

NCEES

Principles and Practice of Engineering Examination

ABET - Accredited Programs

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

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

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	23	15
Examinees Passing	1	18	10
Examinees Passing %	100	78	67

	# 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	66	0.8	63
Engineering Principles and Professional Practices: Codes; Graphics; and Safety	2	0	76	0.6	70
Engineering Principles and Professional Practices: Economics and Statistics	4	75	72	0.9	75
Engineering Principles and Professional Practices: Physical Operations	6	50	69	1.3	67
Facility Engineering: Plant; Animal; and Commodity Environments and Structures: Environment	6	67	69	1.4	64
Facility Engineering: Plant; Animal; and Commodity Environments and Structures: Structures	6	67	64	1.4	67
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Agricultural Machines	5	60	65	1.3	63
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Machine System Design	6	50	60	1.3	57
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Power Systems	4	25	80	1.0	80
Machine Systems: Power; Electrical-Electronic; Machines; Controls; and Sensors: Power Transmission Systems	5	80	59	0.9	59
Natural Resource Engineering: Soil; Water; and Plant Systems: Applications	9	56	71	1.8	65
Natural Resource Engineering: Soil; Water; and Plant Systems: Fundamentals	6	67	71	1.1	68
Natural Resource Engineering: Soil; Water; and Plant Systems: Interactions among Natural Resources	9	67	73	1.3	69
Process Engineering: Food; Feed; Fiber; and Fuel Products: Energy Sources (e.g. Fossil Fuels; Solar; Wind; Biomass; Hydro)	1	100	61	0.5	53
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	100	87	0.3	87
Process Engineering: Food; Feed; Fiber; and Fuel Products: Mass Transfer Between Phases (e.g. Drying; Extraction; Leaching; Evaporative Cooling)	3	100	75	0.8	71
Process Engineering: Food; Feed; Fiber; and Fuel Products: Material Properties	3	100	75	0.6	76

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	7	4		
Examinees Passing	0	1	1		
Examinees Passing %	0	14	25		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	63	55	1.4	69
Geotechnical	8	63	39	1.2	41
Structural	8	50	54	1.9	66
Transportation	8	38	52	2.0	63
Water Resources & Environmental	8	38	57	1.9	63

PM Subject

Earthwork Construction & Layout	4	100	57	1.5	81
Estimating Quantities & Costs	7	29	49	1.6	43
Construction Operations & Methods	6	67	62	0.5	62
Scheduling	7	86	84	0.9	86
Material Quality Control & Production	4	50	64	1.0	75
Temporary Structures	5	20	34	1.4	35
Worker - Health & Safety & Environment	3	100	71	0.9	75
Other Topics	4	0	39	1.0	31

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

	*Institution	National		Carnegie Comparator
Examinees Taking	1	6		4
Examinees Passing	0	3		2
Examinees Passing %	0	50		50
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	75	67	1.0	69
Water: Wastewater	10	50	55	1.6	55
Water: Stormwater	4	25	63	0.8	63
Water: Potable Water	10	60	65	1.6	60
Water: Water Resources	4	0	50	1.7	31
Solid Waste: Basic Principles	3	67	56	0.5	58
Solid Waste: Municipal and Industrial Solid Waste	6	67	61	1.6	71
Solid Waste: Hazardous Waste	6	50	69	1.2	62
Solid Waste: Medical; Radioactive; Other Waste	3	33	78	0.8	75
Air: Basic Principles	7	57	67	1.8	57
Air: Pollution Control	16	50	66	2.6	64
Site Assessment and Remediation: Basic Principles	6	33	47	1.5	54
Site Assessment and Remediation: Site Assessment	3	33	44	1.0	42
Site Assessment and Remediation: Remediation	3	67	78	0.5	83
Environmental Health and Safety	8	75	81	1.0	81
Associated Engineering Principles	7	71	79	1.0	75

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

	*Institution	National		Carnegie	Comparator
Examinees Taking	1	19		8	8
Examinees Passing	0	13		4	4
Examinees Passing %	0	68		50	50
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	38	67	1.6	50
Geotechnical	8	63	56	1.5	56
Structural	8	50	56	1.9	52
Transportation	8	63	61	2.3	50
Water Resources & Environmental	8	63	83	1.3	81

PM Subject

Hydraulics -- Closed Conduit	6	83	71	1.2	62
Hydraulics -- Open Channel	6	33	54	1.4	54
Hydrology	6	67	72	1.0	69
Groundwater and Well Fields	3	100	79	0.6	83
Wastewater Treatment	6	17	51	1.4	54
Water Quality	6	50	56	1.5	58
Water Treatment	6	67	74	1.0	67
Engineering Economics	1	100	79	0.4	75

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

	*Institution	National	Carnegie
			Comparator
Examinees Taking	1	201	54
Examinees Passing	1	118	32
Examinees Passing %	100	59	59
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Mass Energy Balances and Thermodynamics: Mass Balances	8	75	63	2.0	63
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	10	70	63	2.0	63
Heat Transfer: Mechanisms	7	71	62	1.6	58
Heat Transfer: Applications	6	50	71	1.3	72
Kinetics: Reaction Parameters	5	80	63	1.3	59
Kinetics: Reactors	4	25	52	1.2	52
Fluids: Mechanical-Energy Balance	10	50	55	2.3	56
Fluids: Flow and Pressure Measurement Techniques	3	33	64	1.0	59
Mass Transfer: Phase Equilibria	4	0	53	1.0	53
Mass Transfer: Continuous Vapor-Liquid Contactors	6	67	45	1.3	42
Mass Transfer: Miscellaneous Mass Transfer Processes	1	100	86	0.4	78
Plant Design and Operation: Economic Considerations	1	100	80	0.4	87
Plant Design and Operation: Design	8	38	61	1.5	62
Plant Design and Operation: Operation	3	67	74	0.8	77
Plant Design and Operation: Safety; Health; and Environment	4	50	66	1.0	69

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

	*Institution	National	Carnegie	Comparator	
Examinees Taking	13	816		223	
Examinees Passing	8	358		104	
Examinees Passing %	62	44		47	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	71	67	1.6	68
Geotechnical	8	58	56	1.5	56
Structural	8	72	67	1.6	66
Transportation	8	64	64	1.7	64
Water Resources & Environmental	8	74	64	1.8	64

PM Subject

Earthwork Construction & Layout	4	71	73	1.0	74
Estimating Quantities & Costs	7	73	56	1.6	57
Construction Operations & Methods	6	82	74	1.2	75
Scheduling	7	77	76	1.4	77
Material Quality Control & Production	4	58	55	1.0	57
Temporary Structures	5	34	36	1.1	34
Worker - Health & Safety & Environment	3	90	75	0.7	78
Other Topics	4	52	43	1.0	47

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

	*Institution	National	Carnegie Comparator
Examinees Taking	4	389	89
Examinees Passing	4	211	50
Examinees Passing %	100	54	56
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	69	65	1.6	68
Geotechnical	8	88	71	1.7	74
Structural	8	100	73	1.6	76
Transportation	8	72	65	1.7	66
Water Resources & Environmental	8	81	67	1.9	67

PM Subject

Subsurface Exploration & Sampling	3	58	65	0.9	69
Engineering Properties of Soils & Materials	5	75	65	1.0	65
Soil Mechanics Analysis	5	55	49	1.3	47
Earthquake Engineering	2	63	61	0.7	58
Earth Structures	4	100	72	0.9	74
Shallow Foundations	6	42	54	1.3	56
Earth Retaining Structures Including Temporary Structures	7	61	57	1.8	58
Deep Foundations	4	81	54	1.2	54
Other Topics	4	50	48	1.0	48

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

	*Institution	National	Carnegie Comparator
Examinees Taking	4	731	203
Examinees Passing	1	490	137
Examinees Passing %	25	67	67

	# 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	73	1.6	74
Geotechnical	8	56	66	1.6	68
Structural	8	91	86	1.3	88
Transportation	8	59	72	1.7	73
Water Resources & Environmental	8	59	74	1.7	74

PM Subject

Loadings	5	45	70	1.1	70
Analysis	5	35	64	1.3	60
Mechanics of Materials	5	50	69	1.1	70
Materials	5	55	65	1.1	65
Member Design	10	43	50	2.2	52
Design Criteria	5	35	52	1.1	53
Other Topics	5	70	70	1.2	69

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	15	1,469	456		
Examinees Passing	11	727	270		
Examinees Passing %	73	49	59		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	71	61	1.6	64
Geotechnical	8	55	53	1.5	54
Structural	8	67	62	1.7	64
Transportation	8	83	74	1.7	77
Water Resources & Environmental	8	69	67	1.8	70

PM Subject

Traffic Analysis	9	73	66	1.8	69
Geometric Design	12	72	67	2.1	70
Transportation Planning	3	80	63	0.9	66
Traffic Safety	6	68	63	1.2	66
Other Topics	10	72	62	1.7	66

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

	*Institution	National	Carnegie Comparator
Examinees Taking	5	871	243
Examinees Passing	2	479	138
Examinees Passing %	40	55	57
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
			National Standard Deviation **
			Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	65	61	1.7	62
Geotechnical	8	48	58	1.5	58
Structural	8	65	64	1.7	66
Transportation	8	60	66	1.7	64
Water Resources & Environmental	8	68	76	1.6	76

PM Subject

Hydraulics -- Closed Conduit	6	50	66	1.2	67
Hydraulics -- Open Channel	6	53	57	1.4	57
Hydrology	6	50	69	1.3	70
Groundwater and Well Fields	3	80	76	0.8	78
Wastewater Treatment	6	57	53	1.4	52
Water Quality	6	23	50	1.3	51
Water Treatment	6	60	66	1.3	67
Engineering Economics	1	100	80	0.4	80

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

	*Institution	National	Carnegie Comparator
Examinees Taking	7	1,101	322
Examinees Passing	4	617	201
Examinees Passing %	57	56	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	71	71	1.1	71
General Power Engineering: Special Applications	8	57	58	1.5	60
General Power Engineering: Codes & Standards	10	66	65	1.7	67
Circuit Analysis: Analysis	9	59	67	1.9	69
Circuit Analysis: Devices & Power Electronic Circuits	7	51	52	1.5	54
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	47	63	1.8	64
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	57	61	1.3	63
Transmissions & Distribution: System Analysis	10	56	58	1.8	59
Transmissions & Distribution: Power System Performance	6	67	66	1.1	67
Transmissions & Distribution: Protection	8	70	68	1.5	71

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	18	9
Examinees Passing	0	7	3
Examinees Passing %	0	39	33
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Foundation Topics: Statistics	4	25	46	1.0	39
Foundation Topics: Physical-Engineering Sciences	9	11	40	1.6	43
Foundation Topics: Mechanics of Materials	4	0	24	1.0	22
Foundation Topics: Process Fundamentals	9	44	45	1.1	47
Structure & Properties: Structure-Phase-Transformations	8	38	38	1.2	33
Structure & Properties: Mechanical Properties of Metals & Materials	8	38	47	1.4	50
Structure & Properties: Applications & Specifications of Metal & Materials Selection	8	50	50	1.4	44
Processing: Heat Treatments	6	50	62	1.2	54
Processing: Surface Modification	4	75	64	0.9	61
Processing: Forming & Fabrication	7	29	44	1.7	40
Performance: A Material Testing	6	0	47	1.3	50
Performance: Material Degradation	6	67	42	1.4	39
Performance: Waste Process Control & Environmental Impact	1	0	44	0.5	44

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ABET - Accredited Programs

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

	*Institution	National	Carnegie Comparator
Examinees Taking	3	89	30
Examinees Passing	2	44	22
Examinees Passing %	67	49	73
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % ***

Subject

Fire Protection Analysis: Types of Analysis	7	57	63	1.5	70
Fire Protection Analysis: Information Sources for Analysis	9	63	59	1.8	65
Fire Protection Management: Risk management	2	100	76	0.7	80
Fire Protection Management: Inspection; testing; and maintenance procedures and frequencies	2	67	74	0.7	83
Fire Dynamics: Fire and smoke behavior	3	44	60	0.9	61
Fire Dynamics: Fire growth	1	33	72	0.5	77
Fire Dynamics: Combustion	1	67	93	0.3	87
Fire Dynamics: Plume entrainment (e.g. axisymmetric; balcony spill; window; corner; wall)	2	67	72	0.6	77
Fire Dynamics: Material properties (e.g. heat of combustion; ignitability; thermal; mechanical; flammable and explosive limits)	1	33	51	0.5	63
Fire Dynamics: Heat transfer from fire and smoke	2	50	51	0.7	57
Active and Passive Systems: Water-Based Fire Suppression Systems	12	56	59	2.3	63
Active and Passive Systems: Special Hazard Systems	8	71	66	1.6	68
Active and Passive Systems: Fire Detection and Alarm Systems	6	67	58	1.2	61
Active and Passive Systems: Smoke Management Systems	4	50	53	1.0	60
Active and Passive Systems: Explosion Protection and Prevention Systems	2	67	78	0.5	75
Active and Passive Systems: Passive Building Systems	8	75	74	1.7	80
Egress and Occupant Movement: Means of Egress	7	62	59	1.4	65
Egress and Occupant Movement: Human Behavior	3	67	58	1.0	71

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Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	PE - Mechanical - HVAC and Refrigeration
Major	Mechanical		

	*Institution	National		Carnegie Comparator	
Examinees Taking	6	478		139	
Examinees Passing	3	339		92	
Examinees Passing %	50	71		66	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	79	71	2.0	72
Mechanical Systems & Materials: Principles	5	43	41	1.1	41
Mechanical Systems & Materials: Applications	3	56	57	0.9	58
Hydraulics & Fluids: Principles	3	44	50	0.8	48
Hydraulics & Fluids: Applications	4	50	68	1.1	67
Energy & Power Systems: Principles	3	50	60	0.9	62
Energy & Power Systems: Applications	3	33	44	0.8	43
HVAC & Refrigeration: Principles	4	63	69	1.0	68
HVAC & Refrigeration: Applications	3	72	76	0.7	74

PM Subject

Principles: Thermodynamics	3	56	58	0.8	58
Principles: Psychrometrics	6	56	53	1.3	52
Principles: Heat Transfer	5	50	58	1.3	55
Principles: Fluid Mechanics	3	50	66	0.9	68
Principles: Compressible Flow	1	0	45	0.5	43
Principles: Energy Balances	4	38	55	1.2	52
Applications: Equipment and Components	8	52	66	1.4	65
Applications: Systems	7	67	61	1.6	61
Applications: Supportive Knowledges	3	56	66	0.7	66

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

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

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

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

	*Institution	National		Carnegie Comparator	
Examinees Taking	1	432		119	
Examinees Passing	1	271		82	
Examinees Passing %	100	63		69	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	75	75	1.8	77
Mechanical Systems & Materials: Principles	5	100	62	1.2	65
Mechanical Systems & Materials: Applications	3	67	66	0.9	69
Hydraulics & Fluids: Principles	3	33	53	0.8	55
Hydraulics & Fluids: Applications	4	75	66	1.1	67
Energy & Power Systems: Principles	3	100	57	0.9	62
Energy & Power Systems: Applications	3	67	44	0.8	46
HVAC & Refrigeration: Principles	4	75	51	1.1	54
HVAC & Refrigeration: Applications	3	100	58	0.8	60

PM Subject

Principles: Statics (free-body diagrams)	6	100	71	1.4	75
Principles: Kinematics (linear & rotational motion)	3	67	59	0.9	64
Principles: Dynamics (particle & rigid body)	4	75	71	0.9	74
Principles: Materials Properties (physical)	4	100	77	0.9	80
Principles: Strength of Materials (stress & strain)	7	43	57	1.6	60
Applications: Mechanical Components	4	100	76	1.0	81
Applications: Joints & Fasteners	4	75	60	1.0	66
Applications: Vibration & Dynamic Analysis	4	75	65	1.0	67
Applications: Materials & Process	4	100	67	0.9	72

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

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

	*Institution	National		Carnegie Comparator	
Examinees Taking	2	460		139	
Examinees Passing	1	284		87	
Examinees Passing %	50	62		63	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	71	71	2.0	72
Mechanical Systems & Materials: Principles	5	40	47	1.2	45
Mechanical Systems & Materials: Applications	3	33	57	0.9	59
Hydraulics & Fluids: Principles	3	33	59	0.9	59
Hydraulics & Fluids: Applications	4	63	77	1.0	76
Energy & Power Systems: Principles	3	67	63	0.9	65
Energy & Power Systems: Applications	3	50	46	0.8	48
HVAC & Refrigeration: Principles	4	63	55	1.1	58
HVAC & Refrigeration: Applications	3	33	63	0.8	64

PM Subject

Principles: Materials Properties (density)	2	100	73	0.6	71
Principles: Fluid Mechanics	4	63	66	1.0	67
Principles: Heat Transfer Principles (convection)	4	63	60	1.2	58
Principles: Mass Balance Principles (evaporation)	3	83	62	0.8	64
Principles: Thermodynamics	4	25	48	1.2	51
Principles: Related Principles	1	100	60	0.5	64
Applications: Equipment	7	57	61	1.7	61
Applications: Systems	13	46	60	2.5	60
Applications: Codes & Standards	2	100	78	0.6	81

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

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

	*Institution	National	Carnegie Comparator
Examinees Taking	9	52	28
Examinees Passing	5	37	18
Examinees Passing %	56	71	64
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Exploration: Apply exploration methods & techniques	3	56	58	0.8	57
Exploration: Characterize site geologic & geotechnical conditions	3	11	41	1.0	24
Exploration: Estimate & characterize & evaluate resource reserves	4	39	66	1.1	57
Mine Planning & Operations: Plan & design & implement mining methods and layouts	8	57	59	1.6	58
Mine Planning & Operations: Plan & design & select and-or construct mine equipment and facilities and systems	13	56	60	2.3	60
Mine Planning & Operations: Evaluate & design ground control	7	67	79	1.3	79
Mine Planning & Operations: Operate & manage mines & systems	4	61	72	0.9	65
Mineral Processing: Perform laboratory & pilot testing and analysis	4	47	56	1.2	54
Mineral Processing: Design & evaluate process flow sheets	9	57	61	2.3	58
Mineral Processing: Plan & design & select and-or construct plant equipment and facilities and systems	7	62	63	1.7	66
Mineral Processing: Operate & manage plants & facilities	4	53	63	1.0	57
Environment & Reclamation: Characterize site & mining & process environment	4	53	53	1.0	51
Environment & Reclamation: Plan & design to mitigate exploration & mining & processing impacts	5	49	65	1.3	64
Environment & Reclamation: Operate & manage environmental & reclamation plan	3	59	68	0.8	62
Environment & Reclamation: Close & reclaim the site	2	39	69	0.7	61

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