**Activity 3 answers**

Describe the potential danger in the scenarios below and the steps the organisation could take to prevent them.

Example answers:

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| **Scenario 1:**  A machinist, tired from a long shift, forgets to turn off a large piece of equipment. | **Scenario 2:** A design engineer reaches from their chair for a drink and accidentally tips it over. | **Scenario 3:**  An engineer turns around from a computer numerical control (CNC) and collides with another employee. | **Scenario 4:**  A computer-aided design (CAD) has been created with the wrong scale for a drawing of a new part. |
| **Potential danger from human error** | | | |
| * Another person may accidentally activate it when passing by * It may malfunction when left unattended * Left running, it may overheat overnight | * Electrical sparks / equipment failure * Loss of data * Loss of productivity * Note that danger includes not just safety but also any threat to operations, reputation or well-being. | * Employee knocked into another piece of equipment and hurt * Employee may drop something important * Either employee may receive physical injury * Loss of productivity | * Material wasted in creating part * Time wasted re-creating part * Part may be sent to customer, causing a malfunction * Reputation damage |
| **Preventative action** | | | |
| * Training on turning off equipment * Automatic shut-down timers * End of shift checks | * Training on fluids near equipment * Limitations on types of cups * Social drinking areas away from desks | * Workplace design – safe areas for working * Training for staff on moving around the workplace | * Training on software * Quality assurance checks at all stages |