

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2004 Edition

GEOLOGICAL ENGINEERING

INTRODUCTION

A full set of Geological Engineering examinations consists of the following, three-hour examination papers and an engineering report. Candidates will be assigned examinations based on an assessment of their academic background. Examinations from discipline syllabi other than those specific to the candidates' discipline may be assigned at the discretion of PEO's Academic Requirement Committee.

BASIC STUDIES EXAMINATIONS

04-BS-1	Mathematics
04-BS-2	Probability and Statistics
04-BS-3	Statics and Dynamics
04-BS-5	Advanced Mathematics
04-BS-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-12	Organic Chemistry
04-BS-14	Geology
04-BS-15	Engineering Graphics and Design Process

PROFESSIONAL EXAMS – SPECIFIC TO GEOLOGICAL ENGINEERING

GROUP A

04-Geol-A1	Mineralogy and Petrology
04-Geol-A2	Hydrogeology
04-Geol-A3	Sedimentation and Stratigraphy
04-Geol-A4	Structural Geology
04-Geol-A5	Rock Mechanics
04-Geol-A6	Soil Mechanics
04-Geol-A7	Applied Geophysics

GROUP B

04-Geol-B1	Contaminant Hydrogeology
04-Geol-B2	Terrain Analysis
04-Geol-B3	Site Investigation
04-Geol-B4	Geomorphology and Pleistocene Geology
04-Geol-B5	Environmental Geology
04-Geol-B6	Resource Geology – Select <u>ONE</u> from
	04-Geol-B6-1 Petroleum Deposits
	04-Geol-B6-2 Coal Deposits
	04-Geol-B6-3 Metallic and Industrial Mineral Deposits
04-Geol-B7	Petroleum Development
04-Geol-B8	Resource Economics & Valuation
04-Geol-B9	Exploration & Mining Geology
04-Geol-B10	Geophysical Exploration Methods – Select <u>ONE</u> from
	04-Geol-B10-1 Gravity and Magnetic Fields
	04-Geol-B10-2 Electrical Methods
	04-Geol-B10-3 Exploration Seismology

COMPLEMENTARY STUDIES

98-CS-1	Engineering Economics
98-CS-2	Engineering in Society – Health, Safety, and the Environment
98-CS-3	Management Concepts for Engineers

3.2	Engineering Report
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