

School in CTE Shop/Laboratory Facilities

Personal safety of students in school shops and laboratories is dependent upon adequate facility, instruction, and oversight factors. Shop and laboratory safety includes the following five (5) accident classifications identified within the Bureau of Labor Statistics (BLS), Occupational Injury and Illness Classification Manual:

1. Contact with objects and equipment
 - Includes accidents resulting from caught-in or struck-by; struck by a falling or flying object. A person can be struck by flying objects from machines without protective guards. Parts of a body may get caught in or struck by exposed moving parts if machines are not properly guarded, or not locked out when being repaired.
2. Slips, Trips & Falls
 - Includes accidents resulting from poor housekeeping, slippery floors, inadequate fall protection, or unsafe ladders or scaffolds.
3. Bodily reaction and exertion
 - Includes accidents resulting from lifting, pulling, pushing, turning, welding, holding, carrying, or throwing, and repetitive motion.
4. Exposure to harmful substances or environments.
 - Includes exposure to harmful substances or environments, contact with electric current, contact with extreme temperatures, exposure to noise, etc.
5. Fires and Explosion
 - Includes possible burns, ignition of clothing, etc.

Schools requiring assistance in developing/ managing safety should consult the following safety-related resources:

1. Utilize the NIOSH Safety Checklist Program for Schools resources:

<http://www.cdc.gov/niosh/docs/2004-101/>

2. NIOSH Agriculture Resources

<http://www.cdc.gov/niosh/topics/agriculture/>

3. Utilize the NIOSH School Chemistry Laboratory Safety Guide

<http://www.cdc.gov/niosh/docs/2007-107/>

4. AIHA Ergonomic Reference Document

[http://www.aiha.org/news-pubs/govtaffairs/Documents/Ergonomics%20Reference%20Document%2011-10-11%20\(Hyperlinks%20Updated\).pdf](http://www.aiha.org/news-pubs/govtaffairs/Documents/Ergonomics%20Reference%20Document%2011-10-11%20(Hyperlinks%20Updated).pdf)

5. Free safety signs and other resources are available through EMC Online Services (safety signs, etc.)

http://www.emcins.com/losscontrol/online_services.aspx

6. If the school has safety issues, and to consult with Iowa On-Site Safety and Health Consultation and Education Request, on-site services are available at:

<http://www.iowaworkforce.org/labor/iosh/consultation/sitevisit.pdf>

Contact: Denny Reichardt (515) 242-6408; email: reichardt.dennis@dol.gov

7. If a school wishes to provide OSHA 10-hour training to students, Career Safe™ has a partnership with SkillsUSA to provide 10-Hour OSHA training for \$18/student

<http://www.skillsusa.org/educators/careersafe.shtml>

8. If a school wishes to provide instruction and resources focused on Young Worker Safety & Health

<http://www.cdc.gov/niosh/topics/youth/>