

NCEES
Principles and Practice of Engineering Examination
ABET - Accredited Programs

Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	University of Kentucky, Lexington		
Board Code:	71	School Code:	7101		
Major:	Agricultural	PM Exam:	Civil-Water Resources_Environmental		
	*Institution	National	Carnegie Comparator		
Examinees Taking	1	52	19		
Examinees Passing	0	36	11		
Examinees Passing %	0	69	58		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	38	65	1.3	61
Breadth - Geotechnical	8	62	56	1.6	53
Breadth - Structural	8	25	62	1.6	57
Breadth - Transportation	8	88	66	1.6	61
Breadth - Water Resources and Environmental	8	75	86	1.4	87
Hydraulics - Closed Conduit	6	83	76	1.1	72
Hydraulics - Open Channel	6	67	72	1.1	72
Hydrology	6	50	76	1.4	69
Groundwater and Well Fields	3	67	74	0.9	74
Wastewater Treatment	6	50	79	1.2	81
Water Quality	6	50	75	1.4	73
Water Treatment	6	67	66	1.1	66
Engineering Economics	1	0	58	0.5	63

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Subject Matter Report by Major and PM Examination				
Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Chemical	PM Exam:	Environmental	
	*Institution	National	Carnegie Comparator	

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Examinees Taking	1	82	29		
Examinees Passing	0	50	23		
Examinees Passing %	0	61	79		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Wastewater	11	27	62	1.9	64
Storm Water	6	50	40	1.2	39
Potable Water	11	73	71	1.6	74
Water Resources	6	67	49	1.2	54
Ambient Air	8	50	61	1.6	62
Emissions Sources	4	50	45	1.2	45
Control Strategies	8	50	54	1.6	54
Municipal Solid Waste (MSW), Commercial, and Ind.	10	60	70	1.7	72
Hazardous Waste, Special, and Radioactive Waste	10	80	69	1.8	72
Environmental Assessments	7	57	66	1.4	78
Remediation	9	22	56	1.9	55
Public Health and Safety	10	70	74	1.9	80

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Board:	Kentucky	Institution:	University of Kentucky, Lexington		
Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	Civil-Construction		
	*Institution	National	Carnegie Comparator		
Examinees Taking	9	1,051	270		
Examinees Passing	4	423	121		
Examinees Passing %	44	40	45		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	75	70	1.4	73
Breadth - Geotechnical	8	51	56	1.6	57
Breadth - Structural	8	69	70	1.5	71
Breadth - Transportation	8	67	66	1.5	67
Breadth - Water Resources and Environmental	8	75	69	1.5	70
Earthwork Construction and Layout	4	53	52	1.0	54
Estimating Quantities and Costs	7	46	51	1.4	53
Construction Operations and Methods	6	54	49	1.1	51
Scheduling	7	78	67	1.3	70
Material Quality Control and Production	4	56	46	1.0	50
Temporary Structures	5	44	36	1.1	38
Worker Health, Safety, and Environment	3	71	62	0.9	66
Other Topics	4	22	32	0.9	33

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Board:	Kentucky	Institution:	University of Kentucky, Lexington		
Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	Civil-Geotechnical		
	*Institution	National	Carnegie Comparator		
Examinees Taking	6	650	161		
Examinees Passing	3	334	90		
Examinees Passing %	50	51	56		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	73	70	1.4	70
Breadth - Geotechnical	8	84	68	1.6	71
Breadth - Structural	8	94	70	1.6	74
Breadth - Transportation	8	71	66	1.6	70
Breadth - Water Resources and Environmental	8	73	72	1.6	74
Subsurface Exploration & Sampling	3	89	77	0.8	81
Engineering Properties of Soils and Materials	5	77	84	0.9	85
Soil Mechanics Analysis	5	57	62	1.2	64
Earthquake Engineering	2	58	63	0.7	66
Earth Structures	4	71	52	0.9	54
Shallow Foundations	6	67	62	1.3	65
Earth Retaining Structures	6	56	61	1.2	62
Deep Foundations	4	75	62	1.2	66
Other Topics	5	60	58	1.1	62

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Major:	Civil	PM Exam:	Civil-Structural	
	*Institution	National	Carnegie Comparator	

	3	638			
Examinees Taking	2	399			
Examinees Passing	67	63			
Examinees Passing %	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	75	77	1.4	76
Breadth - Geotechnical	8	46	67	1.6	68
Breadth - Structural	8	88	82	1.2	83
Breadth - Transportation	8	83	70	1.6	70
Breadth - Water Resources and Environmental	8	79	74	1.6	77
Loadings	5	27	50	1.3	50
Analysis	5	73	74	1.2	76
Mechanics of Materials	5	60	60	1.1	62
Materials	5	87	67	1.1	68
Member Design	10	57	61	1.9	60
Design Criteria	5	53	64	1.2	66
Other Topics	5	47	61	1.3	64

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Board Code:	71	School Code:	7101	
Major:	Civil	PM Exam:	Civil-Transportation	
	*Institution	National	Carnegie Comparator	

	20	2,053	602		
Examinees Taking	10	1,019	332		
Examinees Passing	50	50	55		
Examinees Passing %	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	73	70	1.4	71
Breadth - Geotechnical	8	63	56	1.5	58
Breadth - Structural	8	59	64	1.6	65
Breadth - Transportation	8	72	73	1.5	75
Breadth - Water Resources and Environmental	8	79	73	1.6	74
Traffic Analysis	9	72	70	1.6	72
Geometric Design	12	74	69	2.1	71
Transportation Planning	3	53	50	0.9	53
Traffic Safety	6	66	55	1.4	58
Other Topics	10	62	61	2.0	64

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Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	Civil-Water Resources_Environmental		
	*Institution	National	Carnegie Comparator		
Examinees Taking	10	1,214	336		
Examinees Passing	6	715	214		
Examinees Passing %	60	59	64		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	71	69	1.4	69
Breadth - Geotechnical	8	61	56	1.6	56
Breadth - Structural	8	56	64	1.6	66
Breadth - Transportation	8	66	66	1.6	67
Breadth - Water Resources and Environmental	8	85	81	1.5	82
Hydraulics - Closed Conduit	6	72	67	1.3	68
Hydraulics - Open Channel	6	77	72	1.3	74
Hydrology	6	62	64	1.5	66
Groundwater and Well Fields	3	60	65	0.9	64
Wastewater Treatment	6	66	73	1.3	74
Water Quality	6	72	69	1.3	71
Water Treatment	6	60	61	1.2	63
Engineering Economics	1	70	44	0.5	50

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Electrical	PM Exam:	Civil-Transportation	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1	15	5		
Examinees Passing	0	3	2		
Examinees Passing %	0	20	40		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	88	60	1.6	72
Breadth - Geotechnical	8	50	46	1.0	53
Breadth - Structural	8	88	54	2.0	73
Breadth - Transportation	8	75	61	2.0	75
Breadth - Water Resources and Environmental	8	62	59	1.7	78
Traffic Analysis	9	44	56	2.3	67
Geometric Design	12	50	54	2.2	62
Transportation Planning	3	33	20	0.6	27
Traffic Safety	6	17	46	1.8	60
Other Topics	10	50	49	2.0	56

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Electrical	PM Exam:	Electrical & Computer-Computer	
	*Institution	National	Carnegie Comparator	

Examinees Taking	1		45		14
Examinees Passing	1		25		9
Examinees Passing %	100		56		64
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Computer System	32	84	64	6.4	66
Hardware	20	90	63	4.1	68
Software	20	60	62	3.5	58
Networks	8	62	61	2.0	58

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Board Code:	71	School Code:	7101	
Major:	Electrical	PM Exam:	Electrical & Computer-Power	
	*Institution	National	Carnegie Comparator	

Examinees Taking	7	996	291		
Examinees Passing	5	498	164		
Examinees Passing %	71	50	56		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
General Power Engineering	24	74	71	3.2	73
Circuit Analysis	16	65	62	2.9	63
Rotating Machines & Electromagnetic Devices	16	66	65	2.6	67
Transmission & Distribution	24	74	64	3.9	67

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Board:	Kentucky	Institution:	University of Kentucky, Lexington	
Board Code:	71	School Code:	7101	
Major:	Mechanical	PM Exam:	Mechanical-HVAC and Refrigeration	
	*Institution	National	Carnegie Comparator	

	1	485	143		
Examinees Taking	1	324	100		
Examinees Passing	100	67	70		
Examinees Passing %	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Basic Engineering Practice	12	75	70	1.7	71
Breadth - Mechanical System and Materials	8	88	65	1.6	68
Breadth - Hydraulics and Fluids	7	86	74	1.6	73
Breadth - Energy and Power Systems	6	67	54	1.6	53
Breadth - HVAC and Refrigeration	7	43	78	1.5	76
HVAC - Thermodynamics	3	67	76	0.8	77
HVAC - Psychrometrics	6	50	60	1.3	59
HVAC - Heat Transfer	5	40	52	1.1	53
HVAC - Fluid Mechanics	3	33	46	0.9	49
HVAC - Compressible Flow	1	100	69	0.5	69
HVAC - Energy Balances	4	0	38	1.0	40
HVAC - Equipment and Components	8	88	73	1.4	74
HVAC - Systems	7	57	62	1.5	61
HVAC - Supportive Knowledge	3	0	59	0.8	60

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Board Code:	71	School Code:	7101		
Major:	Mechanical	PM Exam:	Mechanical-Thermal & Fluids Systems		
	*Institution	National	Carnegie Comparator		
Examinees Taking	1	482	145		
Examinees Passing	1	307	100		
Examinees Passing %	100	64	69		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Basic Engineering Practice	12	92	72	1.9	73
Breadth - Mechanical Systems and Materials	8	100	69	1.6	73
Breadth - Hydraulics and Fluids	7	100	82	1.4	85
Breadth - Energy and Power Systems	6	100	63	1.6	66
Breadth - HVAC and Refrigeration	7	100	63	1.7	65
T&FS - Materials Properties	2	100	54	0.6	56
T&FS - Fluid Mechanics	4	100	79	0.9	80
T&FS - Heat Transfer Principles	4	75	62	1.0	63
T&FS - Mass Balance Principles	3	100	48	0.9	53
T&FS - Thermodynamics	4	75	42	1.1	42
T&FS - Related Principles	1	100	58	0.5	63
T&FS - Equipment	7	86	64	1.6	67
T&FS - Systems	13	85	37	2.2	39
T&FS - Codes and Standards	2	100	69	0.7	76

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Major:	Mining/Mineral	PM Exam:	Civil-Water Resources_Environmental		
	*Institution	National	Carnegie Comparator		
Examinees Taking	1	3	3		
Examinees Passing	0	1	1		
Examinees Passing %	0	33	33		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
Breadth - Construction	8	50	67	2.3	67
Breadth - Geotechnical	8	25	50	2.6	50
Breadth - Structural	8	25	62	3.0	62
Breadth - Transportation	8	38	59	2.1	59
Breadth - Water Resources and Environmental	8	38	75	2.6	75
Hydraulics - Closed Conduit	6	33	61	2.1	61
Hydraulics - Open Channel	6	50	78	1.5	78
Hydrology	6	17	61	2.3	61
Groundwater and Well Fields	3	33	55	1.2	55
Wastewater Treatment	6	50	67	1.0	67
Water Quality	6	17	50	2.0	50
Water Treatment	6	0	55	2.9	55
Engineering Economics	1	0	0	0.0	0

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