**Criminal law offences**

**Indonesia**

Articles 75-79 DML 24/2007 set out various criminal offences specifically related to disaster management.

**Japan**

Chapter X DCMBA 223/1961 sets out various penal provisions specifically related to disaster management.

**Regulation of geologists and geology**

**Philippines**

Republic Act No. 4209 An Act to regulate the practice of geology in the Philippines and to provide for the licensing and registration of geologists.

**USA**

According to the Division of Professional Affairs of the American Association of Petroleum Geologists, approximately twenty nine states and one territory in the USA have true practice regulation laws, two states have title regulation, four states have statutory definition regulation and nine states have some form of certification (these include some states with registration, statutory definition, or title regulation). Surprisingly, highly volcanic Hawaii has no relevant legislation whilst licensing about fifty other professions and vocations including pest controllers and massage therapists!

By way of illustration of a practice regulation law that also requires registration, in Nebraska the profession of geology is regulated "in the public interest". Under the provisions of the Geologist Regulation Act 1998 it is unlawful for any person to: (1) practice or offer to practice geology in this state; (2) use in connection with his or her name or otherwise assume the title professional geologist; or (3) advertise any title or description tending to convey the impression that he or she is a licensed geologist, unless the person is duly licensed or exempt from licensure under the Geologists Regulation Act. The practice of geology and use of the title geologist is a privilege granted by the state. Geology is given the following wide definition, which it is suggested here, would cover assessments of volcanic hazards.

Geology means the science which includes treatment of the earth and its origin and history, in general; investigation of the earth's constituent rocks, soils, minerals, solids, fluids including underground waters, gases, and other materials; the study of the natural agents, forces, and processes which cause changes in the earth or on its surface; and the application of this knowledge of the earth.

In Alaska, only title regulation is required and people wishing to describe themselves as "professional geologists" can apply for
certification which is based solely upon the registration requirements of the American Institute of Professional Geologists (AIPG). The AIPG sets strict education, experience and sponsorship requirements for Certified Professional Geologists.

Five US states have no certification or licensing program. Colorado does not require the licensing or registration of geologists. Statutes do however require that geologic reports be prepared or authorised by a professional geologist and, in order to represent oneself as a Professional Geologist, statutes define a "Professional Geologist". "Professional geologist" is a person who is a graduate of an institution of higher education which is accredited by a regional or national accrediting agency, with a minimum of thirty semester (forty-five quarter) hours of undergraduate or graduate work in a field of geology and whose post baccalaureate training has been in the field of geology with a specific record of an additional five years of geological experience to include no more than two years of graduate work (Colorado Geological Survey website).

Canada

In Canada, the occupation of geoscientist (which includes geologist, geophysicist, geochemist and other earth scientists) is regulated in all provinces and territories, except in Prince Edward Island and the Yukon. Provincial and territorial associations (which, in some cases, are combined associations of engineers and geoscientists) follow similar requirements for entry into the profession but make decisions independently for licensing those who meet their established standards of qualifications and practice (Canadian Information Centre for International Credentials).