

## METALLURGICAL 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).*

2010		✓
<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-10 Engineering Thermodynamics	
	04-BS-11 Properties of Materials	
<b>Optional Exams (Requires 1)</b>	04-BS-4 Electric Circuits and Power	
	04-BS-5 Advanced Mathematics	
	04-BS-14 Geology	
	04-BS-15 Engineering Graphics	
<b>Metallurgical Group A (Requires 7)</b>	10-Met-A1 Metallurgical Thermodynamics	
	10-Met-A2 Metallurgical Rate Phenomena (Suggested Prerequisite: A1)	
	10-Met-A3 Metal Extraction Processes	
	10-Met-A4 Structure of Materials	
	10-Met-A5 Mechanical Behaviour and Fracture of Materials (Suggested Prerequisite: A4)	
	10-Met-A6 Phase Transformation and Thermal Treatment of Metals and Alloys (Suggested Prerequisite: A4)	
	10-Met-A7 Corrosion and Oxidation (Suggested Prerequisite: A1)	

<b>Metallurgical Group B (Require 3)</b>	10-Met-B1	Mineral Processing	
	10-Met-B2	Hydrometallurgy and Electrometallurgy	
	10-Met-B3	Ironmaking and Steelmaking	
	10-Met-B4	Non-Ferrous Extractive Metallurgy	
	10-Met-B5	Metal Fabrication	
	10-Met-B6	Physical Metallurgy of Iron and Steel	
	10-Met-B7	Physical Metallurgy of Non-Ferrous Metals and Alloys	
	10-Met-B8	Ceramic Materials	
	10-Met-B9	Structure and Properties of Polymers	
	10-Met-B10	Advanced Electronic Materials	
<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	