WHAT TYPE OF ART KILNS SHOULD SCHOOLS USE?
Kilns are high temperature ovens used to fire clay and ceramic items. Most kilns in schools are electric powered. Some schools may have a gas kiln or use temporary wood-fired or sawdust kilns. Kerosene and oil drip kilns are not to be used in schools.

HEALTH AND SAFETY ISSUES ASSOCIATED WITH KILNS?
- Ceramic fibre material or fire bricks are usually used to insulate electric kilns. These materials can in loose form be of a size and shape fine enough to be inhaled. If inhaled, these materials could lodge in the lungs causing respiratory problems.
- Kiln emissions include numerous corrosive and hazardous substances. Both insulation material and kiln emissions can produce adverse health responses in people depending on the level of exposure and individual susceptibility.

HOW CAN YOU PREVENT CONTACT WITH THE HAZARDS?
- Avoid contact with surfaces of the insulating materials as this can cause release of fibres
- Ensure extraction system is operating before, during and after firing to prevent inhalation of kiln emissions

NOTE: Corrosion to metal fittings outside a kiln enclosure may indicate an ineffective ventilation system.

WHAT CONTROLS SHOULD BE USED?
Students cannot operate, load, unload or clean school electric/gas kilns.
Students may construct, operate, load and unload simple kilns where relevant learning outcomes apply to a particular course. In this instance, the student/s must be under the direct supervision of the teacher/leader at all times.

Checklist for Kiln Operation
- have you read HS 10-38 in the Department Of Education Manual & signed your school register as a record?
- is the ventilation working adequately in the kiln enclosure? (refer to HS 10-38 section 7.7)
- do you have the appropriate personal protective equipment? (refer to HS 10-38 section 7.30 –7.39)
- do you fire the kiln out-of-school hours where possible?
- after firing, do you leave the extraction fan on, open the kiln door and allow the gas emissions to disperse before unloading?
- is the kiln area free from obstructions and able to be easily accessed?
- are personal hygiene procedures followed after the use of the kiln? (refer to HS 10-38 section 7.40 –7.41)
- is the kiln inspected at regular intervals and maintained in good order? (refer to HS 10-38 section 7.22 –7.27)

Any concerns regarding the condition/maintenance of your kiln/s should be referred to Facilities Services through your Principal.

FOR MORE INFORMATION
Department of Education Manual: HS10 Core Module (Risk Management); HS10 – 38 Kilns; HS10 – 37 Ceramics; HS10 – 46 Hazardous Art Substances
Education Queensland – Preferred Supplier Agreement ‘PSA-053 Kilns, Pottery, Electric’ for the purchase of kilns.
Creating Healthier Workplaces Website: http://www.education.qld.gov.au/health/
For more information contact your Occupational Health & Safety Advisor through your District Office. Art Kiln Information Package for Schools (CD Version).