

Training Matrix | Facilities Operating Engineers

Name: _____ Job Title: _____ Year: _____

This matrix outlines the required and recommended environmental, health, and safety training for your job. Online training and registration for in-person training offered by Environmental Health and Safety can be found on [myHR Learn](#). Courses that are automatically assigned in myHR Learn are denoted with an asterisk.

Course	Regulatory Authority	Recommended or Required/Frequency	Completion Date
Asbestos	29 CFR 1910.1001	In-Person (initial) required initially and In-Person (refresher) annually thereafter for anyone who may disturb asbestos-containing material; In-Person required initially and annually thereafter for all others	
Back Injury Prevention		Online* required for all initially and periodically thereafter	
Behavior-Based Safety		Online* recommended for all initially and periodically thereafter	
Bloodborne Pathogens	29 CFR 1910.1030	Online* required if First Aid/CPR certified initially and annually thereafter, and recommended for all others initially and then periodically thereafter	
Boiler Maintenance Safety		Online recommended for all initially and regularly thereafter	
Cold Stress in the Workplace		Online* recommended for all initially and periodically thereafter	
Compressed Gas	29 CFR 1910.101	Online* required for all who use compressed gas initially and periodically thereafter	
Confined Spaces: Awareness	29 CFR 1910.146	Online* required for all initially and periodically thereafter	
Confined Spaces: Authorized Entrants, Attendants, and Supervisors (theory – classroom)	29 CFR 1910.146	In-Person required for all initially, conditionally (i.e., new job, responsibility, workplace changes, post-incident, and supervisor discretion), and every 3 years thereafter	
Confined Spaces: Authorized Entrants, Attendants, and Supervisors (practical/ demonstration – in-field)	29 CFR 1910.146	In-Person required for all initially, conditionally (i.e., new job, responsibility, workplace changes, post-incident, and supervisor discretion), and every 3 years thereafter	
Control of Hazardous Energy (Lockout/Tagout)	29 CFR 1910.147	Online* required for all initially, conditionally (i.e., change in work assignment, machines/equipment, or LOTO procedure), and periodically thereafter; In-Person ¹ required for all and periodically thereafter	
Electrical	29 CFR 1910 Subpart S	Online* required for all initially and periodically thereafter	

¹ Contact [Environmental Health and Safety](#) to schedule in-person training.

Northwestern

Course	Regulatory Authority	Recommended or Required/Frequency	Completion Date
Electrical Hazards and Safety		Online recommended for all initially and regularly thereafter	
Emergency Evacuations	29 CFR 1910.38	Online* required for all initially and annually thereafter; In-Person ² fire drills required at specific buildings annually and recommended at all others annually; In-Person ³ ad hoc training is available upon request	
Fall Protection: Awareness	29 CFR 1910.28	Online* required for all initially and periodically thereafter	
Fall Protection: Authorized Person	29 CFR 1910.28	In-Person required for designated “authorized persons” initially, conditionally (i.e., new job, responsibility, workplace changes, post-incident, supervisor discretion), and every 3 years thereafter	
Fall Protection: Competent Person	29 CFR 1910.28	In-Person required for designated “competent persons” initially, conditionally (i.e., new job, responsibility, workplace changes, post-incident, supervisor discretion), and every 3 years thereafter	
Fire Extinguishers	29 CFR 1910.157	Online* required for all initially and annually thereafter; In-Person , hands-on required for all who perform hot work and recommended for all others initially and annually thereafter	
First Aid and CPR/AED	29 CFR 1910.151	In-Person ⁴ recommended for all (at department’s discretion) initially and every other year thereafter	
Flammable and Combustible Liquids	29 CFR 1910.39	Online* required for all initially and periodically thereafter	
Hand and Power Tools	29 CFR 1910 Subpart I	Online* required for all initially, when there’s a change in equipment, and periodically thereafter; In-Person ⁵ required for all initially and periodically thereafter	
Hazard Communication	29 CFR 1910.1200	Online* required for all initially, when there’s a new hazard, and annually thereafter; In-Person required for Hazard Communication Coordinators initially and annually thereafter	
Heat Illness Prevention		Online* required for all initially and periodically thereafter	
Hot Work Permit Requirements	29 CFR 1910 Subpart Q	Online required for all who review and approve hot work permits initially and periodically thereafter	
Incident Investigation		Online* recommended for all initially and periodically thereafter	
Industrial Ergonomics		Online* recommended for all initially and periodically thereafter	
Job Hazard Analysis		Online* recommended for all initially and periodically thereafter	

² Contact [Environmental Health and Safety](#) to schedule in-person fire drills.

³ Contact [Environmental Health and Safety](#) to schedule in-person ad hoc training.

⁴ Available from multiple sources, including [Research Safety](#).

⁵ Certain tools (e.g., powder-actuated tools) require specialized tool-specific training, which is often times provided by the manufacturer. Contact [Environmental Health and Safety](#) for more details.

Northwestern

Course	Regulatory Authority	Recommended or Required/Frequency	Completion Date
Ladders	29 CFR 1910.23	Online* required for all who use ladders initially and annually thereafter	
Machine Guarding	29 CFR 1910 Subpart O	Online* recommended for all initially and annually thereafter	
Mobile Elevated Work Platforms (MEWPs)	29 CFR 1910 Subpart F	Online* and In-Person ⁶ required for all who operate MEWPs initially and every 3 years thereafter; Online recommended for all others who work in close proximity to MEWPs initially and periodically thereafter	
Mold and Mildew Awareness		Online* required for all initially and periodically thereafter	
Occupational Noise Exposure	29 CFR 1910.95	Online required for all in Chicago initially and annually thereafter; In-Person ⁷ required for all in Evanston initially and annually thereafter	
OSHA 10-Hour General Industry	29 CFR 1910	In-Person recommended for all initially	
Overhead and Gantry Cranes and Hoists	29 CFR 1910.179	Online* required for all who operate cranes and hoists initially and regularly thereafter	
Pallet Jacks	29 CFR 1910.178	Online* and In-Person ⁸ required for all who operate a pallet jack initially and every 3 years thereafter	
Pedestrian Safety Around Forklifts	29 CFR 1910.178	Online* recommended for all initially and periodically thereafter	
Personal Protective Equipment	29 CFR 1910 Subpart I	Online* required for all initially, when there's a change in PPE use, and periodically thereafter	
Powered Industrial Trucks (PITs)	29 CFR 1910.178	Online* and In-Person ⁹ required for all who operate a PIT initially and every 3 years thereafter; Online recommended for all others who work in close proximity to PITs initially and periodically thereafter	
Resource Conservation and Recovery Act	40 CFR 239-282	Online* required for all initially and annually thereafter; In-Person required for all who coordinate hazardous waste pick-up sites initially and annually thereafter	
Respiratory Protection	29 CFR 1910.134	Online* required for all initially and annually thereafter; In-Person ¹⁰ required for all who wear a respirator initially, any time there's a new hazard, and annually thereafter	
Scaffolds	29 CFR 1910.28 refers to 29 CFR 1926.451	Online* and In-Person ¹¹ required for all initially and periodically thereafter	

⁶ Contact [Environmental Health and Safety](#) to schedule train-the-trainer training, if your department does not already have a designated trainer for the in-person training.

⁷ Contact [Environmental Health and Safety](#) to schedule in-person training with NUCASLL.

⁸ Contact [Environmental Health and Safety](#) to schedule in-person training.

⁹ Contact [Environmental Health and Safety](#) to schedule in-person training.

¹⁰ Contact [Environmental Health and Safety](#) to schedule a medical evaluation and/or respirator-specific training/fit testing.

¹¹ Third-party in-person training is required for anyone who will be erecting, manipulating, or inspecting scaffolding. Contact [Environmental Health and Safety](#) for third-party trainer recommendations.

Northwestern

Course	Regulatory Authority	Recommended or Required/Frequency	Completion Date
Slips, Trips, and Falls	29 CFR 1910.22	Online* recommended for all initially and periodically thereafter	
Welding, Cutting, and Brazing (Hot Work)	29 CFR 1910 Subpart Q	Online* required for all who operate welding, cutting, or brazing equipment initially and periodically thereafter	