

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 - Civil - Transportation**

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	5	3
Examinees Passing	1	2	2
Examinees Passing %	100	40	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	88	70	1.5	75
Geotechnical	8	50	53	1.5	58
Structural	8	63	53	1.1	54
Transportation	8	75	63	3.0	79
Water Resources & Environmental	8	100	73	1.5	83

PM Subject

Traffic Analysis	9	78	67	1.7	74
Geometric Design	12	75	52	2.4	64
Transportation Planning	3	67	40	0.8	56
Traffic Safety	6	67	63	1.3	78
Other Topics	10	50	66	1.1	67

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

	*Institution	National	Carnegie Comparator
Examinees Taking	2	20	11
Examinees Passing	2	18	11
Examinees Passing %	100	90	100
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	81	80	1.0	83
Geotechnical	8	63	59	1.3	63
Structural	8	75	63	1.4	65
Transportation	8	75	73	1.5	74
Water Resources & Environmental	8	69	83	1.3	82

PM Subject

Hydraulics -- Closed Conduit	6	92	94	0.6	97
Hydraulics -- Open Channel	6	75	64	1.7	71
Hydrology	6	75	82	1.0	86
Groundwater and Well Fields	3	50	60	0.6	61
Wastewater Treatment	6	75	54	1.3	56
Water Quality	6	83	77	0.7	80
Water Treatment	6	83	67	1.5	74
Engineering Economics	1	100	70	0.5	82

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

	*Institution	National		Carnegie Comparator	
Examinees Taking	1	42		12	
Examinees Passing	1	19		8	
Examinees Passing %	100	45		67	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	0	45	0.9	40
Water: Wastewater	10	60	61	2.0	72
Water: Stormwater	4	75	37	1.0	40
Water: Potable Water	10	70	55	1.6	58
Water: Water Resources	4	50	57	0.9	54
Solid Waste: Basic Principles	3	67	45	0.8	44
Solid Waste: Municipal and Industrial Solid Waste	6	83	72	1.1	75
Solid Waste: Hazardous Waste	6	50	49	1.1	54
Solid Waste: Medical; Radioactive; Other Waste	3	67	54	1.0	50
Air: Basic Principles	7	100	77	1.2	85
Air: Pollution Control	16	81	63	2.3	68
Site Assessment and Remediation: Basic Principles	5	100	71	1.1	67
Site Assessment and Remediation: Site Assessment	3	100	65	0.8	67
Site Assessment and Remediation: Remediation	4	50	49	0.9	60
Environmental Health and Safety	8	75	64	1.3	63
Associated Engineering Principles	7	86	72	1.4	76

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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 - Civil - Transportation
Major	Chemical		

	*Institution	National		Carnegie Comparator
Examinees Taking	1	3		2
Examinees Passing	0	1		1
Examinees Passing %	0	33		50

	# 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	63	75	1.0	75
Geotechnical	8	63	38	2.0	50
Structural	8	13	29	1.5	31
Transportation	8	88	75	1.7	88
Water Resources & Environmental	8	75	71	0.6	69

PM Subject

Traffic Analysis	9	33	52	1.5	44
Geometric Design	12	42	64	2.3	58
Transportation Planning	3	67	78	0.6	83
Traffic Safety	6	33	72	2.1	58
Other Topics	10	80	77	2.5	90

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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	5	832	212		
Examinees Passing	5	428	130		
Examinees Passing %	100	51	61		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	90	77	1.3	79
Geotechnical	8	65	59	1.6	61
Structural	8	88	65	1.6	67
Transportation	8	85	68	1.8	72
Water Resources & Environmental	8	83	65	1.8	68

PM Subject

Earthwork Construction & Layout	4	65	54	1.0	55
Estimating Quantities & Costs	7	89	72	1.4	76
Construction Operations & Methods	6	80	63	1.2	67
Scheduling	7	77	69	1.3	72
Material Quality Control & Production	4	90	68	1.0	71
Temporary Structures	5	60	54	1.3	58
Worker - Health & Safety & Environment	3	60	51	0.8	54
Other Topics	4	75	52	1.0	57

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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	Civil		

	*Institution	National		Carnegie Comparator
Examinees Taking	1		52	12
Examinees Passing	1		24	6
Examinees Passing %	100		46	50
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	75	45	0.9	40
Water: Wastewater	10	80	59	1.9	56
Water: Stormwater	4	50	44	0.8	44
Water: Potable Water	10	50	51	1.7	55
Water: Water Resources	4	75	67	0.9	67
Solid Waste: Basic Principles	3	100	49	0.8	50
Solid Waste: Municipal and Industrial Solid Waste	6	50	68	1.1	68
Solid Waste: Hazardous Waste	6	67	45	1.1	50
Solid Waste: Medical; Radioactive; Other Waste	3	67	62	0.8	64
Air: Basic Principles	7	71	71	1.6	71
Air: Pollution Control	16	75	56	3.1	52
Site Assessment and Remediation: Basic Principles	5	80	70	1.1	82
Site Assessment and Remediation: Site Assessment	3	67	59	0.8	64
Site Assessment and Remediation: Remediation	4	50	44	0.9	42
Environmental Health and Safety	8	75	63	1.4	60
Associated Engineering Principles	7	86	71	1.3	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 - Geotechnical
Major	Civil		

	*Institution	National		Carnegie	
				Comparator	
Examinees Taking	2		345	98	
Examinees Passing	1		190	56	
Examinees Passing %	50		55	57	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	81	77	1.4	81
Geotechnical	8	75	72	1.5	73
Structural	8	44	70	1.7	70
Transportation	8	44	69	1.7	72
Water Resources & Environmental	8	31	67	1.8	66

PM Subject

Subsurface Exploration & Sampling	3	50	74	0.8	74
Engineering Properties of Soils & Materials	5	80	68	1.2	69
Soil Mechanics Analysis	5	60	59	1.2	61
Earthquake Engineering	2	100	78	0.6	78
Earth Structures	4	100	72	0.9	74
Shallow Foundations	6	50	60	1.4	61
Earth Retaining Structures Including Temporary Structures	7	50	56	1.5	56
Deep Foundations	4	75	68	1.0	69
Other Topics	4	75	73	1.0	77

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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	646	186
Examinees Passing	2	483	138
Examinees Passing %	50	75	74

	# 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	84	84	1.2	85
Geotechnical	8	63	69	1.5	70
Structural	8	81	87	1.2	87
Transportation	8	72	75	1.7	75
Water Resources & Environmental	8	78	74	1.6	74

PM Subject

Loadings	5	75	71	1.2	71
Analysis	5	70	83	0.9	84
Mechanics of Materials	5	55	72	1.0	73
Materials	5	75	81	1.0	82
Member Design	10	55	63	1.9	62
Design Criteria	5	50	65	1.1	64
Other Topics	5	35	61	1.1	61

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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	11	1,231	380
Examinees Passing	8	771	256
Examinees Passing %	73	63	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	69	72	1.5	73
Geotechnical	8	58	57	1.6	59
Structural	8	63	59	1.6	61
Transportation	8	76	75	1.6	77
Water Resources & Environmental	8	70	68	1.7	72

PM Subject

Traffic Analysis	9	68	69	1.4	70
Geometric Design	12	70	69	2.2	71
Transportation Planning	3	64	58	0.8	60
Traffic Safety	6	56	63	1.2	64
Other Topics	10	74	70	1.8	73

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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	800	231
Examinees Passing	4	540	151
Examinees Passing %	80	68	65
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	78	75	1.4	74
Geotechnical	8	68	59	1.6	59
Structural	8	63	61	1.7	60
Transportation	8	70	70	1.7	69
Water Resources & Environmental	8	83	79	1.5	78

PM Subject

Hydraulics -- Closed Conduit	6	83	85	0.9	86
Hydraulics -- Open Channel	6	53	62	1.3	61
Hydrology	6	83	76	1.2	75
Groundwater and Well Fields	3	47	52	0.8	53
Wastewater Treatment	6	60	50	1.4	49
Water Quality	6	70	69	1.3	68
Water Treatment	6	67	59	1.5	58
Engineering Economics	1	80	45	0.5	41

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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: Electrical and Electronics

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	89	22		
Examinees Passing	1	59	20		
Examinees Passing %	100	66	91		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Prof+ Standard Deviation **	A&S/HGC AVG % Correct ***

Subject

General Electrical Engineering Knowledge: Circuit Analysis	19	95	66	3.8	79
General Electrical Engineering Knowledge: Measurement & Instrumentation	8	88	65	1.8	73
General Electrical Engineering Knowledge: Safety & Design Limits	3	100	82	0.8	92
General Electrical Engineering Knowledge: Signal Processing	10	100	68	2.0	80
Digital Systems: Digital Logic	4	100	73	0.9	81
Digital Systems: Digital Components	4	75	61	1.3	70
Electric & Magnetic Field Theory & Applications: Electromagnetic Fields	2	100	84	0.6	93
Electric & Magnetic Field Theory & Applications: Transmission Lines & Guided Waves	2	100	35	0.7	55
Electric & Magnetic Field Theory & Applications: Antennas	4	100	48	1.2	56
Electronics: Electronic Circuit Theory	6	100	69	1.4	83
Electronics: Electronic Components & Circuits	4	100	52	1.2	63
Control System Fundamentals: Characteristic Equations	3	67	57	0.9	71
Control System Fundamentals: Frequency Response	2	100	55	0.8	59
Control System Fundamentals: Stability	1	100	57	0.5	55
Communications: Modulation	2	100	54	0.7	55
Communications: Noise & Interference	2	100	65	0.7	80
Communications: Telecommunications	4	75	54	1.3	50

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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	8	814	227		
Examinees Passing	6	440	135		
Examinees Passing %	75	54	59		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

General Power Engineering: Measurement & Instrumentation	6	85	77	1.2	79
General Power Engineering: Special Applications	8	63	62	1.7	64
General Power Engineering: Codes & Standards	10	70	71	1.7	72
Circuit Analysis: Analysis	9	78	70	2.0	72
Circuit Analysis: Devices & Power Electronic Circuits	7	48	59	1.4	59
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	73	76	1.5	77
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	69	67	1.4	68
Transmissions & Distribution: System Analysis	10	75	65	1.8	67
Transmissions & Distribution: Power System Performance	6	73	62	1.3	64
Transmissions & Distribution: Protection	8	75	65	1.6	67

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

	*Institution	National		Carnegie Comparator
Examinees Taking	5	466		136
Examinees Passing	4	340		99
Examinees Passing %	80	73		73
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	78	74	1.7	73
Mechanical Systems & Materials: Principles	5	44	51	1.2	50
Mechanical Systems & Materials: Applications	3	80	70	0.9	70
Hydraulics & Fluids: Principles	3	40	59	0.9	56
Hydraulics & Fluids: Applications	4	65	64	1.0	65
Energy & Power Systems: Principles	3	40	47	0.9	46
Energy & Power Systems: Applications	3	40	49	0.9	50
HVAC & Refrigeration: Principles	4	85	71	1.1	72
HVAC & Refrigeration: Applications	3	93	84	0.8	85

PM Subject

Principles: Thermodynamics	3	47	55	0.9	56
Principles: Psychrometrics	6	60	56	1.4	57
Principles: Heat Transfer	5	60	65	1.1	63
Principles: Fluid Mechanics	3	67	66	0.9	66
Principles: Compressible Flow	1	100	48	0.5	49
Principles: Energy Balances	4	80	70	0.9	71
Applications: Equipment and Components	8	58	59	1.5	60
Applications: Systems	7	71	55	1.5	58
Applications: Supportive Knowledges	3	67	56	0.8	57

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

	*Institution	National		Carnegie Comparator	
Examinees Taking	2	396		113	
Examinees Passing	2	230		74	
Examinees Passing %	100	58		65	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	79	73	1.7	75
Mechanical Systems & Materials: Principles	5	70	64	1.2	67
Mechanical Systems & Materials: Applications	3	83	82	0.7	85
Hydraulics & Fluids: Principles	3	67	61	0.9	64
Hydraulics & Fluids: Applications	4	75	67	1.1	68
Energy & Power Systems: Principles	3	50	50	0.8	50
Energy & Power Systems: Applications	3	50	40	0.9	39
HVAC & Refrigeration: Principles	4	63	45	1.2	46
HVAC & Refrigeration: Applications	3	67	53	0.9	55

PM Subject

Principles: Statics (free-body diagrams)	6	92	66	1.5	67
Principles: Kinematics (linear & rotational motion)	3	83	73	0.9	76
Principles: Dynamics (particle & rigid body)	4	50	55	1.1	56
Principles: Materials Properties (physical)	4	63	76	0.9	78
Principles: Strength of Materials (stress & strain)	7	79	54	1.7	60
Applications: Mechanical Components	4	75	60	1.2	64
Applications: Joints & Fasteners	4	63	56	0.9	58
Applications: Vibration & Dynamic Analysis	4	38	40	1.1	43
Applications: Materials & Process	4	100	75	0.9	78

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

	*Institution	National		Carnegie Comparator	
Examinees Taking	4	417		114	
Examinees Passing	4	264		73	
Examinees Passing %	100	63		64	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	73	74	1.7	73
Mechanical Systems & Materials: Principles	5	60	57	1.2	57
Mechanical Systems & Materials: Applications	3	92	75	0.8	78
Hydraulics & Fluids: Principles	3	67	66	0.9	71
Hydraulics & Fluids: Applications	4	75	68	1.0	67
Energy & Power Systems: Principles	3	83	56	0.9	58
Energy & Power Systems: Applications	3	75	48	0.9	47
HVAC & Refrigeration: Principles	4	88	58	1.2	59
HVAC & Refrigeration: Applications	3	83	63	0.9	65

PM Subject

Principles: Materials Properties (density)	2	75	67	0.6	72
Principles: Fluid Mechanics	4	75	70	0.8	71
Principles: Heat Transfer Principles (convection)	4	69	61	1.0	60
Principles: Mass Balance Principles (evaporation)	3	75	71	0.8	71
Principles: Thermodynamics	4	81	68	0.9	70
Principles: Related Principles	1	100	93	0.3	92
Applications: Equipment	7	79	65	1.6	63
Applications: Systems	13	71	58	2.6	59
Applications: Codes & Standards	2	88	72	0.7	79

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

** 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

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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: Major	71 Metallurgical	School Code: PM Exam 7101 PE - Industrial

	*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 Prof+A&S/HGC Standard Deviation **	AVG % Correct ***

Subject

Systems Definition; Analysis; and Design: System analysis and design tools	7	86	86	0.0	86
Systems Definition; Analysis; and Design: Requirements analysis	1	100	100	0.0	100
Systems Definition; Analysis; and Design: Modeling techniques	1	0	0	0.0	0
Systems Definition; Analysis; and Design: Process types	1	100	100	0.0	100
Systems Definition; Analysis; and Design: Value analysis and engineering	3	100	100	0.0	100
Systems Definition; Analysis; and Design: Project management and planning	3	100	100	0.0	100
Facilities Engineering and Planning: Process flow techniques	2	100	100	0.0	100
Facilities Engineering and Planning: Layout design techniques	3	67	67	0.0	67
Facilities Engineering and Planning: Capacity analysis	2	100	100	0.0	100
Facilities Engineering and Planning: Site selection factors	1	100	100	0.0	100
Facilities Engineering and Planning: Site selection methods	3	33	33	0.0	33
Facilities Engineering and Planning: Unit load analysis	4	75	75	0.0	75
Facilities Engineering and Planning: Material handling techniques and equipment	1	100	100	0.0	100
Supply Chain and Logistics: Forecasting methods	2	100	100	0.0	100
Supply Chain and Logistics: Production planning methods	3	67	67	0.0	67
Supply Chain and Logistics: Engineering economics	3	67	67	0.0	67
Supply Chain and Logistics: Costing systems	2	50	50	0.0	50
Supply Chain and Logistics: Production scheduling methods	1	0	0	0.0	0
Supply Chain and Logistics: Inventory management and control	1	100	100	0.0	100
Supply Chain and Logistics: Distribution methods	3	33	33	0.0	33
Supply Chain and Logistics: Storage and warehousing methods	1	0	0	0.0	0
Work Design: Motion economy rules	2	50	50	0.0	50
Work Design: Line balancing	1	100	100	0.0	100
Work Design: Work measurement systems techniques	2	100	100	0.0	100
Work Design: Time study techniques	1	100	100	0.0	100
Work Design: Sample size calculations	1	100	100	0.0	100
Work Design: Work sampling analysis	1	0	0	0.0	0
Work Design: Safety codes; standards; and voluntary guidelines	1	100	100	0.0	100
Work Design: Limits of human capacity	3	33	33	0.0	33
Work Design: Workplace design/human-computer interaction	4	25	25	0.0	25
Quality Engineering: Statistical process control	2	0	0	0.0	0
Quality Engineering: Process capability analysis	3	67	67	0.0	67
Quality Engineering: Acceptance sampling	1	100	100	0.0	100
Quality Engineering: Continuous improvement methods	1	100	100	0.0	100
Quality Engineering: Techniques for process improvement	2	50	50	0.0	50
Quality Engineering: Reliability analysis	7	57	57	0.0	57

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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: Major	71 Mining/Mineral	School Code: PM Exam 7101 PE - Civil - Water Resources and Environmental

	*Institution	National	Carnegie Comparator
Examinees Taking	1	1	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0

	# 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	63	63	0.0	63
Geotechnical	8	50	50	0.0	50
Structural	8	38	38	0.0	38
Transportation	8	75	75	0.0	75
Water Resources & Environmental	8	50	50	0.0	50

PM Subject

Hydraulics -- Closed Conduit	6	100	100	0.0	100
Hydraulics -- Open Channel	6	33	33	0.0	33
Hydrology	6	83	83	0.0	83
Groundwater and Well Fields	3	67	67	0.0	67
Wastewater Treatment	6	33	33	0.0	33
Water Quality	6	50	50	0.0	50
Water Treatment	6	67	67	0.0	67
Engineering Economics	1	0	0	0.0	0

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