

Senior Professional and Technical Examinations for Engineers—Exam Subjects for Candidates Granted a Partial Exemption (Table C)

No.	Exam Category	Exam Subjects
1.	Civil Engineer Exam	<ol style="list-style-type: none"> 1. Structural design (including design of reinforced concrete and steel structural design) 2. Construction method (including civil engineering, architecture construction method and engineering material)
2.	Hydraulic Engineer Exam	<ol style="list-style-type: none"> 1. Geotechnics (including soil mechanics, foundation engineering and engineering geology) 2. Hydraulic engineering (including coastal engineering, flood control and drainage engineering)
3.	Structural Engineer Exam	<ol style="list-style-type: none"> 1. Design of reinforced concrete and design of pre-stressed concrete 2. Structural dynamics analysis and aseismatic design
4.	Geotechnical Engineer Exam	<ol style="list-style-type: none"> 1. Foundation engineering and design (including excavation engineering and related foundation structure design) 2. Engineering geology and site investigation
5.	Survey Engineer Exam	<ol style="list-style-type: none"> 1. Least squares adjustment 2. Geodetic survey
6.	Environmental Engineer Exam	<ol style="list-style-type: none"> 1. Water supply engineering and sewage works 2. Air pollution and noise engineering
7.	Urban Planning Engineer Exam	<ol style="list-style-type: none"> 1. Land use and public facility projects 2. Project analysis approach
8.	Mechanical Engineer Exam	<ol style="list-style-type: none"> 1. Thermodynamics and heat transfer (including heat engine) 2. Fluid mechanics and fluid machinery
9.	Refrigeration And Air-Conditioning Engineer Exam	<ol style="list-style-type: none"> 1. Refrigerating engineering and design 2. Air conditioning engineering and design
10.	Naval Architecture Engineer Exam	<ol style="list-style-type: none"> 1. Shipbuilding design (including shipbuilding principles) 2. Theory of ship structure
11.	Electrical Engineer Exam	<ol style="list-style-type: none"> 1. Electric machinery 2. Industrial power distribution

No.	Exam Category	Exam Subjects
12.	Electric Engineer Exam	1. Electronic computer theory 2. Communication system
13.	Information Engineer Exam	1. Mathematics for computer science 2. Systematic analysis and information security
14.	Aeronautical Engineer Exam	1. Introduction to aircraft structures 2. Flight mechanics (including automatic control and airplane performance)
15.	Chemical Engineer Exam	1. Transport phenomena and unit operation 2. Industrial chemistry
16.	Industrial Engineer Exam	1. Production management 2. Facility planning and automated manufacturing system
17.	Industrial Safety Engineer Exam	1. Industrial safety engineering 2. Industrial safety management (including applied statistics)
18.	Occupational Hygienist Exam	1. Hazard identification and introduction to occupational diseases 2. Workplace environmental control engineering
19.	Textile Engineer Exam	1. Textile goods inspections 2. Textile engineering (including weaving, knitting, and felt)
20.	Food Technologist Exam	1. Food sanitation/safety regulations 2. Food plant management
21.	Metallurgical Engineer Exam	1. Metallurgy and thermodynamics 2. Metalworking (including casting, forging, soldering, and heat treatment)
22.	Agronomist Exam	1. Crop science 2. Introduction to crop production
23.	Horticultural Technologist Exam	1. Postharvest handling of horticultural products (including horticultural crop processing) 2. Horticultural crop breeding and reproduction
24.	Forestry Technologist Exam	1. Silviculture (including forest protection) 2. Forest regulation (including inductive statistics)
25.	Livestock Technologist Exam	1. Hygiene of livestock and poultry 2. Utilization of livestock products (including meat processing and dairy product processing)
26.	Fishing Technologist Exam	1. Introduction to fisheries 2. Study on fishing gear (including fishery instruments)

No.	Exam Category	Exam Subjects
27.	Aquacultural Technologist Exam	1. Introduction to fisheries 2. Aquaculture (including aquacultural engineering)
28.	Soil And Water Conservation Engineer Exam	1. Hill slope hydrology 2. Soil and water conservation planning (including regulations on water and soil conservation)
29.	Mining Engineer Exam	1. Mine ground design and maintenance 2. Mining engineering (including mine safety)
30.	Applied Geological Engineer Exam	1. Geotechnics (including soil mechanics and rock mechanics) 2. Engineering geology (including hydrogeology)
31.	Mining Safety Engineer Exam	1. Mine safety and hygiene regulations 2. Mine ventilation and drainage
32.	Transportation Engineer Exam	1. Traffic engineering and design 2. Transportation planning

Note: All exam subjects are tested in essay format.