

NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Agricultural**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Agricultural**

	*Institution	National	Carnegie Comparator
Examinees Taking	3	25	16
Examinees Passing	1	16	10
Examinees Passing %	33	64	63

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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Subject

Engineering Principles and Professional Practices: Circuits; Controls; and Sensors	4	50	61	1.1	66
Engineering Principles and Professional Practices: Codes; Graphics; and Safety	2	33	70	0.7	78
Engineering Principles and Professional Practices: Economics and Statistics	4	67	69	0.8	70
Engineering Principles and Professional Practices: Physical Operations	6	67	65	1.5	65
Facility Engineering: Plant; Animal; and Commodity Environments and Structures: Environment	6	50	57	1.3	57
Facility Engineering: Plant; Animal; and Commodity Environments and Structures: Structures	6	50	49	1.4	54
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Agricultural Machines	5	67	68	1.3	73
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Machine System Design	6	61	67	1.3	67
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Power Systems	4	67	73	1.0	75
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Power Transmission Systems	5	53	57	1.1	60
Natural Resource Engineering: Soil; Water; and Plant Systems: Applications	9	33	66	2.0	68
Natural Resource Engineering: Soil; Water; and Plant Systems: Fundamentals	6	78	73	1.4	77
Natural Resource Engineering: Soil; Water; and Plant Systems: Interactions among Natural Resources	9	56	60	1.4	61
Process Engineering: Food; Feed; Fiber; and Fuel Products: Energy Sources (e.g. Fossil Fuels; Solar; Wind; Biomass; Hydro)	1	0	28	0.5	25
Process Engineering: Food; Feed; Fiber; and Fuel Products: Facilities Layouts; Including Functional and Space Requirements for Processing Facilities (e.g. Animal Products; Plant Products; Grain; Layout; Storage)	1	33	28	0.5	31
Process Engineering: Food; Feed; Fiber; and Fuel Products: Mass Transfer Between Phases (e.g. Drying; Extraction; Leaching; Evaporative Cooling)	3	44	57	1.1	60
Process Engineering: Food; Feed; Fiber; and Fuel Products: Material Properties	3	67	69	0.7	75

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Chemical	PM Exam	PE - Electrical and Computer: Power

	*Institution	National		Carnegie Comparator
Examinees Taking	1	1		1
Examinees Passing	1	1		1
Examinees Passing %	100	100		100
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

Subject

General Power Engineering: Measurement & Instrumentation	6	33	33	0.0	33
General Power Engineering: Special Applications	8	100	100	0.0	100
General Power Engineering: Codes & Standards	10	70	70	0.0	70
Circuit Analysis: Analysis	9	56	56	0.0	56
Circuit Analysis: Devices & Power Electronic Circuits	7	57	57	0.0	57
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	80	80	0.0	80
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	83	83	0.0	83
Transmissions & Distribution: System Analysis	10	60	60	0.0	60
Transmissions & Distribution: Power System Performance	6	67	67	0.0	67
Transmissions & Distribution: Protection	8	88	88	0.0	88

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Civil**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Construction**

	*Institution	National	Carnegie Comparator
Examinees Taking	3	729	178
Examinees Passing	3	265	65
Examinees Passing %	100	36	37

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	75	69	1.4	68
Geotechnical	8	79	48	1.5	49
Structural	8	75	68	1.6	67
Transportation	8	79	57	1.8	55
Water Resources & Environmental	8	75	57	1.8	58

PM Subject

Earthwork Construction & Layout	4	92	64	1.0	66
Estimating Quantities & Costs	7	52	44	1.6	44
Construction Operations & Methods	6	67	59	1.1	59
Scheduling	7	81	78	1.3	78
Material Quality Control & Production	4	42	57	0.9	55
Temporary Structures	5	67	52	1.1	52
Worker - Health & Safety & Environment	3	78	59	0.9	60
Other Topics	4	67	58	1.0	58

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Civil**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Geotechnical**

	*Institution	National	Carnegie	Comparator
Examinees Taking	3	450		86
Examinees Passing	1	142		29
Examinees Passing %	33	32		34

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	71	65	1.5	68
Geotechnical	8	54	58	1.6	62
Structural	8	67	72	1.5	75
Transportation	8	54	56	1.8	56
Water Resources & Environmental	8	71	56	1.8	56

PM Subject

Subsurface Exploration & Sampling	3	78	67	0.8	72
Engineering Properties of Soils & Materials	5	53	64	1.2	70
Soil Mechanics Analysis	5	40	48	1.1	46
Earthquake Engineering	2	67	53	0.7	52
Earth Structures	4	42	58	1.0	61
Shallow Foundations	6	44	50	1.2	52
Earth Retaining Structures	6	56	49	1.3	50
Deep Foundations	4	58	46	1.2	44
Other Topics	5	60	51	1.2	54

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Civil**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Structural**

	*Institution	National	Carnegie Comparator
Examinees Taking	5	600	128
Examinees Passing	4	347	76
Examinees Passing %	80	58	59

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	78	74	1.4	75
Geotechnical	8	60	60	1.5	59
Structural	8	75	88	1.1	87
Transportation	8	68	64	1.8	63
Water Resources & Environmental	8	75	66	1.8	67

PM Subject

Loadings	5	48	37	1.2	36
Analysis	5	84	58	1.3	58
Mechanics of Materials	5	76	65	1.2	65
Materials	5	64	59	1.3	60
Member Design	10	68	57	2.2	58
Design Criteria	5	64	69	1.2	69
Other Topics	5	80	68	1.2	66

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Civil**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Transportation**

	*Institution	National	Carnegie Comparator		
Examinees Taking	25	1,716	480		
Examinees Passing	14	852	275		
Examinees Passing %	56	50	57		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	69	65	1.4	66
Geotechnical	8	45	49	1.5	50
Structural	8	70	66	1.6	68
Transportation	8	69	67	1.7	68
Water Resources & Environmental	8	59	61	1.7	63

PM Subject

Traffic Analysis	9	82	73	1.7	75
Geometric Design	12	69	68	2.1	70
Transportation Planning	3	59	57	0.9	61
Traffic Safety	6	57	50	1.3	54
Other Topics	10	78	72	1.8	75

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 PE - Civil - Water Resources and Environmental
Board Code: Major	71 Civil		

	*Institution	National		Carnegie Comparator	
Examinees Taking	10	1,082		329	
Examinees Passing	6	582		197	
Examinees Passing %	60	54		60	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	63	67	1.4	68
Geotechnical	8	48	50	1.5	51
Structural	8	73	67	1.6	67
Transportation	8	60	61	1.8	62
Water Resources & Environmental	8	74	70	1.7	72

PM Subject

Hydraulics -- Closed Conduit	6	47	55	1.4	54
Hydraulics -- Open Channel	6	50	61	1.3	63
Hydrology	6	68	60	1.5	63
Groundwater and Well Fields	3	70	69	0.8	71
Wastewater Treatment	6	68	53	1.4	55
Water Quality	6	65	60	1.5	62
Water Treatment	6	55	52	1.3	53
Engineering Economics	1	90	79	0.4	82

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Construction**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Construction**

	*Institution	National	Carnegie Comparator
Examinees Taking	1	23	9
Examinees Passing	0	11	3
Examinees Passing %	0	48	33

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	50	70	1.3	69
Geotechnical	8	25	53	1.8	49
Structural	8	88	72	1.3	68
Transportation	8	50	57	2.1	38
Water Resources & Environmental	8	63	61	1.6	67

PM Subject

Earthwork Construction & Layout	4	50	70	1.0	58
Estimating Quantities & Costs	7	71	48	1.5	48
Construction Operations & Methods	6	67	59	1.3	46
Scheduling	7	86	86	1.4	79
Material Quality Control & Production	4	75	67	0.8	64
Temporary Structures	5	60	58	1.3	58
Worker - Health & Safety & Environment	3	67	74	0.9	70
Other Topics	4	25	53	1.0	61

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Electrical**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Control Systems**

	*Institution	National	Carnegie Comparator
Examinees Taking	1	85	28
Examinees Passing	0	57	16
Examinees Passing %	0	67	57

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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Subject

Subject	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Measurement	19	53	65	3.0	64
Signals and Transmission: Signals	9	89	81	1.3	78
Signals and Transmission: Transmission	1	100	89	0.3	93
Final Control Elements: Valves	10	40	71	1.8	70
Final Control Elements: Pressure Relieving Devices	4	0	43	1.3	48
Final Control Elements: Other Final Control Elements	2	50	68	0.7	63
Control Systems Analysis: Documentation	6	83	56	1.2	55
Control Systems Analysis: Theory	5	80	55	1.0	56
Control Systems Analysis: Safety	2	0	39	0.7	32
Control Systems Implementation	16	50	71	2.0	70
Codes & Standards & Regulations	6	50	67	1.1	60

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Electrical	PM Exam	PE - Electrical and Computer: Electrical and Electronics

	*Institution	National		Carnegie Comparator
Examinees Taking	2	123		26
Examinees Passing	1	71		18
Examinees Passing %	50	58		69
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

Subject

General Electrical Engineering Knowledge: Circuit Analysis	19	74	72	3.5	74
General Electrical Engineering Knowledge: Measurement & Instrumentation	7	86	65	1.7	68
General Electrical Engineering Knowledge: Safety & Design Limits	3	50	70	1.0	76
General Electrical Engineering Knowledge: Signal Processing	11	50	56	2.6	63
Digital Systems: Digital Logic	4	88	84	0.7	84
Digital Systems: Digital Components	4	38	54	1.1	56
Electric & Magnetic Field Theory & Applications: Electromagnetic Fields	3	50	55	0.9	54
Electric & Magnetic Field Theory & Applications: Transmission Lines & Guided Waves	4	88	71	1.1	74
Electric & Magnetic Field Theory & Applications: Antennas	1	50	55	0.5	62
Electronics: Electronic Circuit Theory	6	25	59	1.6	64
Electronics: Electronic Components & Circuits	4	75	69	1.0	72
Control System Fundamentals: Block Diagrams	2	75	65	0.7	75
Control System Fundamentals: Frequency Response	2	25	70	0.7	73
Control System Fundamentals: Stability	2	75	78	0.6	83
Communications: Modulation	2	75	46	0.8	44
Communications: Noise & Interference	2	75	53	0.7	54
Communications: Telecommunications	4	63	60	1.1	59

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Electrical**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Electrical and Computer: Power**

	*Institution	National	Carnegie Comparator		
Examinees Taking	5	937	254		
Examinees Passing	2	497	157		
Examinees Passing %	40	53	62		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

General Power Engineering: Measurement & Instrumentation	6	47	56	1.3	58
General Power Engineering: Special Applications	8	60	64	1.7	65
General Power Engineering: Codes & Standards	10	54	53	1.7	56
Circuit Analysis: Analysis	9	62	66	1.9	68
Circuit Analysis: Devices & Power Electronic Circuits	7	63	56	1.6	60
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	64	71	1.7	72
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	67	63	1.4	65
Transmissions & Distribution: System Analysis	10	56	61	1.8	62
Transmissions & Distribution: Power System Performance	6	47	60	1.2	62
Transmissions & Distribution: Protection	8	75	65	1.6	68

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Materials	PM Exam	PE - Metallurgical and Materials

	*Institution	National		Carnegie Comparator
Examinees Taking	1	10		3
Examinees Passing	0	6		1
Examinees Passing %	0	60		33
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

Subject

Foundation Topics: Statistics	4	25	48	1.0	33
Foundation Topics: Physical-Engineering Sciences	9	11	51	1.8	33
Foundation Topics: Mechanics of Materials	4	25	60	0.8	42
Foundation Topics: Process Fundamentals	9	33	42	2.0	52
Structure & Properties: Structure-Phase-Transformations	8	38	58	1.9	38
Structure & Properties: Mechanical Properties of Metals & Materials	8	38	45	0.8	46
Structure & Properties: Applications & Specifications of Metal & Materials Selection	8	75	80	1.1	71
Processing: Heat Treatments	6	50	73	0.7	67
Processing: Surface Modification	4	75	85	0.7	92
Processing: Forming & Fabrication	7	71	67	1.3	57
Performance: A Material Testing	6	33	55	1.1	56
Performance: Material Degradation	6	33	50	1.2	44
Performance: Waste Process Control & Environmental Impact	1	100	30	0.5	67

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Mechanical**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Fire Protection**

	*Institution	National		Carnegie Comparator	
Examinees Taking	1	64		23	
Examinees Passing	0	29		14	
Examinees Passing %	0	45		61	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation	Prof+A&S/HGC AVG % Correct ***
				**	

Subject

Fire Protection Analysis: Types of Analysis	9	78	64	1.9	67
Fire Protection Analysis: Information Sources for Analysis	7	71	70	1.4	77
Fire Protection Management	8	100	66	1.5	73
Fire Science & Human Behavior: Fire Dynamics	8	50	42	1.4	47
Fire Science & Human Behavior: Human Response	4	75	61	1.0	64
Fire Protection Systems: Water-Based Fire Suppression Systems	10	40	54	1.9	59
Fire Protection Systems: Special Hazard Systems	4	0	59	1.0	60
Fire Protection Systems: Fire Detection & Alarm Systems	7	57	60	1.4	62
Fire Protection Systems: Smoke Management Systems	4	50	69	1.1	70
Fire Protection Systems: Explosion Protection & Prevention Systems	3	33	50	0.7	45
Passive Building Systems: Building Construction	11	36	64	2.3	63
Passive Building Systems: Means of Egress	5	40	41	1.1	44

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Mechanical	PM Exam	PE - Mechanical - HVAC and Refrigeration

	*Institution	National		Carnegie Comparator
Examinees Taking	3	462		124
Examinees Passing	3	328		88
Examinees Passing %	100	71		71
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	83	81	1.7	81
Mechanical Systems & Materials: Principles	5	87	72	1.2	70
Mechanical Systems & Materials: Applications	3	56	63	0.9	63
Hydraulics & Fluids: Principles	3	56	72	0.8	71
Hydraulics & Fluids: Applications	4	75	80	0.8	81
Energy & Power Systems: Principles	3	67	76	0.8	76
Energy & Power Systems: Applications	3	44	55	0.9	53
HVAC & Refrigeration: Principles	4	75	79	1.0	78
HVAC & Refrigeration: Applications	3	56	59	0.8	62

PM Subject

Principles: Thermodynamics	3	67	58	0.9	60
Principles: Psychrometrics	6	22	60	1.5	60
Principles: Heat Transfer	5	33	51	1.3	49
Principles: Fluid Mechanics	3	56	58	0.9	58
Principles: Compressible Flow	1	33	57	0.5	54
Principles: Energy Balances	4	58	51	1.0	50
Applications: Equipment and Components	8	50	44	1.8	44
Applications: Systems	7	43	51	1.6	51
Applications: Supportive Knowledges	3	67	71	0.8	70

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** The standard deviation of the above is based on number of questions correct not percentage of questions correct.

*** Indicates schools in your Carnegie classification, see www.carnegiefoundation.org

TERMS AND CONDITIONS OF DATA USE

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Mechanical	PM Exam	PE - Mechanical - Mechanical Systems and Materials

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	370	105		
Examinees Passing	1	213	66		
Examinees Passing %	100	58	63		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	92	80	1.8	82
Mechanical Systems & Materials: Principles	5	80	82	1.0	83
Mechanical Systems & Materials: Applications	3	67	75	0.7	79
Hydraulics & Fluids: Principles	3	67	76	0.7	77
Hydraulics & Fluids: Applications	4	75	74	0.9	75
Energy & Power Systems: Principles	3	100	71	0.8	72
Energy & Power Systems: Applications	3	33	49	0.9	49
HVAC & Refrigeration: Principles	4	50	61	1.1	61
HVAC & Refrigeration: Applications	3	100	45	0.8	46

PM Subject

Principles: Statics (free-body diagrams)	6	83	61	1.4	65
Principles: Kinematics (linear & rotational motion)	3	0	52	0.9	52
Principles: Dynamics (particle & rigid body)	4	50	64	1.2	65
Principles: Materials Properties (physical)	4	75	65	1.0	68
Principles: Strength of Materials (stress & strain)	7	43	60	1.5	61
Applications: Mechanical Components	4	75	61	1.1	60
Applications: Joints & Fasteners	4	50	61	1.1	62
Applications: Vibration & Dynamic Analysis	4	25	44	1.2	43
Applications: Materials & Process	4	75	57	1.1	58

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

Graduates	Engineering		
Subject Matter Report by Major and PM Examination			
Board Code:	71	Institution:	University of Kentucky, Lexington
Major	Mining/Mineral	School Code:	7101
		PM Exam	PE - Mining and Mineral Processing

	*Institution	National	Carnegie Comparator
Examinees Taking	7	47	30
Examinees Passing	5	33	23
Examinees Passing %	71	70	77
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Exploration: Apply exploration methods & techniques	3	29	28	0.7	27
Exploration: Characterize site geologic & geotechnical conditions	3	67	74	0.7	74
Exploration: Estimate & characterize & evaluate resource reserves	4	75	62	1.1	64
Mine Planning & Operations: Plan & design & implement mining methods and layouts	8	52	60	1.8	59
Mine Planning & Operations: Plan & design & select and-or construct mine equipment and facilities and systems	13	71	68	1.8	72
Mine Planning & Operations: Evaluate & design ground control	7	82	82	1.1	81
Mine Planning & Operations: Operate & manage mines & systems	4	68	72	1.0	74
Mineral Processing: Perform laboratory & pilot testing and analysis	4	54	47	1.2	52
Mineral Processing: Design & evaluate process flow sheets	9	56	53	2.2	53
Mineral Processing: Plan & design & select and-or construct plant equipment and facilities and systems	7	53	64	1.7	64
Mineral Processing: Operate & manage plants & facilities	4	68	60	0.7	61
Environment & Reclamation: Characterize site & mining & process environment	4	64	59	1.1	67
Environment & Reclamation: Plan & design to mitigate exploration & mining & processing impacts	5	69	60	1.3	64
Environment & Reclamation: Operate & manage environmental & reclamation plan	3	57	67	0.8	67
Environment & Reclamation: Close & reclaim the site	2	100	77	0.7	80

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