



**POWER ENGINEER 3<sup>rd</sup> CLASS**

**2015**

pg. 1 for Program Structure



**Power Engineer (3<sup>rd</sup> Class)**  
**Program Structure - Nova Scotia Apprenticeship Program**

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

Nova Scotia Course No.	Nova Scotia Course Name	Covers Content of SOPEEC Recommended Study Units	Prepares for SOPEEC Examination Papers
PETC-1821	Applied Math and Mechanics	Applied Mathematics	A1
		Applied Mechanics	
PETC-1822	Thermodynamics and Applied Science	Thermodynamics	A1
		Applied Science	
PETC-1823	Codes, Safety, Combustion and Piping	Industrial Legislation and Codes	A2
		Code Calculations, ASME Section 1	
		Industrial Safety and Fire Protection	
		Fuels and Combustion	
		Piping	
PETC-1824	Electricity and Instrumentation	Electrotechnology	A2
		Electrical Calculations	
		Control Instrumentation	
PETC-1825	Boiler Design, Fittings and Auxiliary Equipment	Boilers ( <i>covers boiler design, construction, fittings and auxiliary equipment</i> )	B1
PETC-1826	Boiler Operation, Water Treatment, Pumps and Welding	Boilers ( <i>covers boiler operation</i> )	
		Boiler Control Systems	
		Feedwater Treatment	
		Pumps	
		Welding Procedures and Inspection	
		Pressure Vessels	
PETC-1827	Prime Movers	Prime Movers	B2
		Cogeneration	
PETC-1828	Air Compression, Refrigeration and Auxiliary Systems	Compressors	
		Refrigeration	
		Plant Maintenance and Administration	
		Special Industrial Equipment	
		Wastewater Treatment	