

**Table 3: Example list of high risk hazards that may occur in laboratories.
(Based on NZS/AS 2243.1 -2005)**

High risk hazards which could be encountered include the following:

- Operating apparatus capable of inflicting serious injury.
- Handling venomous or dangerous reptiles, insects, arthropods or fish, or mammals. Working with, or near, toxic or corrosive substances and/or infectious agents where there is a significant risk of exposure to the substance, taking into account the volume used.
- Using apparatus that could result in explosion, implosion, or the release of high energy fragments or significant amounts of toxic or environmentally damaging hazardous material.
- Working with exposed energized electrical or electronic systems with nominal voltages exceeding 50 V AC or 120 V ripple-free DC. NOTE: These limits are for dry, indoor conditions and a more conservative approach should be taken in other conditions.
- Working with radio nuclides requiring a high level laboratory in accordance with National Radiation Laboratory Code of safe practice for the use of unsealed radioactive materials, NRL C1.
- Working with micro-organisms of Risk Group 3 and higher, or which require the use of containment level 3 facility or higher.
- Other general laboratory processes as relevant