

## Electrical safety in building and construction:

### Building and construction: Industrial Technology

In this activity you will learn about the potential hazards involving electricity in the work environment and suitable risk management strategies.

This material addresses aspects of the following syllabus outcomes:



- 4.1.1 A student identifies and applies fundamental OH&S principles when working with materials tools and machines.
- 5.1.1 A student identifies, assesses and manages the risks and OH&S issues associated with the use of a range of materials, hand tools, machine tools and processes.

Extract from: Years 7–10 Industrial Technology Syllabus © Board of Studies NSW 2003.

### Dealing with potential electrical hazards in the work environment

#### Activity

Read the following points and complete the questions.

When using electrical equipment you must ensure that it is correctly earthed or double insulated.	
All electrical distribution switches and controls should be clearly marked to indicate the machinery or equipment that they serve.	
Flammable material should not be stored or placed in proximity to electrical equipment.	
When using ladders near overhead electrical power, one should ensure that neither metal ladders nor wire-reinforced wooden ladders, are used.	
Extension cords should only be used for temporary service and should be maintained in good condition. They should be routinely inspected for frayed, torn or split cords and damaged plugs or connectors. All damaged cords must be repaired or replaced immediately.	
Avoid using electrical tools and equipment in or around damp or wet areas.	
Defective power tools and electrical equipment must be immediately reported to your teacher.	
Never replace a blown fuse with a larger capacity fuse.	

1. All electrical distribution \_\_\_\_\_ and controls should be clearly \_\_\_\_\_ to indicate the machinery or equipment that they serve.
2. \_\_\_\_\_ material should not be stored or placed in proximity to electrical equipment.
3. Metal ladders, or wire-reinforced wooden ladders, should \_\_\_\_ be used in \_\_\_\_\_ to energized electrical equipment.
4. All electrical tools and equipment must be grounded or \_\_\_\_\_ insulated.
5. Extension cords should only be used for \_\_\_\_\_ service and should be maintained in good condition. They should be routinely \_\_\_\_\_ for frayed, torn or split cords and damaged plugs or connectors. All damaged cords must be \_\_\_\_\_ or \_\_\_\_\_ immediately.
6. Avoid using electrical tools and equipment in or around \_\_\_\_\_ or \_\_\_\_\_ areas.
7. Defective electrical equipment must be immediately \_\_\_\_\_ to your teacher.
8. Never replace a blown fuse with a \_\_\_\_\_ capacity fuse.