Supervisor of Summer and Co-Op Students

Start Training

ESH&Q at Fermilab

Supervisor Of Summer/Co-Op Students

Supervisor of Summer Students Training Class

To navigate through this course use the arrows located at the bottom of the screen. To move forward click the right arrow. To move backward click the left arrow.

"You only get *one* chance to make a good first impression."

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Class Objectives

- Understand the special precautions necessary for supervising summer students.
- Show how the IESHM Core Functions directly apply to job supervision of summer students.
- Learn the steps supervisors can take to minimize potential injuries to summer students.
- The importance of making a good first impression.

Class Content

- Laboratory policy and goals
- Issues surrounding working teens
- Summer student injury data
- New Employee Orientation (NEO)
- Supervisor actions for teen worker safety
- Prohibited activities for employees under 18
- Radiation exposure for employees under 18
- Informational resources

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Laboratory Policy

"Fermilab employees, users and subcontractors will only conduct work and operations in a safe and environmentally sound manner."

Laboratory Goals

For FY 2017 Fermilab will reduce:

- DART (Days Away, Restricted, or Transferred) cases to less than 5.
- the annual TRC (Total Recordable Cases) to less than 12.

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Laboratory Goals

Year	2011	2012	2013	2014	2015	2016	2017
TRC	21	38	24	24	18	27	<12
DART	6	17	7	10	12	5	<5

Why Set Safety Goals?

- Moral responsibility
- Demanded by contemporary society
- Good business practice

Young Workers

- 18.1 million young workers (ages 16-24) worked in the labor force in 2013. This represents 13% of the US workforce.
- 335 young workers were killed on the job in 2013.
- Workers < 25 years old were *twice as likely* to end up in the emergency room as those 25 years and older.
- Every 9 minutes, a U.S. teen gets hurt on the job.

Statistics are according to the CDC and OSHA Websites

Young Workers

- Inexperience
- Superman syndrome

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Summer Student Injury Data 2007-2016

Year	DART	Medical Treatment	First Aid	All Injuries
2007	0	0	5	5
2008	0	1	1	2
2009	0	0	1	1
2010	0	1	1	2
2011	0	0	4	4
2012	0	0	1	1
2013	1	0	4	5
2014	0	0	0	0
2015	0	0	2	2
2016	0	3	2	5
Total	1	5	21	27

Summer Student Injury Data 2007-2016

- Hands make up ~40% of all injuries.
- Arms (including the hand) account for ~50% of all injuries.
- Occupations with frequent injuries include:
  - outdoor work
  - soldering operations
  - equipment maintenance

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Summer Student Injury Data 2007-2016

- Types of injuries:
  - Lacerations (cuts)
  - Allergic reactions (poison ivy & insects bites)
  - Contusions (struck by or against)
  - Repetitive motion/mverexertion
  - Burns (heat)
  - Foreign body (eyes/hand)
  - Slips, trips and falls

Supervisor Of Summer/Co-Op Students

Supervisor of Summer Students Training Class

New Employee Orientation

- Fermilab's safety policies
- Stop work authority
- IESHM core functions and principles
- Hazard Analysis Process
- OSH protection for employees at Government Owned Contractor Operated (GOCO) facilities

FN000309

ESH&Q at Fermilab

Supervisor Of Summer/Co-Op Students

Supervisor of Summer Students Training Class

New Employee Orientation

- Employee access to exposure and medical records
- Lab's emergency procedures
- Lab's Environment Management System
- Lab's HazCom and GHS Program
- General Employee Radiation Training (GERT)

FN000309

Supervisor Actions for Teen Worker Safety

Pre-job orientation & (IESHM Principles & Core Functions)

1. Explain Division/Department operations.
2. Give them clear instructions and review safety/health requirements of job.
3. Ask them to repeat your instruction and give them an opportunity to ask questions.
4. Show them how to perform the task, then watch them as they do it, correcting the mistakes.

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Supervisor Actions for Teen Worker Safety

Pre-job orientation & (IESHM Principles & Core Functions)

5. Ask them if they have any additional questions.
6. Utilize "buddy or mentoring systems" when possible.
7. Ensure employees get any additional required training by performing an Individual Training Needs Assessment (ITNA).
8. Utilize the Fermilab New Employee Checklist.

Integrated ESH Management Principles

- Line management responsible for safety
- Clear roles & responsibilities
- Competence commensurate with responsibilities
- Balanced priorities
- Identification of safety standards & requirements
- Hazard controls tailored to work
- Operations authorization

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Integrated ESH Management Core Functions

- Define work
- Analyze hazards
- Establish controls
- Perform work
- Provide feedback & improvements

Prohibited Activities for employees *under 18* years of age

- Driving a motor vehicle and/or being an outside helper on a motor vehicle.
- Operating a power-driven woodworking machines.
- Operating a power-driven hoisting apparatus.
- Operating a power-driven metal-forming, punching, and/or shearing machines.

This information is according to the Labor Standards Act.

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Prohibited Activities for employees *under 18* years of age

- Operating power-driven circular saws, band saws, guillotine shears, chain saws, reciprocating saws, wood chippers, and abrasive cutting discs.
- Roofing operations and all work on or about a roof.
- Excavation operations.
- Exposure to radioactive substances and to ionizing radiation *unless* specific permission has been granted by the Laboratory Senior Radiation Safety Officer.

Specific Radiation Requirements for employees under 18 years of age

- Prior approval of the Senior Radiation Safety Officer (SRSO) is needed to enter a posted radiation area or any other radiological area.
- Not permitted to enter radiation areas where the dose rate exceeds 10 mrem/hr.
- Annual radiation dose may not exceed 100 mrem.

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

Specific Radiation Requirements for employees under 18 years of age

- He/She must carry a dosimeter when entering any radiation area and a daily dosimeter log must be kept by the supervisor and reviewed by the Radiation Safety Officer (RSO).
- Special radiation safety training, approved by the SRSO, must be given to persons under 18 years of age who could potentially receive more than 10 mrem, as estimated by the RSO.

Summary

- Reviewed Laboratory policy and goals
- Discussed concerns associated with working teens
- Reviewed summer student injury data
- Reviewed what's covered in NEO
- Discussed supervisor actions for teen worker safety
- Reviewed the prohibited activities and radiation exposure policy for employees under 18
- Reviewed informational resources

ESH&Q at Fermilab
Fermilab | U.S. DEPARTMENT OF ENERGY
Supervisor Of Summer/Co-Op Students
Supervisor of Summer Students Training Class

This concludes Supervisor Of Summer/Co-Op Students training. If you have any questions please contact the Course Contact.

You will need to take and pass a test in order to receive TRAIN credit for this course. Please click here to request the test.