



When renovating or modifying an existing elevator, work must be done to totally or partially refurbish it. This work is involved when any change is made to the material, parts, components and sub-components of an elevator.

Under the *Engineers Act* (sec. 2), elevators fall within the field of engineering. The Act establishes the field of practice of an engineer as follows:

par. c): works of an electrical, mechanical, hydraulic [...], electronic, [...] character [...];

par. e): the foundations, framework, electrical or mechanical systems of buildings, the cost of which exceeds \$100,000, and of public buildings within the meaning of the Public Buildings Safety Act;

The Act also specifies (sec. 3) the acts that are reserved for engineers:

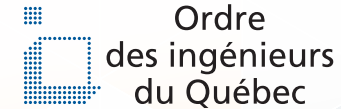
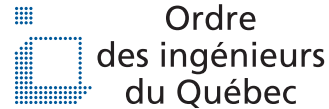
par. a): the giving of consultations and opinions;

par. b): the making of measurements, of layouts, the preparation of reports, computations, designs, drawings, plans and specifications;

par. c): the inspection or supervision of the work.

An engineer's services must be sought to perform a reserved act that falls within a reserved field. In other words, an engineer's services are required to renovate an existing elevator because this type of project involves acts of engineering.

These requirements also apply to new elevators and other types of lifting devices: lifting devices for disabled persons, hoists, escalators, moving walkways, etc.



Plans and specifications that are **signed and sealed by an engineer** are **required** when installing a new elevator or renovating an existing one.

For questions about the *Engineers Act*, please contact the Unlawful Practice Supervision Division of the OIQ's Legal Affairs Department.

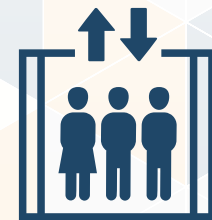
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Safe Elevators
A public
protection priority



PROJECT PHASES	STEPS	DELIVERABLES	
PLANNING	Pre-project	Analysis of the feasibility of the client's request	
	Feasibility study	Design program	
		Existing conditions surveys and engineering studies	Structural calculations (elevator shafts, anchor systems)
			Installation work and plans, soil behaviour and elevator shaft verticality studies
			Calculations of the weight of the finishing elements and analysis of the car strength
Elevator performance specifications			
Project definition	Construction program		
EXECUTION	Plans and specifications	Terms of reference	
		Plans and specifications (components, installation, integration)	
		Approvals of the shop drawings	
	Call for tenders	Signing of the contract	
	Construction	Plans and specifications issued for construction	
		Manufacturing drawings of the components	
		Revisions of the comprehensive plan issued for construction	
		Site instructions	
		Compliance documents	
		Commissioning reports	
		Preventive and planned maintenance programs	
	Inspection reports for provisional acceptance		
	Delivery	Contractual documents	
		Final release to the client	
		Lists of deficiencies	
Compliance documents with the CSST and the RBQ			
Final inspection			
Final statement of compliance			
OPERATION	OPERATION	Operations and maintenance reports	

■ Engineering services required