

CSA B149.3-20 Code for the field approval of fuel-burning appliances and equipment

The CSA B149.3 Code for the field approval of fuel burning appliances and equipment applies to the approval of commercial and industrial equipment and appliances, which fall outside the scope of a nationally recognized standard, as well as to the upgrades or alterations to certified equipment.

Impacts of this new code include updating training programs for Class A Gas Fitters across BC. Although this will be a significant impact to training providers, it aligns with the new harmonized Class A Gas Fitter Red Seal trade program estimated to be coming into effect April 1, 2022. Training providers will be required to submit revisions to their training programs, aligning with the new Class A Gas Fitter syllabus and new code editions, for recognition prior to delivery of the new Red Seal Class A Gas Fitter apprenticeship program.

Technical Safety BC plans to recommend adopting the 2020 edition of the CSA B149.3, including informative Annex J.

Section or clause	Revisions	Impacts
General	Removal of bold and italicized text and symbols indicating revisions to improve accessibility by allowing for digital readers.	All code users: The codes are now accessible on electronic reading devices.
General	New title to accurately reflect application of the code. Previously <i>Code for the field approval of fuel-related components on appliances and equipment</i>	Training providers: Any references to the code including website references, training material, and examinations will need to be changed.
Scope	Editorial changes to the scope of the code clarify code application.	All code users: Revisions more accurately reflect the scope of the code.
Definitions	New and revised definitions to support newly developed content on risk-based management systems, portable equipment, stationary engines and turbines, and flare pilot systems as well as aligning with updates to B149.1.	Training providers, Gas Fitters and other gas certificate holders: Restructuring of requirements for pressure regulators, pilot supply, manual valves, and pilot burners will have similar impact to the revisions to the B149.1 code, in that training programs will require appropriate updating.

Section or clause	Revisions	Impacts
Clause 17 (new)	New clause 17 for “Generators, compressor/pressure boosters, engines, and turbines” as requirements were relocated from B149.1 to the B149.3 and developed further.	Oil and gas industry and owners of generators and turbines: Generators, compressor/pressure boosters, engines, and turbines now require a permit or equipment approval upon relocation. Allowances for equipment fitting the definition of “portable” will only be required to be “approved” once, then standard permitting will apply as prior to adoption of the new code.
Clause 18 (new)	New clause 18 for “Flare pilots,” removed from annex E and relocated into the body of the code.	Installing contractors: Minimum construction requirements for flare pilots are now a mandatory requirement of the code. Clarifies scope of the B149.3 in relation to flares and flare pilots and provides consistency in permitting and approval requirements for flares.
Clause 19 (new)	New clause 19 for “Appliances in complex and integrated facilities.” This, along with guidance provided in Annex L, provides a method for approval of equipment under an approved risk assessment and mitigation program.	Owners and workers in complex and integrated facilities: Provides an alternate method and structured process for assessing risk and risk mitigation for specific complex facilities, under a program approved by Technical Safety BC.
Clause 20 (new)	New clause 20 “Additional requirements for portable appliances and equipment” provides specific requirements for appliances and equipment that are self-contained and can be relocated from site to site.	Oil and gas industry, and other owners of portable equipment: Introduces a means for approval of portable equipment and the relocation process, resulting in a higher level of safety. Previously, it was generally interpreted that this code was restricted to stationary, built-on-site equipment.
Annex J (new) <i>Recommended adoption</i>	New informative annex for mobile outdoor food service units reconciles code requirements from those found in B149.1, B149.2, and B149.5 to one location, to be adopted as normative.	Mobile food truck owners and contractors working on food trucks: Consolidates code requirements from multiple code sources to one location for easier access by the user. This also promotes the national inspection body accreditation program through standards council of Canada by allowing accredited agencies to provide the approval service to food truck owners.