

NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	33	9
Examinees Passing	1	20	7
Examinees Passing %	100	61	78

# 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	75	1.4	68
Geotechnical	8	50	54	1.4	54
Structural	8	75	81	1.3	79
Transportation	8	38	71	1.9	63
Water Resources & Environmental	8	100	74	1.7	78

PM Subject

Hydraulics -- Closed Conduit	6	67	60	1.2	61
Hydraulics -- Open Channel	6	100	69	1.6	76
Hydrology	6	50	64	1.3	69
Groundwater and Well Fields	3	67	58	0.8	59
Wastewater Treatment	6	33	59	1.5	54
Water Quality	6	50	70	1.3	65
Water Treatment	6	100	60	1.4	63
Engineering Economics	1	100	76	0.4	56

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

	*Institution	National	Carnegie Comparator
Examinees Taking	9	833	198
Examinees Passing	6	331	94
Examinees Passing %	67	40	47
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	74	76	1.3	79
Geotechnical	8	63	59	1.5	60
Structural	8	88	79	1.4	78
Transportation	8	67	73	1.7	73
Water Resources & Environmental	8	58	60	1.6	62

PM Subject

Earthwork Construction & Layout	4	56	58	1.1	61
Estimating Quantities & Costs	7	62	64	1.4	68
Construction Operations & Methods	6	44	45	1.3	47
Scheduling	7	67	70	1.5	72
Material Quality Control & Production	4	67	66	1.0	68
Temporary Structures	5	58	62	1.1	63
Worker - Health & Safety & Environment	3	74	71	0.8	73
Other Topics	4	58	51	1.0	51

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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	2	62	20
Examinees Passing	0	23	10
Examinees Passing %	0	37	50
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	38	38	1.1	45
Water: Wastewater	10	45	48	1.7	49
Water: Stormwater	4	38	63	0.9	61
Water: Potable Water	10	35	49	1.9	51
Water: Water Resources	4	13	38	1.0	35
Solid Waste: Basic Principles	4	50	56	1.1	58
Solid Waste: Municipal and Industrial Solid Waste	5	40	58	1.2	54
Solid Waste: Hazardous Waste	6	42	59	1.0	58
Solid Waste: Medical; Radioactive; Other Waste	3	17	28	0.7	30
Air: Basic Principles	7	79	66	1.4	73
Air: Pollution Control	16	69	53	2.1	56
Site Assessment and Remediation: Basic Principles	5	40	48	1.2	48
Site Assessment and Remediation: Site Assessment	3	33	58	1.0	62
Site Assessment and Remediation: Remediation	4	88	75	0.9	75
Environmental Health and Safety	8	63	70	1.4	73
Associated Engineering Principles	7	57	63	1.6	68

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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 - Geotechnical
Board Code: Major	71 Civil		

	*Institution	National	Carnegie Comparator
Examinees Taking	3	401	73
Examinees Passing	0	188	40
Examinees Passing %	0	47	55

	# 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	58	72	1.5	75
Geotechnical	8	67	67	1.6	70
Structural	8	71	79	1.3	80
Transportation	8	50	71	1.8	72
Water Resources & Environmental	8	58	60	1.7	64

PM Subject

Subsurface Exploration & Sampling	3	67	69	0.8	72
Engineering Properties of Soils & Materials	5	73	71	1.0	75
Soil Mechanics Analysis	5	47	56	1.2	62
Earthquake Engineering	2	83	79	0.6	83
Earth Structures	4	50	45	0.9	42
Shallow Foundations	6	56	58	1.3	59
Earth Retaining Structures Including Temporary Structures	7	43	57	1.4	59
Deep Foundations	4	42	50	1.1	52
Other Topics	4	58	63	0.9	68

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	665	153
Examinees Passing	1	458	112
Examinees Passing %	100	69	73

	# 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	81	1.2	81
Geotechnical	8	88	71	1.5	73
Structural	8	100	90	1.0	91
Transportation	8	100	80	1.5	81
Water Resources & Environmental	8	100	67	1.7	68

PM Subject

Loadings	5	40	59	1.4	58
Analysis	5	40	61	1.3	64
Mechanics of Materials	5	80	67	1.0	69
Materials	5	100	70	1.1	72
Member Design	10	50	52	2.0	53
Design Criteria	5	80	68	1.0	70
Other Topics	5	40	48	1.2	51

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

	*Institution	National	Carnegie Comparator
Examinees Taking	15	1,591	455
Examinees Passing	8	780	270
Examinees Passing %	53	49	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	77	71	1.4	74
Geotechnical	8	65	56	1.5	58
Structural	8	76	75	1.4	77
Transportation	8	83	78	1.5	82
Water Resources & Environmental	8	62	62	1.6	65

PM Subject

Traffic Analysis	9	73	73	1.6	75
Geometric Design	12	72	69	2.2	71
Transportation Planning	3	53	52	0.8	55
Traffic Safety	6	59	58	1.5	60
Other Topics	10	69	67	1.8	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 - Civil - Water Resources and
Major	Civil	Environmental	

	*Institution	National	Carnegie Comparator
Examinees Taking	6	1,016	283
Examinees Passing	5	575	188
Examinees Passing %	83	57	66

# 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	73	75	1.4	77
Geotechnical	8	58	57	1.5	60
Structural	8	79	78	1.4	80
Transportation	8	85	75	1.6	78
Water Resources & Environmental	8	60	71	1.6	75

PM Subject

Hydraulics -- Closed Conduit	6	69	56	1.4	61
Hydraulics -- Open Channel	6	58	64	1.4	68
Hydrology	6	67	62	1.3	64
Groundwater and Well Fields	3	78	63	0.9	66
Wastewater Treatment	6	61	51	1.5	53
Water Quality	6	69	63	1.3	66
Water Treatment	6	56	61	1.3	63
Engineering Economics	1	67	78	0.4	83

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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: Power

	*Institution	National	Carnegie Comparator
Examinees Taking	8	1,010	257
Examinees Passing	5	496	137
Examinees Passing %	63	49	53

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

General Power Engineering: Measurement & Instrumentation	6	62	49	1.3	51
General Power Engineering: Special Applications	8	67	65	1.6	66
General Power Engineering: Codes & Standards	10	70	69	1.7	70
Circuit Analysis: Analysis	9	65	60	1.7	61
Circuit Analysis: Devices & Power Electronic Circuits	7	55	54	1.4	55
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	65	59	1.8	61
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	71	67	1.4	69
Transmissions & Distribution: System Analysis	10	63	63	2.0	64
Transmissions & Distribution: Power System Performance	6	52	52	1.4	52
Transmissions & Distribution: Protection	8	59	58	1.6	58

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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 - Environmental
Board Code: Major	71 Materials		

	*Institution	National	Carnegie Comparator
Examinees Taking	1	2	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 ***

Subject

Water: Basic Principles	4	50	50	0.0	50
Water: Wastewater	10	60	40	2.8	60
Water: Stormwater	4	75	88	0.7	75
Water: Potable Water	10	60	30	4.2	60
Water: Water Resources	4	25	38	0.7	25
Solid Waste: Basic Principles	4	50	63	0.7	50
Solid Waste: Municipal and Industrial Solid Waste	5	60	50	0.7	60
Solid Waste: Hazardous Waste	6	50	67	1.4	50
Solid Waste: Medical; Radioactive; Other Waste	3	33	33	0.0	33
Air: Basic Principles	7	29	36	0.7	29
Air: Pollution Control	16	50	53	0.7	50
Site Assessment and Remediation: Basic Principles	5	60	50	0.7	60
Site Assessment and Remediation: Site Assessment	3	67	67	0.0	67
Site Assessment and Remediation: Remediation	4	75	75	0.0	75
Environmental Health and Safety	8	75	69	0.7	75
Associated Engineering Principles	7	43	36	0.7	43

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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	15	4
Examinees Passing	1	10	4
Examinees Passing %	100	67	100

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

Foundation Topics: Statistics	4	100	58	1.2	69
Foundation Topics: Physical-Engineering Sciences	9	22	35	1.0	28
Foundation Topics: Mechanics of Materials	4	50	50	0.9	63
Foundation Topics: Process Fundamentals	9	44	44	1.8	44
Structure & Properties: Structure-Phase-Transformations	8	38	61	1.6	66
Structure & Properties: Mechanical Properties of Metals & Materials	8	75	64	1.5	69
Structure & Properties: Applications & Specifications of Metal & Materials Selection	8	63	78	1.3	75
Processing: Heat Treatments	6	83	61	1.2	67
Processing: Surface Modification	4	50	68	1.0	69
Processing: Forming & Fabrication	7	86	66	1.4	86
Performance: A Material Testing	6	67	67	1.3	62
Performance: Material Degradation	6	50	61	0.7	62
Performance: Waste Process Control & Environmental Impact	1	0	7	0.3	0

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

	*Institution	National	Carnegie Comparator
Examinees Taking	1	68	16
Examinees Passing	0	38	13
Examinees Passing %	0	56	81

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

Fire Protection Analysis: Types of Analysis	10	70	68	2.0	79
Fire Protection Analysis: Information Sources for Analysis	6	50	74	1.1	80
Fire Protection Management	8	63	76	1.3	77
Fire Science & Human Behavior: Fire Dynamics	8	88	74	1.6	82
Fire Science & Human Behavior: Human Response	4	25	67	1.1	75
Fire Protection Systems: Water-Based Fire Suppression Systems	10	60	63	1.8	66
Fire Protection Systems: Special Hazard Systems	4	50	63	0.9	64
Fire Protection Systems: Fire Detection & Alarm Systems	7	57	72	1.5	81
Fire Protection Systems: Smoke Management Systems	4	100	78	1.0	84
Fire Protection Systems: Explosion Protection & Prevention Systems	3	33	41	0.8	50
Passive Building Systems: Building Construction	9	67	63	1.9	70
Passive Building Systems: Means of Egress	7	71	65	1.8	80

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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 - Mechanical - HVAC and
Major	Mechanical	Refrigeration	

	*Institution	National	Carnegie Comparator
Examinees Taking	1	460	128
Examinees Passing	1	348	96
Examinees Passing %	100	76	75

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

Basic Engineering Practice	12	67	69	1.8	68
Mechanical Systems & Materials: Principles	5	40	54	1.3	51
Mechanical Systems & Materials: Applications	3	0	52	0.9	53
Hydraulics & Fluids: Principles	3	67	70	0.8	71
Hydraulics & Fluids: Applications	4	75	82	0.8	81
Energy & Power Systems: Principles	3	100	76	0.8	76
Energy & Power Systems: Applications	3	0	62	1.0	62
HVAC & Refrigeration: Principles	4	50	83	0.9	82
HVAC & Refrigeration: Applications	3	67	68	0.9	70

PM Subject

Principles: Thermodynamics	3	33	72	0.8	71
Principles: Psychrometrics	6	100	65	1.4	62
Principles: Heat Transfer	5	40	69	1.2	66
Principles: Fluid Mechanics	3	100	63	0.8	64
Principles: Compressible Flow	1	0	52	0.5	52
Principles: Energy Balances	4	50	66	1.1	65
Applications: Equipment and Components	8	75	66	1.8	64
Applications: Systems	7	43	59	1.7	61
Applications: Supportive Knowledges	3	67	71	0.8	73

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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 - Mechanical - Mechanical Systems
Major	Mechanical	and Materials	

	*Institution	National	Carnegie Comparator
Examinees Taking	1	462	111
Examinees Passing	1	269	65
Examinees Passing %	100	58	59
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	83	74	1.9	73
Mechanical Systems & Materials: Principles	5	60	69	1.2	72
Mechanical Systems & Materials: Applications	3	100	67	0.8	68
Hydraulics & Fluids: Principles	3	67	71	0.8	75
Hydraulics & Fluids: Applications	4	100	77	0.9	76
Energy & Power Systems: Principles	3	100	79	0.8	77
Energy & Power Systems: Applications	3	33	57	1.0	56
HVAC & Refrigeration: Principles	4	50	68	1.1	68
HVAC & Refrigeration: Applications	3	0	54	0.9	54

PM Subject

Principles: Statics (free-body diagrams)	6	67	55	1.6	54
Principles: Kinematics (linear & rotational motion)	3	67	58	0.7	58
Principles: Dynamics (particle & rigid body)	4	75	53	1.2	53
Principles: Materials Properties (physical)	4	100	69	0.9	66
Principles: Strength of Materials (stress & strain)	7	71	50	1.6	52
Applications: Mechanical Components	4	75	58	1.0	56
Applications: Joints & Fasteners	4	75	50	1.1	52
Applications: Vibration & Dynamic Analysis	4	75	39	1.2	40
Applications: Materials & Process	4	75	56	1.0	54

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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 - Mechanical - Thermal and Fluids
Major	Mechanical	Systems	

	*Institution	National	Carnegie Comparator
Examinees Taking	1	402	120
Examinees Passing	0	252	82
Examinees Passing %	0	63	68

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

Basic Engineering Practice	12	75	69	1.9	71
Mechanical Systems & Materials: Principles	5	40	57	1.4	62
Mechanical Systems & Materials: Applications	3	33	59	0.9	64
Hydraulics & Fluids: Principles	3	100	75	0.8	77
Hydraulics & Fluids: Applications	4	50	84	0.8	85
Energy & Power Systems: Principles	3	100	84	0.8	84
Energy & Power Systems: Applications	3	100	69	1.0	69
HVAC & Refrigeration: Principles	4	75	75	1.1	78
HVAC & Refrigeration: Applications	3	67	66	0.9	68

PM Subject

Principles: Materials Properties (density)	2	50	64	0.6	64
Principles: Fluid Mechanics	4	25	45	1.0	47
Principles: Heat Transfer Principles (convection)	4	25	50	0.9	49
Principles: Mass Balance Principles (evaporation)	3	33	48	0.9	47
Principles: Thermodynamics	4	25	54	1.2	54
Principles: Related Principles	1	100	42	0.5	43
Applications: Equipment	7	29	67	1.5	68
Applications: Systems	13	31	57	2.3	61
Applications: Codes & Standards	2	100	75	0.6	81

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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

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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	Mining/Mineral	PM Exam	PE - Mining and Mineral Processing

	*Institution	National	Carnegie Comparator		
Examinees Taking	8	47	29		
Examinees Passing	4	37	22		
Examinees Passing %	50	79	76		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Exploration: Apply exploration methods & techniques	3	71	63	0.8	62
Exploration: Characterize site geologic & geotechnical conditions	3	54	59	0.9	59
Exploration: Estimate & characterize & evaluate resource reserves	4	59	72	1.0	70
Mine Planning & Operations: Plan & design & implement mining methods and layouts	8	73	76	1.2	76
Mine Planning & Operations: Plan & design & select and-or construct mine equipment and facilities and systems	13	68	71	1.9	71
Mine Planning & Operations: Evaluate & design ground control	7	61	66	1.2	67
Mine Planning & Operations: Operate & manage mines & systems	4	50	59	0.8	58
Mineral Processing: Perform laboratory & pilot testing and analysis	4	38	49	1.0	47
Mineral Processing: Design & evaluate process flow sheets	9	60	73	1.5	74
Mineral Processing: Plan & design & select and-or construct plant equipment and facilities and systems	7	61	68	1.2	67
Mineral Processing: Operate & manage plants & facilities	4	50	60	1.0	63
Environment & Reclamation: Characterize site & mining & process environment	4	63	63	1.0	63
Environment & Reclamation: Plan & design to mitigate exploration & mining & processing impacts	5	68	69	1.1	69
Environment & Reclamation: Operate & manage environmental & reclamation plan	3	62	82	0.7	80
Environment & Reclamation: Close & reclaim the site	2	63	72	0.7	71

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