Technology Teachers Safety & Responsibilities

http://teachertube.com/viewVideo.php?video_id=144518&title=Shop_Safety_Video_

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Safety in Technology Education Programs

Is an issue that has been on the backburner for the last 20 years

- Increased student numbers
- Multi-grade classes
- Students with learning disabilities
- ESL students
- Limited floor space
- Educational Assistance with limited or no training

Risk Management Guidelines for Public Sector November 2010

Every Manager (Principal) is responsible for:

- ➤ Integrating a <u>sound risk management</u> and process into the business process they are responsible for; and
- ➤ Reporting risks with causes, impacts or mitigations, beyond their scope or available resources to their "manager"

Every Employee (Teacher) is responsible for:

- Applying sound risk management within the scope of their duties and responsibilities and:
- ➤ Reporting risks with causes, impacts or mitigations, beyond their scope or available resources to their "manager"

Employer (school District) Responsibilities Heads Up for Safety

- provide a safe environment
- take action immediately when the worker or supervisor tells you about a potentially hazardous situation
- provide personal protective equipment where required

Supervisor (Technology Teachers) Responsibilities Handa Up for Safety

- Provides a safe learning environment Supervision of:
- > Students
- Educational Assistants

Has a duty to conduct risk assessments

- identify hazards in the shops
- ensure protection against hazards in the shops
- Implement mitigation strategies to reduce the hazards

Employee (Student) Responsibilities Heads Up for Safety

- know and follow safety and health procedures affecting your work
- if you don't know, ask for training before you begin work
- work safely and encourage your classmates to do the same
- correct or immediately report any unsafe conditions to your teacher
- take the initiative—make suggestions for improved safety conditions

Assessing the Risks Heads Up for Safety

Requires input from:

- ✓ Management,
- **✓** Site Committee
- ✓ Technology Teacher to:
 - Identifying and assess the impact of the identified hazards on those that work in the area
 - determine the likelihood that the hazard may lead to injury and/or disease
 - determine if the risk is low, medium or high
 - Take steps to mitigate the risk

Controlling the Risks Heads Up for Safety

- 1. Reduce the risk
- Can it be done in such a way that students are not exposed to the hazard?
- 2. Substitute (equipment or material) with something else
- > Can a different machine or tool be used?
- 3. Implement an engineering control
- Can a physical barrier be provided (e.g. guarding)?

Controlling the Risks Heads Up for Safety

- 4. Apply an administrative solution
- Can the shop be reorganized to provide a safe distance between the hazard and the students?
- 5. Provide personal protective equipment (PPE)
- Should only be considered if the <u>first</u> 4 steps are not feasible
- Ensure students follow safe work procedures when using PPE?

Record Keeping

Safety Tests:

- Did students attend the demonstrations on how to use the equipment?
- > Did they complete and pass the safety test?
- Did they attend/pass a make-up if they missed the demonstration or test?
- > All class records must be kept for 7 years
- In the case of an <u>accident</u>, they must be kept for <u>10 years</u>
- a student or their family has the right to make a claim for an injury that occurred during a school activity up until the student reaches the age of 21

Duty of Care Heads Up for Safety

The duty of care required, is determined by the following factors:

- 1. The probability of an accident happening;
- 2. The potential severity of such an accident; and
- 3. The costs of reducing risk.
- Judges have determined that there is a high probability of risk if safety instructions are not given clearly and carefully to students receiving instruction

Liability Heads Up for Safety

The law places a very strict 'duty of care' upon School Districts (who is the district?) and "teachers" (we know who the teacher is) with respect to students in shop classes.

- School Districts are required to provide safe facilities and equipment
- ➤ Teachers must provide proper supervision and instruction on the use of potentially dangerous equipment

Bill C-45

"217.1 Every one who undertakes, or has the authority, to direct how another person does work or performs a task is under a legal duty to take reasonable steps to prevent bodily harm to that person, or any other person, arising from that work or task."

http://www.ccohs.ca/oshanswers/legisl/billc45.html

WorkSafe BC in the Shops

WorkSafe Regulations are clear and concise in regards to:

- What safety protocol is required
- > Who is responsible for what
- Who, When, and Where training is required
- How & When inspections should be carried out
- Much of this information can be found in Section 3 of the OHS regulations



WORKING TO MAKE A DIFFERENCE

Legislation and regulation:

- **►WorkSafeBC administers the Workers Compensation Act**
- ➤ The <u>Act</u> gives WorkSafeBC the <u>legal authority</u> to set and enforce occupational health and safety regs.
- The Occupational Health and Safety (OHS) Regulation is one of the regulations in force under the Workers Compensation Act.
- The OHS Regulation contains legal requirements that must be met by all workplaces under the inspection jurisdiction of WorkSafeBC.

Young & "New Worker" see

Means any worker who is:

- > new to the workplace,
- returning to a workplace where the hazards in that workplace have changed during the worker's absence,
- affected by a change in the hazards of a workplace, or
- relocated to a new workplace if the hazards in that workplace are <u>different</u> from the hazards in the worker's previous workplace

Orientation & Training Sec 3.23 Young or New Worker

An employer <u>must</u> ensure that before a young or new worker begins work in a workplace:

- the young or new worker is given health and safety orientation and training specific to that young or new worker's workplace.
- An employer must keep records of all orientation and training provided under sections 3.23 and 3.24.

Workplace Inspections

Sec 3.5 General requirement

Every employer <u>must</u> ensure that <u>regular</u> inspections are made of all workplaces

- **>**buildings
- >Structures
- **≻**Tools, Machinery
- >work methods and practices

At intervals that will prevent the development of unsafe working conditions.

- >Interval timing relates to work-site risk
- >WS has no regs. stating intervals
- ➤ Shops at 2 3 months

Supervisor Work Safe

"a person who <u>instructs</u>, <u>directs</u>, <u>and controls</u> workers in the performance of their duties"

➤ if you fail to take action or delay taking action, you not only condone the unsafe activity, but you also encourage it

Effective supervision:

- Provide/verify workers' training before undertaking new tasks
- Verify that workers' performance meets expectations for safety
- Correct improper work activities and conditions

Due-Diligence worksafe

Requires you take the precautions a reasonable and prudent person would take to protect the well-being of employees or co-workers (from exposure to high risk practices)

- Identify current risk factors
- > Develop a plan to mitigate the risk factors
- implement the plan
- > Reporting risks to your manager (principle)

BCTEA Best Practices

October 2011

Completed a Provincial Risk Assessment:

(produced by technology teachers) as a component of our

- "Due-Diligence"
- ✓ identified many contributing factors in technology education shops increasing the risk of injury to:
- **Students**
- > Educational Assistance
- >Technology Teachers

BCTEA Best Practices

Risk Assessment

BCTEA report clearly describes the <u>"most</u> significant factors in whether there are safe learning environments for technology education students"

- >class size & composition
- >teacher qualifications
- > education assistant (EA) training
- > facilities and budgets

BCTEA Best Practices

Findings

Equipment:

- >Without proper guarding
- Without safe work zone markings

Classes:

- >inadequate space for program implementation
- > inability to effectively supervise classes over 20

Educational Assistants:

> Lack of specialized training for the shop environment

Students:

Increased diversity (special needs, ESL, drug use, multigrade & program offerings in one setting)

BCTEA Best Practices Guide mitigating steps

Produced a document:

- > Delivered to
 - **✓ Min. of Education**
 - **✓** Technology Teachers
- Calling on government to address of safety in technology education shops
- > Where do we go from here?

Personal Health & Safety Program Program

- Make a list of risks in your shop (areas or items of concern)
- Ask site com to have a visit of your shop (during instructional time with personnel familiar with the shop process)
- Invite WorkSafe to look at your facilities when you are teaching and offer suggestions
- Deal with industry reps for advise (ask the experts)
- Make sure you are an example of safety when you are working

Present Situation

Since 2007 - 2011

- > 705 <u>reported</u> injuries in industrial ed classes in B.C.
- > 24 from the Chilliwack school district
- > 17 of which occurred in the last year
- ➤ This list does not include "incidents" (near misses)