

**NEBOSH International General Certificate
Paper II Workplace hazards and Control
Question and Answers**

1. (a) **Identify FOUR** sources of ignition that may lead to a fire in the workplace. (4)
(b) **Outline** methods of reducing the risk of a fire in the workplace. (8)
(c) **Outline** the measures that should be in place for a successful evacuation of a workplace in the event of a fire. (8)

Answer

- (a) The main sources of ignition which lead to fire such as incorrectly installed electrical equipment; machinery and plant which was badly maintained such as friction caused by inadequate lubrication; chemical reactions that may give off heat; hot work such as welding or cutting; smoking materials which are discarded in an unsafe manner; hot surfaces such as those on cooking or heating appliances; sparks from cold working such as grinding; and static electricity arising from the incorrect transfer of flammable liquids.
- (b) The ways of reducing the risk of a fire starting in a workplace include the control of smoking and smoking materials; good housekeeping to prevent the accumulation of waste paper and other combustible materials; regular lubrication of machinery to prevent sparks; regular inspection of electrical equipment for damage; ensuring that electrical systems are not overloaded and isolating equipment that is not in use; ensuring ventilation outlets on equipment are not obstructed; controlling hot work by permits or by the creation of designated areas; providing proper storage facilities for flammable liquids away from sources of ignition; segregating incompatible chemicals and implementing security procedures to reduce the risk of arson.
- (c) The measures include: the provision of means for detecting the fire and for raising the alarm; an acceptable distance to the nearest available exit; escape routes of sufficient width and fire protected; clear signing of escape routes; the provision of emergency lighting; escape routes kept clear of obstructions with fire doors closed to prevent the spread of smoke; the provision of fire fighting equipment; the appointment and use of fire marshals; procedures for the evacuation of those with a physical impairment (in relation to hearing, sight or mobility); the identification of a safe assembly point and the need to practice the evacuation plan at regular intervals.
2. (a) **Identify FOUR** mechanical hazards associated with the use of a pedestal drill. (4)
(b) **Outline FOUR** control measures to reduce the risk of injury to operators of pedestal drills. (4)

Answer

- (a) Mechanical hazards associated with the use of a pedestal drill include: entanglement of clothes or hair with the drill bit or chuck; stabbing injuries from the end of the drill bit; contact with the drill chuck resulting in abrasions; and ejection of, or impact by, unclamped work pieces, made worse by the fact that the work piece may be spinning at fast speed on the bit. Cutting hazards may also be presented by metal swarf produced by the drilling process.
- (b) Control measures which could reduce the risk of injury to operators include ensuring stop/start controls, emergency stop devices and isolator switches are operative; the fitting of robust and adjustable guarding around the chuck and drill bit; ensuring the regular removal of swarf round the drill bit to prevent build up; the removal of the chuck key before putting the drill into motion; ensuring the operators are trained and competent and are not wearing items of loose clothing and/or jewellery; the provision of personal protective equipment such as eye and face protection and introducing procedures for the regular maintenance of the machine.
3. **Identify** the main hazards associated with demolition work. (8)
- The main hazards associated with this type of work include working at height; falling debris and premature collapse; use of explosives; contact with and noise from equipment and heavy plant; the presence of dust which might possibly include asbestos; the presence of flammable substances or hazardous materials from previous uses of the building; the presence of cellars or vaults affecting the stability of adjoining premises; the possible presence of services such as electricity, gas and water; biological hazards arising from the presence of vermin and stagnant water; the presence of sharps such as nails and glass and hazards arising during manual handling operations.
4. A recent increase in work-related ill-health has been noticed amongst workers who use a solvent for which a workplace exposure limit (WEL) has been set.

- a. Explain the meaning of the term 'workplace exposure limit'. (2)

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Michael Hoelscher



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web in order to quantify the heat transfer q that is associated with changing the temperature of a substance the mass m and specific heat c of that substance must be multiplied by

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web use this calculator to determine the heat transferred to or from a substance $q = c\Delta t$ in joules j kilojoules kj british thermal units btu iso calories cal or kilocalories kcal

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conduction also known as thermal conduction is the transfer of internal energy within a material the energy is transferred by collision of molecules atoms and electrons inside the material the heat flow will occur in solid liquid and plasma phases and the energy will always flow from hot to cold joseph see more

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web if the reaction releases heat $q_{rxn} > 0$ then heat is absorbed by the calorimeter $q_{calorimeter} > 0$ and its temperature increases conversely if the reaction absorbs heat

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