**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**

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| **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.