

Health and Safety Engineering Handout **Answer Key**

Safety concerns in the pictures:

Picture 1: The student does not understand how the tool works. He should ask the teacher for help and receive his or her permission before using the tool. Also, a loose headphone cord hangs from the student's sweatshirt collar.

Picture 2: The student is holding the scissors incorrectly. Always hold scissors by the handle with the blades facing downward. Also, a loose headphone cord hangs from the student's sweatshirt collar.

Picture 3: The student is wearing open-toed shoes and loose clothing (the scarf) in the lab.

Picture 4: The student is cleaning wood shavings by hand and could get cuts or splinters. Use a hand brush to clean up garbage and debris. Also, a loose headphone cord hangs from the student's sweatshirt collar.

Picture 5: The student is not wearing eye protection and the scarf might get caught and cause an injury.

Picture 6: Students might trip over the electrical cord or slip on the debris on the floor.

Picture 7: Only one person at a time should be in the safety zone. Also, a loose headphone cord hangs from the student's sweatshirt collar.

Bureau of Labor Statistics Reported Fatalities

2014 Construction Worker Fatalities	#
Caught in between	39
Electrocutions	74
Falls	359
Oil and gas pipeline accidents	21
Plumbing, heating and air conditioning accidents	69
Power lines	31
Struck by object	73

1. As the head of OSHA, interpret this chart. *What are the most common hazards for American workers?*

The most common construction worker hazards are falls, by quite a large margin. The next most common hazards are electrocutions, being struck by objects and plumbing/HVAC accidents.