

H-2.0 Major Recognized North American Standards and Guidelines of Good IH Practice

See H-1 for names and addresses of major sponsors. Sources/How-to-use: (1, 2, 8, 18)

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See Reference 18 for a complete list of SGGP.

<u>Topic</u>	<u>Title</u>	<u>Sponsor</u>	<u>Standard/Source</u> (use latest versions)
Air Pollution	Air Pollution Control Manual.	AWMA	ISBN 0-44200-843-0
Ergo/ Human factors			
Cumulative Trauma	Ergonomics Program Standard (proposed and eliminated). Control of Cumulative Trauma Disorders (proposed by NSC).	OSHA ANSI	29CFR1910.900, 945 ANSI Z365 (NSC)
VDT	Ergonomics Requirements for Office Work with VDTs.	ISO	ISO 9241
Biomechanics	Applications Manual for the Revised NIOSH Lifting Equation.	NIOSH	Publ 94-110
General IH			
OEL	TLV, BEI, STEL, C, Ca; physical agents PEL, STEL, C. WEEL, ERPG. REL, IDLH, Ca	ACGIH OSHA AIHA NIOSH	TLV Booklet 29CFR1910 WEEL Booklet NIOSH Pocket Guide
Sampling	OEL Sampling Strategy Manual.	NIOSH	Publ. 77-173
Analytical	Manual of Analytical Methods. Analytical Methods Manual.	NIOSH OSHA	GPO; 4th Edition 2nd Edition, 1990
Risk Assessment	Standard Guide for Risk-based Corrective Action.	ASTM	PS104-98
Detector tubes	ANS for Gas Detector Tubes—Short-term for Toxic Gases. and Vapors in Working Environments.	ANSI	ANSI 102-1990
IAQ			
General	Ventilation for Acceptable Indoor Air Quality.. The Ventilation Directory. Various standards for HVAC (to avoid fires).	ASHRAE NCSBCS NFPA	ASHRAE 62 -1999 Summary of standards Various (e.g., 90A)
Comfort	Thermal Comfort. Comfort, Air Quality and Efficiency by Design.	ASHRAE ACCA	ASHRAE 55 - 1996 ACCA Manual RS - 1997
Air filters	Filter testing methods (Arrestance/Dust Spot). Filter testing methods (MERV). Test Performance of Air Filter Units. Air Filter Equipment.	ASHRAE ASHRAE ASHRAE UL ARI	ASHRAE 52.1 - 1992 ASHRAE 52.2 2000 ANSI/UL 900 - latest ARI 850 - latest

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HVAC/ducts (cont.)	Recommended standards for duct cleaning. Standards and practice for TAB. Guideline for HVAC Commissioning.	NADCA NEBB ASHRAE	ACR 2000 Various standards ASHRAE Guideline 1
Air mixing	Methods for Testing Ventilation Effectiveness .	ASHRAE	ASHRAE 129 - latest
Humidity	Commercial and Industrial Humidifiers.	ARI	ARI 640 - latest
Bio-aerosols	Guidelines for the Assessment of Bioaerosols.	ACGIH	ACGIH Publication
Testing	Practices for Measurement and Testing. HVAC Testing, Adjusting, and Balancing. Method of Testing for Room Air Diffusion.	ASHRAE SMACNA ASHRAE	ASHRAE 111 - latest SMACNA 1993 ASHRAE 113
Laboratory			
Ventilation	Laboratory Ventilation	ANSI	ANSI Z9.5-2001 (AIHA)
Fire	Fire protection in lab ventilation systems	NFPA	NFPA 45-1996
Employee protection	Occupational Exposures to Hazardous Chemicals in Labs	OSHA	29CFR1910.1450
Hood Face Velocity	Method of Testing Performance of Lab Fume Hoods	ASHRAE	ASHRAE 110-1995
Bioaerosols	Class II Cabinets	NSF	Standard No. 49
Noise			
Hearing conservation	Hearing Conservation Standard. Compendium of Hearing Protection Devices.	OSHA NIOSH	29CFR1910.95 Publ. DHHS 95-105, 1995
Construction Exposure	Occupational Noise Exposures. Determination of Occupational Noise Exposure and Estimation of Noise-induced Hearing Impairment. Measurement of Occupational Noise Exposure.	OSHA ANSI ANSI	29CFR1926.52 ANSI S3.44-1996
PPE			
General	PPE for General Industry.	OSHA	29CFR1910.132 to 139
Testing	Annual Book of Standards (34 test standards for PPE).	ASTM	ASTM Book, Section 11-1999
Eye and face	Standard Practice for Eye and Face Protection. Radiation Exposure as Low as Reasonably Achievable. Radiological Control Manual.	ANSI USDOE	ANSI Z87.1-1998 Publ. DOE/EH-0256T
Radiation			
Non-ionizing	Safe Use of Lasers.	ANSI	ANSI Z136.1 to 6-2000
Ionizing	Various Federal Regulations. Various Federal Regulations.	NRC OSHA	10CFR 19, 20, 30, 33, 35, 40 29CFR1910.96

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<u>Topic</u>	<u>Title</u>	<u>Sponsor</u>	<u>Standard/Source</u> (use latest versions)
Radiation (cont.)	Operating Philosophy for Maintaining Occupational...	NRC	Reg. Guide 8.10
Respirators			
General	Respiratory Protection Standard.	OSHA	29CFR1910.134
Certification	Certification Standards. NIOSH Certified Equipment List.	NIOSH NIOSH	42CFR84
Usage	ANS Practice for Respiratory Protection. Respiratory Protection, Use, and Physical Qualifications. NIOSH Guide to the Selection and Use of Particulate Respirators Certified under 42CFR84. NIOSH Respirator Decision Logic.	ANSI ANSI NIOSH NIOSH	Publ. DHHS 99-127 ANSI Z88.2-1992 (AIHA) ANSI Z88.6-1992 (AIHA) Publ. DHHS 96-101
Thermal Stress			
Measurement	Estimation of the Heat Stress on Working Man, Based on the WBGT Index (Wet Bulb Globe Temperature).	ISO	ISO 7243-1989
Training/Education			
General	Hazard Communications Standard. Hazardous Waste O and E Response. Criteria for Accepted Practices in SH&E Training.	OSHA OSHA ANSI	29CFR1910.1200 29CFR1910.120 ANSI Z490 (ASSE)
Ventilation			
General	Industrial Ventilation Manual. Exhaust air recirculation.	ACGIH ANSI	24th edition ANSI Z9.7
Specific operations	Open surface tanks, spray finishing, abrasive blasting, grinding, general exhaust. OSHA Ventilation Standard (abrasive blasting, grinding open-surfaced tanks, spray finishing).	ANSI OSHA	ANSI Z9.1 to Z9.4 29CFR1910.94
Fans	Testing fan sound power. Standards Handbook. Blower and exhaust systems. Fans and Blowers.	ASHRAE AMCA NFPA ARI	ASHRAE 68 - latest AMCA 99-83 + others NFPA 91 ARI 670
LEV	Fundamentals Governing the Design and Operation of :LEV	ANSI	ANSI Z9.2-2001
Semiconductor	SEMI International Standards—Facility & Safety.	SEMI	F1-F16, S2 and S6
Auditing	Exhaust Ventilation Management Guideline with Audit Tool.	ACGIH	ISBN 1-88241-716-x