

Power Engineer (4th Class)
Program Structure - Nova Scotia Apprenticeship Program

The courses listed below are required technical training in the Nova Scotia Power Engineer (Fourth Class) Apprenticeship Program.

Nova Scotia Course No.	Nova Scotia Course Name	Covers Content of SOPEEC Recommended Study Units	Prepares for SOPEEC Examination Papers
PEFC-1813 (course 1)	Math, Applied Mechanics, Thermodynamics and Legislation	Mathematics	A
		Elementary Mechanics and Dynamics	
		Elementary Chemistry and Thermodynamics	
		Industrial Legislation, Codes and Standards	
PEFC-1814 (course 2)	Safety, Environmental Control, and Welding	Power Plant / Heating Plant Safety	
		Environment	
		Material and Welding	
PEFC-1815 (course 3)	Fluid Handling, Electro-Technology and Instrumentation	Piping and Valves	
		Electricity	
		Energy Plant Instrumentation and Controls	
PEFC-1816 (course 4)	Communications, Boiler Design and Boiler Systems	Plant Communication	
		Boilers	
		Boiler Systems	
PEFC-1817 (course 5)	Lubrication, Pumps, and Boiler Safety Devices	Lubrication	B
		Pumps and Compressors	
		Boiler Safety Devices	
PEFC-1818 (course 6)	Plant Operation, Plant Maintenance and Water Treatment	Power Plant/Heater Plant Maintenance	
		Water Treatment	
PEFC-1819 (course 7)	Prime Movers, Auxiliary Systems and Refrigeration	Primer Movers and Engines	
		Auxiliary Building Systems	
		Refrigeration	
PEFC-1820 (course 8)	HVAC Fundamentals, Environmental Systems and Plant Configurations	Heating Ventilation and Air Conditioning	
		Heating and Cooling Systems	
		Types of Plants	