy at all locations on the scale. Normally for TAB readings we are never operating at the extreme ends of the scale so this has no impact on our work.
*7	Calibrated per Industry/Manufacturer standards.
*8	Firms may own or rent Temp Documentation Thermal Camera for RCx. BET Temp Documentation Thermal Camera must be owned.
*9	Sound level meters with vibration integrators are *NOT* acceptable for NEBB approved instrumentation for making vibration measurements. That is, 1/3 octave or full octave vibration readings are not sufficient for NEBB Sound and Vibration work.
*10	Vibration meters, which ONLY acquire and display the overall vibration level, displacement, velocity, and/or acceleration DO NOT meet NEBB minimum requirements for Vibration instrumentation.
	These types of meters may only be used if the contract documents specifically allow for their usage.
General Note:	Some local jurisdictions require qualified electrician for any electrical readings
Calibration Requirement:	Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.

Discipline / Function		BET Required Instrumentation (Effective January 1, 2026)																				
			RANGE					ACCURACY						RESOLUTION					Notes	Calibration Requirements
Air	Air Pressure		0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001	in wg	<	1	in wg		12 Months
														0.01	in wg	>	1	in wg		
			0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10	Pa	<	250	Pa		
														1	Pa	>	250	Pa		
	Air Velocity Instrument for Pitot Traverse		100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm					12 Months
			0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s					
Temperature	Air Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
BET / RCx Instruments	Temp Documentation Thermal Camera		32	°F	to	212	°F	±	3%		or	5.5	°F	0.1 @ 86 °F		&	160 x 120			Per Manufacturer's Requirements
			0	°C	to	100	°C	±	3%		or	3	°C	0.1 @ 30 °C		&	160 x 120			
BET Instruments	Digital pressure flow measurement system		Not Applicable					±	4%	of reading				0.1 Pa (0.0004 inwc, 0.002 psf)						Per Manufacturer's Requirements

NOTES

***1** CPT Option - choose only Option 1 OR Option 2 - along with required instrument for CPT certification (All instruments in any of the chosen is required)

***2** FHT Orifice Calibrator - Choose only one.

***3** Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)

***4** Firms may own or rent vibration equipment instrumentation for vibration certification

***5** Calibration Requirement: Data logger calibration may be verified from a calibrated instrument with an associated calibration form showing calibration readings from both the calibrated instrument and the data logger. If a data logger is out of calibration and cannot be adjusted, the logger must be sent back to the factory for re-calibration or be replaced

***6** Accuracy of an instrument is either stated as a percentage of full scale or as a percentage of the reading. NEBB has chosen percentage of reading due to it being a more accurate reading. Since a % of reading error becomes smaller as you read near the lowest part of the scale the instrument resolution and accuracy must be very small to maintain the accuracy of the reading. To overcome this the manufactures add a standard offset to the % of reading to maintain a reasonable accuracy at all locations on the scale. Normally for TAB readings we are never operating at the extreme ends of the scale so this has no impact on our work.

***7** Calibrated per Industry/Manufacturer standards.

***8** Firms may own or rent Temp Documentation Thermal Camera for RCx. BET Temp Documentation Thermal Camera must be owned.

*9 Sound level meters with vibration integrators are *NOT* acceptable for NEBB approved instrumentation for making vibration measurements. That is, 1/3 octave or full octave vibration readings are not sufficient for NEBB Sound and Vibration work.

*10 Vibration meters, which ONLY acquire and display the overall vibration level, displacement, velocity, and/or acceleration DO NOT meet NEBB minimum requirements for Vibration instrumentation. These types of meters may only be used if the contract documents specifically allow for their usage.

General Note: Some local jurisdictions require qualified electrician for any electrical readings

Calibration Requirement: Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.

Discipline / Function		BSC Required Instrumentation (Effective January 1, 2026)																			Notes	Calibration Requirements
			RANGE					ACCURACY						RESOLUTION								
Air	Air Pressure		0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001 0.01	in wg in wg	< >	1 1	in wg in wg				12 Months
			0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10 1	Pa Pa	< >	250 250	Pa Pa				
	Air Velocity Instrument for Pitot Traverse		100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm							12 Months
			0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s							
	Digital Direct Reading Hood		100	cfm	to	2000	cfm	±	5%	of reading	±	7	cfm	1	cfm							12 Months
			50	l/s	to	944	l/s	±	5%	of reading	±	4	l/s	1	l/s							
Temperature	Air Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F							12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C							
	Immersion Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F							12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C							
Humidity	Humidity Meter with detachable probe		10	% RH	to	90	% RH		3%	RH				1%								12 Months
Electrical	Amperage Measurement		0.1	AC Ampere	to	100	AC Amperes		2%	of reading	±	5	digits	0.1	AC Ampere							12 Months
	Voltage Meter - True RMS		1	VAC	to	600	VAC		2%	of reading	±	5	digits	1	Volt							12 Months
Rotation	Rotation Measurement		60	rpm	to	5000	rpm		2%	of reading	±	2	rpm	1	rpm							12 Months
Hydronic	Pressure Measurement		0.4	psi	to	200	psi		2%	of reading	±	1	psi	0.1	psi							12 Months
			3	kPa	to	1400	kPa		2%	of reading	±	7	kPa	1	kPa							
	Δ Pressure measurement		0.4	psi	to	75	psi		2%	of reading	±	0.5	psi	0.01	psi							12 Months
			3	kPa	to	500	kPa		2%	of reading	±	3.5	kPa	0.1	kPa							

NOTES

*1 CPT Option - choose only Option 1 OR Option 2 - along with required instrument for CPT certification (All instruments in any of the chosen is required)

*2 FHT Orifice Calibrator - Choose only one.

*3 Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)

*4 Firms may own or rent vibration equipment instrumentation for vibration certification

*5 Calibration Requirement: Data logger calibration may be verified from a calibrated instrument with an associated calibration form showing calibration readings from both the calibrated instrument and the data logger. If a data logger is out of calibration and cannot be adjusted, the logger must be sent back to the factory for re-calibration or be replaced

*6 Accuracy of an instrument is either stated as a percentage of full scale or as a percentage of the reading. NEBB has chosen percentage of reading due to it being a more accurate reading. Since a % of reading error becomes smaller as you read near the lowest part of the scale the instrument resolution and accuracy must be very small to maintain the accuracy of the reading. To overcome this the manufactures add a standard offset to the % of reading to maintain a reasonable accuracy at all locations on the scale. Normally for TAB readings we are never operating at the extreme ends of the scale so this has no impact on our work.

*7 Calibrated per Industry/Manufacturer standards.

*8 Firms may own or rent Temp Documentation Thermal Camera for RCx. BET Temp Documentation Thermal Camera must be owned.

*9 Sound level meters with vibration integrators are *NOT* acceptable for NEBB approved instrumentation for making vibration measurements. That is, 1/3 octave or full octave vibration readings are not sufficient for NEBB Sound and Vibration work.

*10 Vibration meters, which ONLY acquire and display the overall vibration level, displacement, velocity, and/or acceleration DO NOT meet NEBB minimum requirements for Vibration instrumentation. These types of meters may only be used if the contract documents specifically allow for their usage.

General Note: Some local jurisdictions require qualified electrician for any electrical readings

Discipline / Function	BSC Required Instrumentation (Effective January 1, 2026)					
		RANGE	ACCURACY	RESOLUTION	Notes	Calibration Requirements
Calibration Requirement:	Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.					

Discipline / Function			CPT Required Instrumentation (Effective January 1, 2026)																	Notes	Calibration Requirements
			RANGE					ACCURACY						RESOLUTION							
Air	Air Pressure		0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001 0.01	in wg in wg	<	1 1	in wg in wg			12 Months
			0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10 1	Pa Pa	<	250 250	Pa Pa			
	Air Velocity Instrument for Pitot Traverse		100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm						12 Months
			0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s						
	Digital Direct Reading Hood		100	cfm	to	2000	cfm	±	5%	of reading	±	7	cfm	1	cfm						12 Months
			50	l/s	to	944	l/s	±	5%	of reading	±	4	l/s	1	l/s						
CPT Instruments	Particle Counter		A light scattering instrument with display or recording means to count and size discrete particles in air, as defined by ASTM F50-07. Instruments of this type shall provide for a minimum sampling flow rate of 28.3 L/min (1.0 cfm) and a threshold size discrimination of a minimum of 0.3 micrometer in size.																	*7	12 Months
CPT Option 1	Aerosol Photometer	CHOOSE ONLY 1 OF THE 2 OPTIONS	The instrument shall have a threshold sensitivity of 0.01%-100% of the challenge aerosol particles and be capable of measuring concentrations with a minimum range from 10 to 90 micrograms/liter. Sample flow rate shall be 28.3 L/min (1 cfm). Readout shall be linear with an accuracy of 1% of full scale of the selected range. ± 2% of reading with a flow rate of 28.3 L/min (1 cfm).																	*1 & *7	12 Months or 400 operating hours
	Pneumatic Aerosol Generator		A device that can aerosolize oil medium to serve as an artificial challenge for filter integrity testing of systems under 3,000 cfm, typically Laskin nozzle(s) type, atomizer, etc.																	*1	Not Required
	Thermal Aerosol Generator		A device that can aerosolize oil medium to serve as an artificial challenge for filter integrity testing of systems of 3,000 to 60,000 cfm																	*1	Not Required
CPT Option 2	Optical Particle Counter for Scan Test		A particle counter should have at least a 1.0 cfm flow rate with a threshold sensitivity of at least 0.3µm. The counter must have an audible alarm for every particle that is counted. The particle counter shall have a continuous counting mode or a sample time that exceeds the time required to completely scan the area of the filter under test. This counter may also be used for Cleanliness Classification above.																	*1 & *7	12 Months
	Diluter		A device used with the scanning particle counter to sample the aerosol challenge upstream of a filter under test. The dilution ratio should be between 300 – 1,000:1. The resulting counts after dilution should not exceed 100,000 particles.																	*1	12 Months
	Aerosol Generator		A device that can aerosolize oil or microsphere medium to serve as an artificial challenge for filter integrity testing.																	*1	Not Required

NOTES

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*2 FHT Orifice Calibrator - Choose only one.

*3 Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)

*4 Firms may own or rent vibration equipment instrumentation for vibration certification

*5 Calibration Requirement: Data logger calibration may be verified from a calibrated instrument with an associated calibration form showing calibration readings from both the calibrated instrument and the data logger. If a data logger is out of calibration and cannot be adjusted, the logger must be sent back to the factory for re-calibration or be replaced

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Discipline / Function	CPT Required Instrumentation (Effective January 1, 2026)					
		RANGE	ACCURACY	RESOLUTION	Notes	Calibration Requirements

General Note: Some local jurisdictions require qualified electrician for any electrical readings

Calibration Requirement: Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.

Discipline / Function		FHT Required Instrumentation (Effective January 1, 2026)																			Notes	Calibration Requirements
			RANGE					ACCURACY						RESOLUTION								
Air	FHT Air Velocity (Thermal Anemometer)		25	fpm	to	2500	fpm	±	3%	of reading	±	3	fpm	1	fpm							12 Months
			0.10	m/s	to	12.7	m/s	±	3%	of reading	±	0.02	m/s	0.01	m/s							
FHT Instruments	Tracer Gas Detector		Minimum detection range: 0.01 PPM. Minimum response time: 1 second. The units shall be configured to measure sulfur hexafluoride (SF6), or other approved tracer gas, and display in concentration measurement units. (PPM)					±	10%	of reading	or	0.025	ppm	0.01	ppm							12 Months
								whichever is greater														
	Detection Calibrator		Device used to calibrate the detection instrument in accordance with the manufacturer's specifications.					Not Applicable						Not Applicable								12 Months When Required
	Local Challenge Source		Device that can generate a small relatively neutrally buoyant smoke, discharging with minimal velocity.					Not Applicable						Not Applicable								Not Required
	Large Challenge Source		Device that can generate a large relatively neutrally buoyant smoke, discharging with minimal velocity.					Not Applicable						Not Applicable								Not Required
	Ejector w/critical orifice		Shall conform to the requirements as indicated in the current edition of NEBB FHT PS. See appendix D for instrument specifications.					Not Applicable						Not Applicable								Not Required
	Orifice Calibrator	Flow Meter	0	l/m	to	10	l/m	±	3%					0.1	l/m						*2	Calibrate to appropriate tracer gas
		Mechanical Device	0	l/m	to	15	l/m	±	0.1	l/m				0.1	l/m							12 Months
	Tracer Gas		Sulfur Hexafluoride Commercial grade (Minimum purity of 99%) or approved replacement gas.					Not Applicable						Not Applicable								SDS Required
	Mannequin		A three dimensional mannequin (torso) with arms and shall be of reasonable human proportions and be clothed with a lab coat. The height must be adjustable to meet the height requirements of the various hood configurations; i.e. standard bench hood, ADA height, floor mounted, etc. Probe shall be placed in the normal breathing zone based on the various heights.					Not Applicable						Not Applicable								Not Required

NOTES

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*3 Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)

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*10 Vibration meters, which ONLY acquire and display the overall vibration level, displacement, velocity, and/or acceleration DO NOT meet NEBB minimum requirements for Vibration instrumentation. These types of meters may only be used if the contract documents specifically allow for their usage.

General Note: Some local jurisdictions require qualified electrician for any electrical readings

Discipline / Function	FHT Required Instrumentation (Effective January 1, 2026)					
		RANGE	ACCURACY	RESOLUTION	Notes	Calibration Requirements
Calibration Requirement:	Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.					

RCx Required Instrumentation (Effective January 1, 2026)

Discipline	Function	RANGE					ACCURACY						RESOLUTION					Notes	Calibration Requirements
Air	Air Pressure	0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001 0.01	in wg in wg	< >	1 1	in wg in wg		12 Months
		0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10 1	Pa Pa	< >	250 250	Pa Pa		
	Air Velocity Instrument for Pitot Traverse	100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm					12 Months
		0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s					
	Digital Direct Reading Hood	100	cfm	to	2000	cfm	±	5%	of reading	±	7	cfm	1	cfm					12 Months
		50	l/s	to	944	l/s	±	5%	of reading	±	4	l/s	1	l/s					
Temperature	Air Meter with detachable probe	0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
		-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
	Immersion Meter with detachable probe	0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
		-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
Humidity	Humidity Meter with detachable probe	10	% RH	to	90	% RH		3%	RH				1%						12 Months
Electrical	Amperage Measurement	0.1	AC Ampere	to	100	AC Amperes		2%	of reading	±	5	digits	0.1	AC Ampere					12 Months
	Voltage Meter - True RMS	1	VAC	to	600	VAC		2%	of reading	±	5	digits	1	Volt					12 Months
Rotation	Rotation Measurement	60	rpm	to	5000	rpm		2%	of reading	±	2	rpm	1	rpm					12 Months
Hydronic	Pressure Measurement	0.4	psi	to	200	psi		2%	of reading	±	1	psi	0.1	psi					12 Months
		3	kPa	to	1400	kPa		2%	of reading	±	7	kPa	1	kPa					
	Δ Pressure measurement	0.4	psi	to	75	psi		2%	of reading	±	0.5	psi	0.01	psi					12 Months
		3	kPa	to	500	kPa		2%	of reading	±	3.5	kPa	0.1	kPa					
RCx Instruments	Receptacle Circuit Tester	125	VAC				Not Applicable						Not Applicable						Not Required
	Voltage Detector	50	VAC	to	1000	VAC	Not Applicable						Not Applicable						Not Required
	Light Level Measurement	0	FC	to	4000	FC	±	3%	of reading	+	5.0%	full scale	0.1	FC					Per Manufacturer's Requirements
		0	lx	to	40000	lx	±	3%	of reading	+	5.0%	full scale	1.0	lx					
BET / RCx Instruments	Temp Documentation Thermal Camera	32	°F	to	212	°F	±	3%		or	5.5	°F	0.1 @ 86 °F		&	160 x 120		*8	Per Manufacturer's Requirements
		0	°C	to	100	°C	±	3%		or	3	°C	0.1 @ 30 °C		&	160 x 120			

Discipline / Function		RCx Required Instrumentation (Effective January 1, 2026)																		
			RANGE					ACCURACY						RESOLUTION					Notes	Calibration Requirements
Data Loggers	Carbon Dioxide CO2		0	ppm	to	2500	ppm	±	5%	of reading	±	50	ppm	1	ppm				Qty = 1	Per Manufacturer's Requirements
	Carbon Monoxide CO		3	ppm	to	1000	ppm	±	10%	of reading	±	7	ppm	1	ppm				Qty = 1	Per Manufacturer's Requirements
	Lighting Levels		0	FC	to	3000	FC	±	10	FC				2	FC				Qty = 1	See Note 5
			0	lx	to	30000	lx	±	100	lx				0	lx					
	Electrical		0	VAC	to	600	VAC	0	2%	of reading			VAC	1.0	VAC				Qty = 2	See Note 5
			0	Amperes	to	100	Amperes	0	4%	of reading			Ampere	0.1	Ampere					
	Static Pressure - Low		0	in wc	to	0.25	in wc	±	1%	full scale				0.01 0.1	in wc in wc	< >	1 1	in wc in wc	Qty = 1	See Note 5
			0	Pa	to	60	Pa	±	1%	full scale				2.5 25	Pa Pa	< >	250 250	Pa Pa		
	Static Pressure - High		0	in wc	to	6.00	in wc	±	1%	full scale				0.01 0.1	in wc in wc	< >	1 1	in wc in wc	Qty = 1	See Note 5
			0	pa	to	1500	Pa	±	1%	full scale				2.5 25	Pa Pa	< >	250 250	Pa Pa		
	Water Pressure		0	psi	to	100	psi	±	1%	of reading	psi			1.0	psi				Qty = 1	See Note 5
			0	kPa	to	700	kPa	±	1%	of reading	kPa			0.1	kPa					
	Temperature		-4	°F	to	150	°F	±	1	°F	@	32-122	°F	0.05	°F	@	77	°F	Qty = 8	See Note 5
			-20	°C	to	65	°C	±	0.35	°C	@	0-50	°C	0.03	°C	@	25	°C		
	Humidity		10	% RH	to	90	% RH	0	2.5%	RH				1%	RH				Qty = 8	See Note 5
	Event		Not Applicable					Not Applicable						Not Applicable					Qty = 2	Not required

Discipline / Function		RCx Required Instrumentation (Effective January 1, 2026)																		
			RANGE					ACCURACY						RESOLUTION					Notes	Calibration Requirements
RCx Instruments	Thermal Infrared Thermometer		-4	°F	to	500	°F	±	2%	of reading	±	4	°F	0.5	°F					Per Manufacturer's Requirements
			-20	°C	to	260	°C	±	2%	of reading	±	2	°C	0.2	°C					
	TDS Meter		0	µ	to	1000	µ	±	2%	full scale				1.0%						Per Manufacturer's Requirements
			0	ppm	to	1000	ppm	±	2%	full scale										
	Capacitance Moisture Meter		0%	0	to	100%		±	5%					0.75	inches	Penetration				Per Manufacturer's Requirements

NOTES

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*3 Refer to Appendix A for complete instrumentation requirements for Sound Measurement (SM)

*4 Firms may own or rent vibration equipment instrumentation for vibration certification

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Discipline / Function		SM Required Instrumentation (Effective January 1, 2026)					
			RANGE	ACCURACY	RESOLUTION	Notes	Calibration Requirements
Sound Instruments	Sound Level Meter & Octave Band Analyzer		Sound Level Meters (SLM's) with time averaging and full octave band filters (optional	As listed in Table 3-1.2.1, 3-1.2.2 and 3-1.2.3 which conforms to Type 1 or Type 2 requirements specified in ANSI S1.4	which conforms Appendix A of the NEBB Instrument List	*3	12 Months
			Full Octave Filters	As listed in table 3-1.2.2 and 3-1.2.3 (which conforms withANSI S1.11 Specification for Octave-Band and Fractional-Octave-Band Analog & Digital Filters	which conforms Appendix A of the NEBB Instrument List		12 Months
	Acoustic Calibrator		As listed in Table 3-1.1 (which comforms to ANSI S1.40 Specification for Acoustical Calibrators			*3	12 Months

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General Note: Some local jurisdictions require qualified electrician for any electrical readings

Calibration Requirement: Instruments require a 3-point calibration, traceable to National Institute of Standards and Technology (NIST) or National Metrology Institute (NMI) unless otherwise noted.

TAB Required Instrumentation (Effective January 1, 2026)

Discipline / Function			RANGE					ACCURACY						RESOLUTION					Notes	Calibration Requirements
Air	Air Pressure		0	in wg	to	10	in wg		2%	of reading	±	0.001	in wg	0.001	in wg	<	1	in wg		12 Months
														0.01	in wg	>	1	in wg		
			0	Pa	to	2500	Pa		2%	of reading	±	0.25	Pa	0.10	Pa	<	250	Pa		
														1.0	Pa	>	250	Pa		
	Air Velocity Instrument for Pitot Traverse		100	fpm	to	3500	fpm	±	5%	of reading	±	7	fpm	1	fpm					12 Months
			0.50	m/s	to	20	m/s	±	5%	of reading	±	0.04	m/s	0.01	m/s					
	Digital Direct Reading Hood		100	cfm	to	2000	cfm	±	5%	of reading	±	7	cfm	1	cfm					12 Months
			50	l/s	to	944	l/s	±	5%	of reading	±	4	l/s	1	l/s					
Temperature	Air Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
	Immersion Meter with detachable probe		0	°F	to	200	°F	±	0.5%	of reading	+	2.0	°F	0.1	°F					12 Months
			-20	°C	to	100	°C	±	0.5%	of reading	+	1.0	°C	0.1	°C					
Humidity	Humidity Meter with detachable probe		10	% RH	to	90	% RH	±	3%	RH				1%						12 Months
Electrical	Amperage Measurement		0.1	AC Ampere	to	100	AC Amperes		2%	of reading	±	5	digits	0.1	AC Ampere					12 Months
	Voltage Meter - True RMS		1	VAC	to	600	VAC		2%	of reading	±	5	digits	1	Volt					12 Months
Rotation	Rotation Measurement		60	rpm	to	5000	rpm		2%	of reading	±	2	rpm	1	rpm					12 Months
Hydronic	Pressure Measurement		0.4	psi	to	200	psi		2%	of reading	±	1	psi	0.1	psi					12 Months
			3	kPa	to	1400	kPa		2%	of reading	±	7	kPa	1.0	kPa					
	Δ Pressure measurement		0.4	psi	to	75	psi		2%	of reading	±	0.5	psi	0.01	psi					12 Months
			3	kPa	to	500	kPa		2%	of reading	±	3.5	kPa	0.1	kPa					

NOTES

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Discipline / Function		VM Required Instrumentation (Effective January 1, 2026)					
			RANGE	ACCURACY	RESOLUTION	Notes	Calibration Requirements
Vibration Instruments	Vibration Analyzer / Meter, Real Time Analyzer & Spectrum Analyzer		Shall meet the minimum requirements as specified below: Displacement – 0.1 to 100 mils (0.0001 to 0.1 inches) Velocity – 0.0005 to 10 in/sec Acceleration – 0.0001 to 30 G's Frequency Range – at least 1 to 1000 Hz (60 to 60,000 RPM) Frequency Resolution – at least 1.25 Hz (1 / 75 RPM) Minimum Lines of resolution ≥ 800 Detection - Peak, Peak-to-Peak, RMS FFT Windowing- Hanning at least Averaging – exponential or time and selectable to at least four averages			*4	12 Months
	Accelerometers / Transducer		Shall have the following minimum specifications: Sensitivity (± 20%) ≥ 100 mV/G typical Measurement Range = ± 20 G peak or greater Frequency Range = 2 to 3000 Hz at ± 3dB				12 Months

NOTES

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