$\sim$	Discipline	CPT Required Instrumentation (Effective January 1, 2023)																		
Fui		RANGE					ACCURACY						RESOLUTION				Notes	Calibration Requirements		
Air	Air Pressure		0	in wg Pa	to to	10 2500	in wg Pa		2% 2%	of reading of reading	± ±	0.001	in wg Pa	0.001 0.01 0.10 1	in wg in wg Pa Pa	< > < >	1 1 250 250	in wg in wg Pa Pa		12 Months
	Air Velocity Instrument for Pitot Traverse		100 0.50	fpm m/s	to to	3500 20	fpm m/s	± ±	5% 5%	of reading of reading	± ±	7 0.04	fpm m/s	1 0.01	fpm m/s					12 Months
	Digital Direct Reading Hood		100 50	cfm I/s	to to	2000 944	cfm I/s	± ±	5% 5%	of reading of reading	± ±	7	cfm I/s	1	cfm I/s					12 Months
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	SNC	The instrument shall have a threshold sensitivity of 10-3 micrograms/liter of challenge aerosol particles and be capable of measuring concentrations over a range of 105 times the threshold sensitivity. Sample flow rate shall be 28.3 L/min (1 cfm). Readout shall be either linear with an accuracy of 1% of full scale of the selected range. ± 2% of reading ± 0.1 psi 0.04 psi (US) 12 Months or 400 operating hours															12 Months or 400 operating hours		
	Pneumatic Aerosol Generator	2 OPTIONS	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, thermal generator, atomizer, etc.															nozzle(s)	*1	Not Required
	Thermal Aerosol Generator	CHOOSE ONLY 1 OF THE 2	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 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.															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 shall be between 300 – 1,000:1. The resulting counts after dilution should not exceed 100,000 particles.															*1	12 Months	
	Aerosol Generator	СН	A device that can aerosolize oil or microsphere medium to serve as an artificial challenge for filter integrity testing. A low output (defined as one which supplies of < 5 x 10-9 particles /min of ≥ 0.3 um in size) or a normal output generator may be used.															*1	Not Required	
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 Onfrice 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 the reading. NEBB has chosen percentage of reading due to it being a more accurate reading. Since a % of reading error becomes smaller as your ead near the lowest cale 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 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 Calibration and calibration for any electrical readings   General Note: Some local jurisdictions require qualified electrician for any electrical readings   Calibration Referio a -point calibration, traceable to National Institute of Standa														or becomes smaller as						