Contents

9 Health and safety

A

The average person finds it difficult to assess **risks**. For this reason, work practices need to be **regulated**. Examples of **dangerous** activities are:

- welding or grinding without **goggles**
- working on a construction site work without a **hard hat**
- working in **noisy** factories, cabs, on airport tarmacs and with o… …inery without ear **protection**
- working in chemical areas without **protective** clothing
- **smoking** near hazardous **substances**

Without regulation some employees will take risks.
Health and safety is a part of employment (labour) law. It c… …neral matters such as:

- **occupational health**
- **accident** prevention regulations
- special regulations for hazardous occupation… …as m…g and bu…ing
- provisions for risks such as **poisons**, **dangerous** …, **dust**, **noise**, **vibration**, and **radiation**
- the full range of dangers arising from …d … …trial proc…s, for example the widespread use of chemicals

B

The key concerns for health and sa… …to assess the *risks and hazards* by identifying and quantifying the *effects* so that appropriat… …*ive measures* can be taken.

Risks and hazards

combustion • contamina… • dra… • dust… explosion
flammable • fr…tion • fu… …nigation • gas
harmful • sho… …raying • toxic • va…o…

Effects

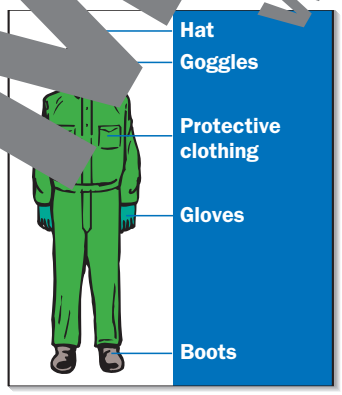
adverse effec… • birth defect • burn • cancer • dizziness
drowsiness … …age • im…ir fertility • irreversible effect • vomiting

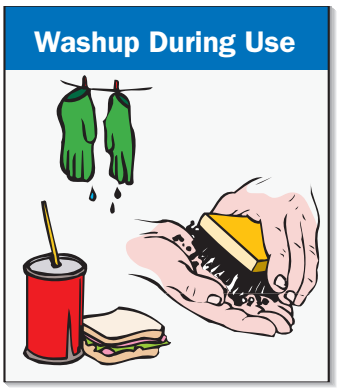
Protective …ures

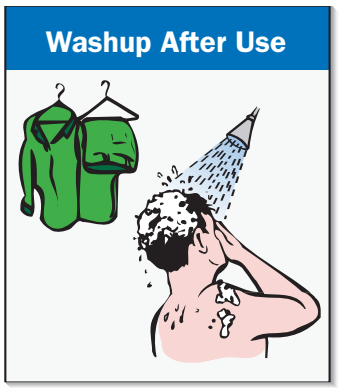
avoid contac… • dispose o… • dry • handle • keep
prec…tionary • …ect • re…cle • rinse • seal
tightly … …well-ventila…ed

C

…follo… …alth and safety notices show some protective measures that can be taken:







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17 Electronics 1

A

Electronics is a branch of engineering and physics. It deals with the **emission**, behaviour, and effects of **electrons** for the **generation**, **transmission**, **reception**, and [illegible] of information. This information can be **audio signals** in a radio, **images** (**video signals**) on a television screen, or numbers and other data in a computer. **Electronic systems** are in[illegible]tal in communication, **entertainment**, and **control** systems.

Electronic circuits consist of interconnections of electr[illegible]ponents, at the heart of which are **semiconductors**. **Transistors**, which are made of **silic[illegible]anium**, are made from semiconductors. Commercial products range fr[illegible]**ellular radio[illegible]e systems** and video cassette recorders to high-performance **supercompute[illegible]** sophisticated **weapons systems**. In industry, electronic devices have led to dramatic improve[illegible] productivity and quality. For example, **computer-aided design** tools facilitate the design of c[illegible]ex parts[illegible]ch as aircraft wings, or intricate structures, such as **integrate[illegible]**

B

The development of microelectronics has had a [illegible]on the electronics industry. *Electronic components* are expected to deli[illegible]ver higher performance, while electronic circuits continue to benefit from miniaturizatio[illegible]

Function of electronic circuits

amplification • demodulation • [illegible]ctronic processing • [illegible]eneration
information extraction • modu[illegible] • radio wave • [illegible]covery (of audio signal)

Electronic components

absorb • active • batt[illegible] • [illegible]pac[illegible]r • diod[illegible] • energy • generator • inductor
passive • resistor • tra[illegible]r • [illegible]ansistor • vacuum tube (AmE) • valve (BrE)

Impacts

device size • dig[illegible] [illegible]fi[illegible]ty • high speed • increased reliability
manufacturing c[illegible]st • stor[illegible] capacity • storage system • ultrahigh image definition

C

One way of incre[illegible]g you[illegible]ocabulary is to learn the associated words from a key word. Look at the [illegible]l table b[illegible], which s[illegible]ws words related to the key words presented above:

Noun	Verb	Adjective
activa[illegible]	[illegible]ctivate	active
[illegible]fication	amplify	amplified
[illegible]is[illegible]	emit	emitted
en[illegible]ainme[illegible]	entertain	entertaining
[illegible]	extract	extracted
genera[illegible]	generate	generative
[illegible]ation	integrate	integrated/integrative
recep[illegible]ion	receive	receptive
recovery	recover	recovered
reliability	rely	reliable
storage	store	stored
transmission	transmit	transmittable/transmissible

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