

## GEOLOGICAL ENGINEERING ACADEMIC ASSESSMENT CHECKLIST

The syllabus checklist below is based on the approved discipline topics used by APEGA's Executive Committee of the Board of Examiners (BOE) to either confirm or meet academic shortfalls or deficiencies. Please use in conjunction with the course descriptions provided here: <https://www.apega.ca/apply/exams/technical/courses/>.

*This form is provided for assessment purposes only (06.02.2020).*

2018		✓
<b>Preliminary Exams</b>	20-Prelim-1 Calculus	
	20-Prelim-2 Computing	
	20-Prelim-3 Physics	
	20-Prelim-4 Chemistry	
<b>Basic Studies &amp; Compulsory Exams</b>	04-BS-1 Mathematics	
	04-BS-2 Probability and Statistics	
	04-BS-3 Statics and Dynamics	
	04-BS-6 Mechanics of Materials	
	04-BS-7 Mechanics of Fluids	
	04-BS-11 Properties of Materials	
	04-BS-14 Geology	
<b>Optional Exams (Requires 1)</b>	04-BS-5 Advanced Mathematics	
	04-BS-10 Engineering Thermodynamics	
	04-BS-12 Organic Chemistry	
	04-BS-15 Engineering Graphics	
<b>Geological Group A (Require 7)</b>	18-Geol-A1 Mineralogy and Petrology	
	18-Geol-A2 Hydrogeology	
	18-Geol-A3 Sedimentation and Stratigraphy	
	18-Geol-A4 Structural Geology	
	18-Geol-A5 Rock Mechanics	
	18-Geol-A6 Soil Mechanics	
	18-Geol-A7 Applied Geophysics	
<b>Geological Group B (Require 3)</b>	18-Geol-B1 Contaminant Hydrogeology	
	18-Geol-B2 Terrain Analysis	
	18-Geol-B3 Site Investigation	
	18-Geol-B4 Geomorphology and Pleistocene Geology	
	18-Geol-B5 Environmental Geology	
	18-Geol-B6 Resource Geology Select one from: 18-Geol-B6-1 Petroleum Deposits 18-Geol-B6-2 Coal Deposits 18-Geol-B6-3 Metallic and Industrial Mineral Deposits	
	18-Geol-B7 Petroleum Development	

	18-Geol-B8 Resource Economics & Valuation	
	18-Geol-B9 Exploration & Mining Geology	
	18-Geol-B10 Geophysical Exploration Methods Select one from: 18-Geol-B10-1 Gravity and Magnetic Fields 18-Geol-B10-2 Electrical Methods 18-Geol-B10-3 Exploration Seismology	
<b>Complementary Studies</b>	98-CS-1 Engineering Economics	
	98-CS-2 Engineering in Society - Health, Safety, and the Environment	
	98-CS-3 Management Concepts for Engineers	