



National Council of Examiners for Engineering and Surveying  
Principles and Practice of Engineering Examination  
ABET - Accredited Programs

200804

6/23/2008

Graduate of	<b>Engineering</b>					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Agricultural</b>	PM Exam:	<b>Chemical</b>			
	*Institution		National		Comparator Groupings	

Examinees Taking	1	1	1	0	0
Examinees Passing	0	0	0	0	0
Examinees Passing %	0	0	0	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Mass/Energy: Mass Balances	9	11	11	0.0	11	0	0
Mass/Energy: Energy Balances & Thermo	10	50	50	0.0	50	0	0
Fluids: Fluid Transport	2	50	50	0.0	50	0	0
Fluids: Mech-Energy Balance	9	22	22	0.0	22	0	0
Fluids: Flow Measurement	3	33	33	0.0	33	0	0
Heat Transfer: Mechanisms	4	25	25	0.0	25	0	0
Heat Transfer: Applications	9	33	33	0.0	33	0	0
Mass Transfer: Phase Equilibria	4	75	75	0.0	75	0	0
Mass Transfer Contactors (Absorption-etc)	5	20	20	0.0	20	0	0
Mass Transfer: Miscellaneous Separation Processes	1	0	0	0.0	0	0	0
Kinetics: Reaction Parameters	2	50	50	0.0	50	0	0
Kinetics: Reaction Rate	2	0	0	0.0	0	0	0
Kinetics: Reactor Design & Evaluation	3	33	33	0.0	33	0	0
Kinetics: Heterogenous Reaction Systems	2	0	0	0.0	0	0	0
Plant Design/Operation: Economic Considerations	2	50	50	0.0	50	0	0
Plant Design/Operation: Design & Operations	4	25	25	0.0	25	0	0
Plant Design/Operation: Safety	3	67	67	0.0	67	0	0
Plant Design/Operation: Environmental	2	50	50	0.0	50	0	0
Plant Design/Operation: Materials	2	0	0	0.0	0	0	0
Plant Design/Operation: Process Control	2	0	0	0.0	0	0	0

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

\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Agricultural</b>	PM Exam:	<b>Civil-Water Resources_Environmental</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	1	41	34	3	3		
Examinees Passing	1	25	20	2	3		
Examinees Passing %	100	61	59	67	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	62	72	1.4	71	83	83
Breadth - Geotechnical	8	50	56	1.5	57	67	38
Breadth - Structural	8	50	67	1.5	66	67	83
Breadth - Transportation	8	62	70	1.5	70	79	75
Breadth - Water Resources and Environmental	8	100	78	1.5	80	84	71
Hydraulics - Closed Conduit	6	100	80	0.9	81	72	83
Hydraulics - Open Channel	6	100	70	1.1	71	78	56
Hydrology	6	100	77	1.1	76	83	83
Groundwater and Well Fields	3	100	63	1.0	62	44	89
Wastewater Treatment	6	67	68	1.4	66	72	89
Water Quality	6	83	72	1.1	72	72	78
Water Treatment	6	83	64	1.0	64	67	56
Engineering Economics	1	0	39	0.5	41	33	0

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Board Code:	71	School Code:	7101			
Major:	<b>Agricultural</b>	PM Exam:	<b>Environmental</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	1	10	10	0	0		
Examinees Passing	0	5	5	0	0		
Examinees Passing %	0	50	50	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Wastewater	11	45	55	1.7	55	0	0
Storm Water	6	33	48	1.7	48	0	0
Potable Water	11	55	52	2.5	52	0	0
Water Resources	6	33	38	1.6	38	0	0
Ambient Air	9	33	46	1.4	46	0	0
Emissions Sources	3	0	43	0.9	43	0	0
Control Strategies	8	25	49	1.7	49	0	0
Municipal Solid Waste (MSW), Commercial, and Ind.	10	40	67	2.1	67	0	0
Hazardous Waste, Special, and Radioactive Waste	10	60	60	0.9	60	0	0
Environmental Assessments	8	38	58	1.7	58	0	0
Remediation	8	38	54	1.2	54	0	0
Public Health and Safety	10	60	60	1.6	60	0	0

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Major:	<b>Chemical</b>	PM Exam:	<b>Chemical</b>				
	*Institution		National		Comparator Groupings		

Examinees Taking	1	217	125	24	48
Examinees Passing	1	131	86	14	15
Examinees Passing %	100	60	69	58	31

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Mass/Energy: Mass Balances	9	67	61	2.0	63	61	55
Mass/Energy: Energy Balances & Thermo	10	80	56	1.9	58	54	50
Fluids: Fluid Transport	2	50	76	0.6	80	77	62
Fluids: Mech-Energy Balance	9	67	62	1.8	67	62	50
Fluids: Flow Measurement	3	67	46	0.8	48	51	38
Heat Transfer: Mechanisms	4	75	60	1.1	64	58	47
Heat Transfer: Applications	9	33	55	2.1	58	60	45
Mass Transfer: Phase Equilibria	4	100	58	1.0	61	54	51
Mass Transfer Contactors (Absorption-etc)	5	80	53	1.4	57	53	40
Mass Transfer: Miscellaneous Separation Processes	1	100	60	0.5	61	83	48
Kinetics: Reaction Parameters	2	100	79	0.6	80	75	75
Kinetics: Reaction Rate	2	50	38	0.7	43	40	26
Kinetics: Reactor Design & Evaluation	3	100	74	0.9	77	68	65
Kinetics: Heterogenous Reaction Systems	2	0	41	0.7	45	35	33
Plant Design/Operation: Economic Considerations	2	0	60	0.8	62	60	52
Plant Design/Operation: Design & Operations	4	25	62	1.0	65	59	55
Plant Design/Operation: Safety	3	33	60	0.8	60	60	58
Plant Design/Operation: Environmental	2	100	75	0.6	75	88	71
Plant Design/Operation: Materials	2	100	51	0.7	49	56	52
Plant Design/Operation: Process Control	2	50	42	0.7	46	38	29

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Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Construction</b>				
	*Institution		National		Comparator Groupings		

Examinees Taking	6	680	314	101	198		
Examinees Passing	3	221	134	32	36		
Examinees Passing %	50	32	43	32	18		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	81	74	1.4	77	75	70
Breadth - Geotechnical	8	65	60	1.5	61	62	55
Breadth - Structural	8	71	68	1.8	73	66	62
Breadth - Transportation	8	77	67	1.8	70	69	61
Breadth - Water Resources and Environmental	8	65	68	1.7	72	70	63
Earthwork Construction and Layout	4	58	48	1.0	50	50	45
Estimating Quantities and Costs	7	55	55	1.3	58	55	51
Construction Operations and Methods	6	64	59	1.1	60	59	56
Scheduling	7	78	61	1.5	64	61	56
Material Quality Control and Production	4	54	40	1.0	43	45	34
Temporary Structures	5	47	34	1.1	36	35	32
Worker Health, Safety, and Environment	3	56	41	0.8	45	40	35
Other Topics	4	42	40	1.0	42	39	38

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Board Code:	71	School Code:	7101				
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Geotechnical</b>				
	*Institution		National		Comparator Groupings		

	2	512	240	79	133		
Examinees Taking	2	512	240	79	133		
Examinees Passing	0	224	122	33	46		
Examinees Passing %	0	44	51	42	35		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	62	70	1.6	70	75	68
Breadth - Geotechnical	8	56	69	1.6	71	73	64
Breadth - Structural	8	88	76	1.6	79	74	73
Breadth - Transportation	8	62	72	1.7	75	69	69
Breadth - Water Resources and Environmental	8	62	74	1.6	76	72	71
Subsurface Exploration & Sampling	3	84	62	0.9	63	63	59
Engineering Properties of Soils and Materials	5	60	66	1.2	69	70	61
Soil Mechanics Analysis	5	50	48	1.1	51	49	45
Earthquake Engineering	2	100	49	0.7	49	53	46
Earth Structures	4	50	59	1.0	61	61	55
Shallow Foundations	6	83	67	1.4	72	69	60
Earth Retaining Structures	6	25	52	1.5	56	50	49
Deep Foundations	4	88	67	1.0	70	67	64
Other Topics	5	70	71	1.1	72	71	67

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Board Code:	71	School Code:	7101				
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Structural</b>				
	*Institution	National	Comparator Groupings				

	4	562	336	75	114		
Examinees Taking	4	562	336	75	114		
Examinees Passing	3	372	247	41	58		
Examinees Passing %	75	66	74	55	51		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	91	81	1.4	83	76	76
Breadth - Geotechnical	8	78	67	1.5	69	66	62
Breadth - Structural	8	97	89	1.2	91	88	87
Breadth - Transportation	8	88	77	1.6	80	70	73
Breadth - Water Resources and Environmental	8	91	77	1.6	80	71	72
Loadings	5	75	64	1.2	67	57	61
Analysis	5	90	67	1.3	69	61	65
Mechanics of Materials	5	85	73	1.1	75	71	67
Materials	5	75	71	1.0	73	66	68
Member Design	10	70	55	1.8	56	49	54
Design Criteria	5	65	62	1.2	65	58	56
Other Topics	5	80	67	1.1	68	62	66

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Board Code:	71	School Code:	7101			
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Transportation</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	29	2,180	1,252	347	491		
Examinees Passing	17	1,041	679	152	172		
Examinees Passing %	59	48	54	44	35		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	80	72	1.4	73	71	68
Breadth - Geotechnical	8	60	56	1.5	58	57	53
Breadth - Structural	8	72	68	1.7	69	66	66
Breadth - Transportation	8	84	80	1.4	81	79	77
Breadth - Water Resources and Environmental	8	75	72	1.6	74	72	69
Traffic Analysis	9	66	63	1.7	65	63	58
Geometric Design	12	74	73	2.1	75	71	69
Transportation Planning	3	49	54	0.8	56	53	50
Traffic Safety	6	63	59	1.3	61	59	55
Other Topics	10	58	61	1.9	63	61	58

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Board Code:	71	School Code:	7101				
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Water Resources_Environmental</b>				
	*Institution		National	Comparator Groupings			

	9	1,465	771	244	363		
Examinees Taking	9	1,465	771	244	363		
Examinees Passing	5	775	487	113	132		
Examinees Passing %	56	53	63	46	36		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	75	69	1.5	72	67	64
Breadth - Geotechnical	8	60	56	1.6	58	55	53
Breadth - Structural	8	68	67	1.7	70	62	64
Breadth - Transportation	8	72	71	1.7	74	69	67
Breadth - Water Resources and Environmental	8	81	80	1.4	83	78	75
Hydraulics - Closed Conduit	6	76	77	1.2	80	77	72
Hydraulics - Open Channel	6	72	72	1.1	74	73	68
Hydrology	6	71	72	1.3	75	71	68
Groundwater and Well Fields	3	70	65	0.9	67	63	61
Wastewater Treatment	6	59	57	1.6	62	55	49
Water Quality	6	74	68	1.3	71	65	64
Water Treatment	6	63	59	1.2	62	57	55
Engineering Economics	1	44	44	0.5	48	40	40

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Board Code:	71	School Code:	7101				
Major:	<b>Civil</b>	PM Exam:	<b>Structural I</b>				
	*Institution		National	Comparator Groupings			

Examinees Taking	1	288	198	34	31		
Examinees Passing	0	105	74	11	12		
Examinees Passing %	0	36	37	32	39		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Analysis of Structures-Loads	6	50	71	1.3	72	65	68
Analysis of Structures-Lateral Forces	6	33	56	1.2	56	56	53
Analysis of Structures-Lateral Force Distribution	9	33	63	1.5	63	64	62
Analysis of Structures-Methods	4	25	51	0.9	52	50	52
Design and Details of Structures-General Structural C 6	6	50	62	1.0	62	64	62
Design and Details of Structures-Steel (AISC-AASHT 14	29	29	53	2.2	53	54	53
Design and Details of Structures-Concrete (AASHTO 13	54	54	58	2.3	59	57	58
Design and Details of Structures-Wood (NDS-ASD) 7	29	29	50	1.6	51	53	44
Design and Details of Structures-Masonry (ACI 530-L 7	43	43	71	1.4	72	68	69
Design and Details of Structures-Foundations & Reta 8	50	50	61	1.8	61	61	61

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6/23/2008

Graduate of	<b>Engineering</b>					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Electrical</b>	PM Exam:	<b>Electrical &amp; Computer-Power</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	7	784	357	133	213
Examinees Passing	4	402	204	57	101
Examinees Passing %	57	51	57	43	47

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Basic ELE - Professionalism and Engineering Econor	2	79	79	0.6	80	76	82
Basic ELE - Safety & Reliability	3	95	76	0.7	79	75	74
Basic ELE - Electric Circuits	10	59	54	2.1	56	51	52
Basic ELE - Electric & Magnetic Field Theory & Appli	1	29	39	0.5	41	35	38
Basic ELE - Computer Systems & Engr	2	64	67	0.6	69	65	65
Electronics, Circuits & Components - Components	6	81	67	1.2	69	66	63
Electronics, Circuits & Components - Materials	2	93	75	0.7	78	75	71
Controls & Communications Systems	6	57	51	1.5	53	49	49
Power - Transmission & Distribution	5	71	60	1.2	61	59	57
Power - Rotating Machines & Elecromagnetic Device	3	52	49	0.9	55	46	45
General Power - Measure, Instrument & Statistics	2	29	44	0.8	45	44	41
General Power - Special Applications	1	86	75	0.4	78	78	69
General Power - Codes, Standards & Special Appls	3	72	61	0.9	64	63	57
Circuit Analysis - Analysis	6	48	58	1.3	59	55	55
Circuit Analysis - Devices and Power Electronic Circu	3	29	36	0.9	39	36	32
Circuit Analysis - Electric and Magnetic Fields and Ap	2	36	26	0.6	28	23	27
Rotating Machines	7	57	55	1.4	56	51	53
Electromagnetic Devices	4	43	42	1.0	43	41	39
Transmission & Distrib - Systems Analysis	6	31	35	1.2	36	35	34
Transmission & Distrib - Power System Performance	2	50	57	0.7	59	55	54
Transmission & Distrib - Protection	4	57	52	0.9	52	56	51

\* 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 above is based on number of questions correct not percentage of questions correct.

\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination  
ABET - Accredited Programs

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6/23/2008

Graduate of	<b>Engineering</b>					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-HVAC</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	2	420	232	64	93		
Examinees Passing	2	279	172	33	55		
Examinees Passing %	100	66	74	52	59		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	50	54	1.4	59	43	51	
General - Codes & Standards - Fundamental Enginee	5	56	1.0	58	50	54	
General - Codes & Standards - Interpretation of Code	1	46	0.5	47	36	51	
Machine Design & Materials - Principles	5	40	41	1.2	42	41	40
Machine Design & Materials - Applications	2	50	65	0.6	69	62	64
Hydraulics & Fluids - Principles	4	50	56	1.1	60	54	48
Hydraulics & Fluids - Applications	3	84	64	0.8	65	58	64
Energy Conversion/Power Systems - Principles	4	12	29	1.0	31	23	30
Energy Conversion/Power Systems - Analysis of Sys	3	33	33	0.8	35	29	31
HVAC & Refrigeration - Principles	7	86	70	1.6	72	70	70
Fundamentals - Psychrometrics	5	40	57	1.2	59	52	53
Fundamentals - Principles	9	50	55	1.8	59	50	51
Equipment and Materials	13	66	56	2.4	59	52	52
Applications - Systems	10	40	43	1.8	45	44	40
Applications - Supportive Knowledges	3	33	50	0.9	53	49	44

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Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-Machine Design</b>				
	*Institution		National		Comparator Groupings		

Examinees Taking	3	368	214	59	65		
Examinees Passing	2	200	121	30	27		
Examinees Passing %	67	54	57	51	42		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	72	59	1.3	60	58	51	
General - Codes & Standards - Fundamental Enginee	5	40	58	1.0	59	54	57
General - Codes & Standards - Interpretation of Code	1	67	62	0.5	64	54	60
Machine Design & Materials - Principles	5	47	53	1.1	54	54	47
Machine Design & Materials - Applications	2	67	73	0.6	73	72	74
Hydraulics & Fluids - Principles	4	42	52	1.1	53	53	43
Hydraulics & Fluids - Applications	3	56	52	0.8	53	53	51
Energy Conversion/Power Systems - Principles	4	50	30	1.0	30	30	26
Energy Conversion/Power Systems - Analysis of Sys	3	33	37	0.9	37	38	31
HVAC & Refrigeration - Principles	7	52	52	1.4	52	52	52
Engineering Principles	18	52	59	3.2	59	58	55
Machine Design - Components	14	45	51	2.6	52	50	50
Applications - Systems	4	42	57	1.0	57	58	53
Applications - Supportive Knowledge	4	67	53	1.1	55	50	50

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Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-Thermal &amp; Fluids</b>				
	*Institution		National		Comparator Groupings		

Examinees Taking	3	358	191	52	86		
Examinees Passing	3	176	109	23	31		
Examinees Passing %	100	49	57	44	36		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	50	58	58	1.3	60	58	53
General - Codes & Standards - Fundamental Engine 5	53	53	53	1.1	57	51	47
General - Codes & Standards - Interpretation of Code 1	100	56	56	0.5	59	52	51
Machine Design & Materials - Principles	5	47	43	1.1	44	42	41
Machine Design & Materials - Applications	2	50	66	0.6	68	67	62
Hydraulics & Fluids - Principles	4	50	60	1.1	60	58	59
Hydraulics & Fluids - Applications	3	56	61	0.8	64	60	57
Energy Conversion/Power Systems - Principles	4	50	36	1.0	37	35	35
Energy Conversion/Power Systems - Analysis of Sys 3	33	37	37	0.9	40	39	31
HVAC & Refrigeration - Principles	7	52	58	1.6	61	54	52
Fundamentals - Engineering Principles	9	41	42	1.8	44	40	38
Fundamentals - Supportive Knowledges	4	58	43	1.0	45	42	41
Components - Hydraulic System Components	6	83	55	1.6	58	55	50
Components - Power Plant Components	8	75	50	1.9	51	51	46
Applications - System Applications	10	40	49	2.0	51	49	44
Applications - Supportive Knowledges	3	56	62	0.9	67	59	55

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Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>Civil-Water Resources_Environmental</b>			
	*Institution	National	Comparator Groupings			

	1	5	5	0	0		
Examinees Taking	1	5	5	0	0		
Examinees Passing	0	0	0	0	0		
Examinees Passing %	0	0	0	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Construction	8	62	75	0.7	75	0	0
Breadth - Geotechnical	8	25	47	1.1	47	0	0
Breadth - Structural	8	50	55	1.5	55	0	0
Breadth - Transportation	8	50	52	0.8	52	0	0
Breadth - Water Resources and Environmental	8	75	62	1.2	62	0	0
Hydraulics - Closed Conduit	6	83	77	1.1	77	0	0
Hydraulics - Open Channel	6	33	60	1.3	60	0	0
Hydrology	6	67	73	0.9	73	0	0
Groundwater and Well Fields	3	67	67	1.0	67	0	0
Wastewater Treatment	6	50	50	1.9	50	0	0
Water Quality	6	67	57	0.5	57	0	0
Water Treatment	6	67	57	0.9	57	0	0
Engineering Economics	1	0	20	0.4	20	0	0

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