

Boilers and Pressure Vessels

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4. Youth Science Research - Ethics & Safety

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Contact:

National Ethics & Safety Committee

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Boilers and Pressure Vessels

1. A pressure vessel constructed for or used in a project, with a capacity greater than 42.5 litres or operated at a pressure greater than 103 kilopascals, must be inspected and certified for use by an inspector appointed under the Boilers and Pressure Vessels Act/Regulations. A certificate of inspection must be available at the project display.
2. Any finalist-constructed pressure vessel, regardless of size or pressure, should be inspected according to provincial regulation prior to use by an engineer with certification in boilers and pressure vessels to ensure the safety of the young scientist. Evidence of the inspection should be available at the display.
3. Any pressure vessel must have a safety valve, rupture disc or similar device to limit internal pressure below the burst pressure of the vessel. The safety valve shall relieve to a safe or remote area.
4. Boilers and Pressure Vessels are the responsibility of the provinces and territories. Therefore, each student will have to check with his provincial statutes and regulating body. There is one place in federal legislation that deals with boilers and pressure vessels: Canada Occupational Health and Safety Regulations (SOR/86-304) [2]

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Links

[1] https://youthscience.ca/email/node/8964/field_contact_email

[2] <http://laws-lois.justice.gc.ca/eng/regulations/sor-86-304/page-14.html#h-46>