



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

200610
1/13/2007

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

Examinees Taking	1	30	27	2	1		
Examinees Passing	0	19	17	1	1		
Examinees Passing %	0	63	63	50	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Soil & Water - Hydrology	5	60	56	1.2	58	30	60
Soil & Water - Soil Conservation Systems	4	25	63	1.2	63	62	75
Soil & Water - Water Management	6	17	52	1.1	51	50	83
Power & Machinery - Systems	5	40	63	1.0	60	90	80
Power & Machinery - Machine Design	4	50	59	1.0	57	62	100
Power & Machinery - Power & Energy Systems	5	40	58	1.0	58	80	20
Process & Handling Bio. Products - Unit Operations	7	71	54	1.3	52	57	86
Process & Handling Bio. Products - Characterization	3	67	40	0.8	41	17	67
Structures & Environment - Structural Systems	6	33	38	1.1	38	33	67
Structures & Environment - Environmental Systems	6	50	43	1.3	40	75	67
Structures & Environment - Facilities Planning	3	67	51	0.8	52	50	33
Biological Systems - Biological Processes	5	40	61	1.2	59	70	100
Biological Systems - Environ & Ecological Systems	3	33	73	0.8	74	67	67
Agric Engr Principles - Core AgE Knowledges	10	40	63	1.9	61	75	90
Agric Engr Principles - Equipment Application	6	50	51	1.7	51	33	83
Agric Engr Principles - Professional Practice	2	50	67	0.6	65	75	100

* 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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Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Agricultural	PM Exam:	Civil-Water Resources				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	39	31	1	7		
Examinees Passing	1	35	28	1	6		
Examinees Passing %	100	90	90	100	86		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	88	85	1.0	86	100	80
Breadth - Geotechnical	8	62	68	1.6	70	62	61
Breadth - Structural	8	50	73	1.3	73	62	75
Breadth - Transportation	8	62	75	1.7	75	75	75
Breadth - Water Resources	8	88	89	1.0	89	88	91
Hydraulics	14	57	75	1.9	76	71	71
Hydrology	6	83	82	1.0	80	100	86
Water Treatment	6	50	67	1.1	66	67	71
Environmental	10	70	62	1.6	64	70	54
Geotechnical	4	75	78	0.7	77	75	79

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Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Agricultural	PM Exam:	Environmental				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	15	15	0	0	0	0
Examinees Passing	1	8	8	0	0	0	0
Examinees Passing %	100	53	53	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 ***
Wastewater	11	55	52	2.0	52	0	0
Storm Water	6	50	66	1.6	66	0	0
Potable Water	11	55	51	2.0	51	0	0
Water Resources	6	50	68	1.2	68	0	0
Ambient Air	7	57	60	2.1	60	0	0
Emissions Sources	4	75	45	1.0	45	0	0
Control Strategies	9	78	62	1.9	62	0	0
Municipal Solid Waste (MSW), Commercial, and Ind.	10	60	55	1.8	55	0	0
Hazardous Waste, Special, and Radioactive Waste	10	50	59	2.2	59	0	0
Environmental Assessments	8	50	70	1.5	70	0	0
Remediation	8	75	60	1.9	60	0	0
Public Health and Safety	10	50	65	2.0	65	0	0

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Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Agricultural	PM Exam:	Mechanical-HVAC			
	*Institution		National		Comparator Groupings	

Examinees Taking	1	4	4	0	0		
Examinees Passing	1	4	4	0	0		
Examinees Passing %	100	100	100	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 ***
General - Codes & Standards - Engineering Principle 6	67	83	83	0.8	83	0	0
General - Codes & Standards - Fundamental Enginee	5	100	90	0.6	90	0	0
General - Codes & Standards - Interpretation of Code	1	0	50	0.6	50	0	0
Machine Design & Materials - Principles	4	100	94	0.5	94	0	0
Machine Design & Materials - Applications	3	100	100	0.0	100	0	0
Hydraulics & Fluids - Principles	4	50	75	0.8	75	0	0
Hydraulics & Fluids - Applications	3	67	83	0.6	83	0	0
Energy Conversion/Power Systems - Principles	4	75	88	0.6	88	0	0
Energy Conversion/Power Systems - Analysis of Sys	3	67	92	0.5	92	0	0
HVAC & Refrigeration - Principles	7	86	89	0.5	89	0	0
Fundamentals - Psychrometrics	5	100	95	0.5	95	0	0
Fundamentals - Principles	9	78	75	1.0	75	0	0
Equipment and Materials	14	57	82	2.6	82	0	0
Applications - Systems	10	90	78	1.5	78	0	0
Applications - Supportive Knowledges	2	50	50	0.0	50	0	0

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Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Biological-(not Bio-Medi	PM Exam:	Civil-Water Resources			
	*Institution	National	Comparator Groupings			

Examinees Taking	1	19	18	0	0		
Examinees Passing	1	17	16	0	0		
Examinees Passing %	100	89	89	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 - Environmental	8	75	89	1.0	89	0	0
Breadth - Geotechnical	8	62	61	1.5	60	0	0
Breadth - Structural	8	75	66	1.1	65	0	0
Breadth - Transportation	8	75	65	1.4	64	0	0
Breadth - Water Resources	8	88	90	0.7	90	0	0
Hydraulics	14	64	72	1.7	71	0	0
Hydrology	6	50	83	1.0	82	0	0
Water Treatment	6	50	72	1.2	72	0	0
Environmental	10	50	72	1.7	71	0	0
Geotechnical	4	75	70	1.1	68	0	0

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Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Chemical	PM Exam:	Chemical				
	*Institution		National		Comparator Groupings		

	2	227	147	24	47		
Examinees Taking	2	155	112	17	20		
Examinees Passing	100	68	76	71	43		
Examinees Passing %	# 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	8	81	71	1.7	74	69	58
Mass/Energy: Energy Balances & Thermo	10	70	60	1.9	63	62	50
Fluids: Fluid Transport	2	50	57	0.4	58	58	55
Fluids: Mech-Energy Balance	9	61	54	1.9	54	63	46
Fluids: Flow Measurement	3	50	53	0.9	56	57	41
Heat Transfer: Mechanisms	5	70	57	1.2	58	62	54
Heat Transfer: Applications	8	62	51	1.7	54	58	38
Mass Transfer: Phase Equilibria	4	88	58	1.1	61	57	51
Mass Transfer Contactors (Absorption-etc)	5	30	50	1.3	51	55	43
Mass Transfer: Miscellaneous Separation Processes	1	50	63	0.5	68	62	49
Kinetics: Reaction Parameters	2	100	74	0.7	76	67	74
Kinetics: Reaction Rate	2	50	72	0.6	71	69	74
Kinetics: Reactor Design & Evaluation	3	50	51	1.0	53	49	45
Kinetics: Heterogenous Reaction Systems	2	50	53	0.6	55	48	48
Plant Design/Operation: Economic Considerations	2	75	61	0.7	64	79	39
Plant Design/Operation: Design & Operations	4	75	65	1.1	67	71	53
Plant Design/Operation: Safety	3	50	59	0.9	62	60	52
Plant Design/Operation: Environmental	2	100	72	0.6	75	75	64
Plant Design/Operation: Materials	2	100	47	0.8	47	50	41
Plant Design/Operation: Process Control	3	100	77	0.8	78	81	66

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Board Code:	71	School Code:	7101				
Major:	Chemical	PM Exam:	Environmental				
	*Institution	National	Comparator Groupings				

	1	99	64	8	21		
Examinees Taking	1	99	64	8	21		
Examinees Passing	0	57	41	7	6		
Examinees Passing %	0	58	64	88	29		
	# 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	27	52	2.1	53	61	44
Storm Water	6	50	56	1.2	56	65	56
Potable Water	11	64	52	2.0	55	56	41
Water Resources	6	50	62	1.4	67	60	48
Ambient Air	7	43	55	1.5	59	39	48
Emissions Sources	4	25	51	1.1	54	62	40
Control Strategies	9	44	57	1.7	60	51	52
Municipal Solid Waste (MSW), Commercial, and Ind.	10	40	47	1.9	48	62	38
Hazardous Waste, Special, and Radioactive Waste	10	40	54	1.8	55	55	54
Environmental Assessments	8	75	68	1.3	71	61	60
Remediation	8	75	56	1.4	60	66	45
Public Health and Safety	10	70	60	1.9	64	66	50

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Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	Civil-Environmental				
	*Institution		National		Comparator Groupings		

Examinees Taking	4	170	92	24	40		
Examinees Passing	3	75	53	5	12		
Examinees Passing %	75	44	58	21	30		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	88	82	1.2	85	81	78
Breadth - Geotechnical	8	66	55	1.7	60	49	49
Breadth - Structural	8	69	65	1.6	67	60	61
Breadth - Transportation	8	88	60	1.9	63	56	55
Breadth - Water Resources	8	78	77	1.6	82	69	70
Wastewater Treatment	8	81	66	1.8	74	65	56
Biology	8	88	66	1.7	72	61	58
Solid/Hazardous Waste	5	70	51	1.2	58	45	44
Groundwater & Well Fields	5	40	56	1.2	61	53	48
Geotechnical	4	69	62	1.1	67	57	57
Water Resources	10	65	62	2.3	70	52	54

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

Examinees Taking	4	628	279	83	196
Examinees Passing	2	292	183	31	54
Examinees Passing %	50	46	66	37	28

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	84	72	1.5	77	69	66
Breadth - Geotechnical	8	62	67	1.7	74	65	60
Breadth - Structural	8	66	70	1.6	74	64	67
Breadth - Transportation	8	75	61	1.8	69	56	55
Breadth - Water Resources	8	81	69	1.6	76	65	63
Subsurface Exploration & Sampling	4	69	67	1.0	75	68	58
Engineering Properties & Soil Mechanics	7	46	50	1.5	56	47	46
Foundations	9	64	54	1.9	59	50	47
Earth Retaining Structures & Seismic Engineering	6	38	45	1.4	51	44	39
Environmental	4	31	46	1.0	50	48	41
Structural	8	69	52	1.9	60	49	44
Transportation	2	75	66	0.7	75	62	55

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

Examinees Taking	6	560	342	81	111		
Examinees Passing	3	321	216	42	46		
Examinees Passing %	50	57	63	52	41		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	79	76	1.4	79	72	72
Breadth - Geotechnical	8	52	65	1.6	67	61	62
Breadth - Structural	8	85	83	1.3	86	81	77
Breadth - Transportation	8	67	66	1.8	68	65	60
Breadth - Water Resources	8	67	73	1.6	75	72	68
Loading/Analysis	8	44	55	1.4	56	58	48
Mechanics of Materials/Materials	8	44	46	1.7	48	42	42
Member Design	6	36	45	1.3	46	44	42
Failure Analysis/Design Criteria	4	54	54	1.1	56	50	49
Geotechnical	10	52	53	1.8	53	53	50
Transportation	4	58	56	1.1	58	50	50

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

Examinees Taking	25	1,918	1,114	305	392
Examinees Passing	14	858	593	105	122
Examinees Passing %	56	45	53	34	31

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	82	73	1.4	75	72	68
Breadth - Geotechnical	8	54	55	1.6	57	53	50
Breadth - Structural	8	65	64	1.5	66	62	62
Breadth - Transportation	8	74	68	1.7	71	67	63
Breadth - Water Resources	8	70	73	1.5	75	73	68
Traffic Analysis	10	71	64	1.8	67	63	60
Transportation Planning/Construction	7	63	60	1.4	62	58	56
Geometric Design/Traffic Safety	9	70	65	1.8	69	62	60
Geotechnical	6	40	43	1.4	45	38	39
Water Resources	8	60	61	1.7	63	58	56

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

200610
1/13/2007

Graduate of Engineering							
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	Civil-Water Resources				
	*Institution	National	Comparator Groupings				

Examinees Taking	10	1,528	854	223	360		
Examinees Passing	4	874	557	121	147		
Examinees Passing %	40	57	65	54	41		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	80	77	1.3	80	77	72
Breadth - Geotechnical	8	45	57	1.7	59	57	52
Breadth - Structural	8	65	66	1.5	67	65	63
Breadth - Transportation	8	60	63	1.7	65	62	60
Breadth - Water Resources	8	66	80	1.4	82	81	74
Hydraulics	14	61	64	2.2	66	63	59
Hydrology	6	60	69	1.2	71	69	66
Water Treatment	6	52	56	1.4	59	54	51
Environmental	10	53	52	1.7	54	49	48
Geotechnical	4	65	69	1.0	71	67	65

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

200610
1/13/2007

Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	Structural I				
	*Institution	National	Comparator Groupings				

Examinees Taking	2	302	209	47	32		
Examinees Passing	1	123	85	19	12		
Examinees Passing %	50	41	41	40	38		
	# 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	67	56	1.3	56	55	60
Analysis of Structures-Lateral Forces	6	67	50	1.3	50	49	47
Analysis of Structures-Lateral Force Distribution	9	50	57	1.9	57	58	55
Analysis of Structures-Methods	4	50	62	0.8	61	68	66
Design and Details of Structures-General Structural C 6	6	67	52	1.1	52	51	51
Design and Details of Structures-Steel (AISC-AASHT 14	14	71	66	2.2	66	69	65
Design and Details of Structures-Concrete (AASHTO 13	13	62	52	2.3	52	52	49
Design and Details of Structures-Wood (NDS-ASD) 7	7	29	55	1.7	54	57	57
Design and Details of Structures-Masonry (ACI 530-L 7	7	43	54	1.5	54	53	53
Design and Details of Structures-Foundations & Reta 8	8	56	65	1.6	65	64	65

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

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

Examinees Taking	1	62	34	7	13		
Examinees Passing	1	41	26	5	6		
Examinees Passing %	100	66	76	71	46		
	# 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	100	73	0.7	78	71	62
Basic ELE - Safety & Reliability	3	67	67	0.9	71	57	56
Basic ELE - Electric Circuits	10	80	60	2.4	68	54	47
Basic ELE - Electric & Magnetic Field Theory & Appli	1	100	37	0.5	32	43	46
Basic ELE - Computer Systems & Engr	2	100	60	0.7	68	64	42
Electronics, Circuits & Components - Components	6	100	69	1.5	76	67	56
Electronics, Circuits & Components - Materials	2	100	57	0.8	68	43	42
Controls & Communications Systems	6	67	60	1.6	62	55	53
Power - Transmission & Distribution	5	80	46	1.2	49	60	38
Power - Rotating Machines & Elecromagnetic Device	3	67	38	0.9	45	29	28
General EE Knowledge - Interpret of Codes & Standæ	2	100	77	0.5	76	86	69
General EE Knowledge - Microprocessor Systems	2	100	56	0.8	69	50	35
Hardware - Digital Electronics	6	83	60	1.6	69	62	44
Hardware - Design Analysis	8	62	56	1.5	60	55	47
Hardware - Systems	4	75	48	1.1	54	43	33
Software - System Software	5	80	52	1.2	54	69	38
Software - Development/Applications	9	44	62	2.0	69	52	52
Networks	4	75	50	1.0	54	43	37

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National Council of Examiners for Engineering and Surveying
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Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Electrical	PM Exam:	Electrical & Computer-ECC				
	*Institution		National		Comparator Groupings		

Examinees Taking	1	119	50	20	35		
Examinees Passing	0	78	41	14	19		
Examinees Passing %	0	66	82	70	54		
	# 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	50	69	0.7	79	68	64
Basic ELE - Safety & Reliability	3	33	61	0.9	66	65	60
Basic ELE - Electric Circuits	10	20	59	2.2	64	64	56
Basic ELE - Electric & Magnetic Field Theory & Appli	1	100	36	0.5	48	35	26
Basic ELE - Computer Systems & Engr	2	50	48	0.7	53	45	46
Electronics, Circuits & Components - Components	6	50	67	1.6	74	67	62
Electronics, Circuits & Components - Materials	2	50	55	0.7	68	58	43
Controls & Communications Systems	6	50	63	1.4	64	65	64
Power - Transmission & Distribution	5	60	49	1.4	53	51	46
Power - Rotating Machines & Electromagnetic Device	3	0	39	0.9	45	35	40
General EE Knowledge - Measurement & Instrument	2	0	66	0.8	75	78	53
General EE Knowledge - Interpret of Codes & Stand	1	0	53	0.5	66	65	34
General EE Knowledge - Computer Systems	1	100	23	0.4	18	20	34
Electronics - Electric Circuit Theory	4	25	44	1.2	54	41	36
Electronics - Electric & Magnetic Field Theory & Appl	3	67	58	0.8	65	65	52
Electronics - Components & Circuits	7	14	44	1.6	49	45	43
Control System Fundamentals	4	50	66	1.1	72	64	66
Control System Design/Implementation	2	0	38	0.7	37	40	40
Controls - Stability	4	25	73	0.9	76	72	71
Communications & Signal Processing	6	67	51	1.3	56	52	41
Communications - Noise & Interference	3	67	43	0.9	50	53	27
Telecommunications	3	0	43	1.0	53	42	36

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

200610
1/13/2007

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

Examinees Taking	5	720	323	129	197		
Examinees Passing	1	322	166	58	72		
Examinees Passing %	20	45	51	45	37		
	# 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	90	68	0.7	74	64	65
Basic ELE - Safety & Reliability	3	47	52	0.9	56	53	47
Basic ELE - Electric Circuits	10	62	54	2.1	56	52	51
Basic ELE - Electric & Magnetic Field Theory & Appli	1	40	43	0.5	46	43	38
Basic ELE - Computer Systems & Engr	2	50	40	0.6	39	40	41
Electronics, Circuits & Components - Components	6	63	57	1.5	60	55	56
Electronics, Circuits & Components - Materials	2	40	49	0.7	48	54	47
Controls & Communications Systems	6	43	52	1.4	53	51	51
Power - Transmission & Distribution	5	52	54	1.2	56	53	51
Power - Rotating Machines & Elecromagnetic Device	3	40	49	0.9	51	52	47
General Power - Measure, Instrument & Statistics	2	30	63	0.6	68	62	57
General Power - Special Applications	1	40	43	0.5	46	47	40
General Power - Codes, Standards & Special Appls	3	40	44	0.9	49	48	35
Circuit Analysis - Analysis	6	77	60	1.2	62	58	58
Circuit Analysis - Devices and Power Electronic Circu	3	33	47	0.9	50	47	42
Circuit Analysis - Electric and Magnetic Fields and Ap	2	30	35	0.6	37	35	33
Rotating Machines	7	71	66	1.5	68	67	62
Electromagnetic Devices	4	35	34	1.1	37	37	28
Transmission & Distrib - Systems Analysis	6	37	51	1.2	53	55	47
Transmission & Distrib - Power System Performance	2	30	23	0.6	24	24	20
Transmission & Distrib - Protection	4	65	60	1.0	63	61	54

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

200610
1/13/2007

Graduate of Engineering							
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Mechanical	PM Exam:	Civil-Water Resources				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	43	27	3	10		
Examinees Passing	1	24	19	2	2		
Examinees Passing %	100	56	70	67	20		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	88	74	1.8	82	88	49
Breadth - Geotechnical	8	62	53	1.6	57	46	46
Breadth - Structural	8	100	67	1.6	73	79	50
Breadth - Transportation	8	75	57	1.8	64	62	35
Breadth - Water Resources	8	62	73	1.7	76	75	61
Hydraulics	14	50	59	2.6	61	71	49
Hydrology	6	67	72	1.2	73	89	70
Water Treatment	6	50	53	1.5	58	56	43
Environmental	10	60	53	1.8	57	53	43
Geotechnical	4	75	68	0.9	66	75	68

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

200610
1/13/2007

Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Mechanical	PM Exam:	Fire Protection				
	*Institution	National	Comparator Groupings				

	1	63	32	14	10		
Examinees Taking	1	63	32	14	10		
Examinees Passing	0	18	7	6	3		
Examinees Passing %	0	29	22	43	30		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
FP Analysis - Type of Analysis	10	60	63	1.8	62	69	66
FP Analysis - Information Sources for Analysis	6	33	59	1.2	58	64	57
FP Management	8	75	68	1.2	68	67	72
Fire Science & Human Behavior - Fire Dynamics	8	12	48	1.8	45	59	49
Fire Science & Human Behavior - Human Response	4	25	49	1.1	46	50	58
FP System - Water-Based Fire Suppression Systems	10	50	48	1.8	43	49	56
FP System - Special Hazard Systems	4	0	53	1.1	53	54	48
FP System - Fire Detection and Alarm Systems	7	57	58	1.5	56	63	59
FP System - Smoke Management Systems	4	25	62	1.1	63	71	58
FP System - Explosion Protection and Prevention Sy	3	0	32	0.9	31	31	43
Passive Building Systems - Building Construction	10	40	69	2.0	62	73	75
Passive Building Systems - Means of Egress	6	67	58	1.6	57	65	57

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ABET - Accredited Programs

200610
1/13/2007

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

Examinees Taking	5	413	199	74	107
Examinees Passing	4	256	136	47	54
Examinees Passing %	80	62	68	64	50

	# 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	63	60	1.4	61	61	56	
General - Codes & Standards - Fundamental Enginee	5	72	65	1.2	68	64	61
General - Codes & Standards - Interpretation of Code	1	40	61	0.5	63	66	58
Machine Design & Materials - Principles	4	55	53	0.8	55	49	50
Machine Design & Materials - Applications	3	87	68	0.8	69	69	64
Hydraulics & Fluids - Principles	4	75	60	0.9	62	63	56
Hydraulics & Fluids - Applications	3	80	75	0.8	78	75	69
Energy Conversion/Power Systems - Principles	4	60	51	1.1	55	51	46
Energy Conversion/Power Systems - Analysis of Sys	3	93	70	0.7	71	68	68
HVAC & Refrigeration - Principles	7	94	76	1.5	80	74	72
Fundamentals - Psychrometrics	5	88	72	1.0	73	74	69
Fundamentals - Principles	9	60	58	1.6	60	57	53
Equipment and Materials	14	66	61	2.7	63	63	56
Applications - Systems	10	68	61	1.9	64	62	57
Applications - Supportive Knowledges	2	80	53	0.7	56	51	50

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200610
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Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Mechanical	PM Exam:	Mechanical-Machine Design				
	*Institution		National		Comparator Groupings		

	2	309	179	49	63		
Examinees Taking	2	309	179	49	63		
Examinees Passing	0	148	95	25	18		
Examinees Passing %	0	48	53	51	29		
	# 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	67	55	1.3	56	53	50	
General - Codes & Standards - Fundamental Enginee	5	70	71	1.0	74	67	65
General - Codes & Standards - Interpretation of Code	1	100	71	0.5	75	78	59
Machine Design & Materials - Principles	4	62	64	0.9	64	68	59
Machine Design & Materials - Applications	3	67	77	0.7	80	71	72
Hydraulics & Fluids - Principles	4	62	62	1.0	64	63	57
Hydraulics & Fluids - Applications	3	83	66	1.0	69	63	58
Energy Conversion/Power Systems - Principles	4	38	51	1.2	53	52	44
Energy Conversion/Power Systems - Analysis of Sys	3	67	69	0.7	71	68	65
HVAC & Refrigeration - Principles	7	43	60	1.7	64	59	49
Engineering Principles	18	53	54	2.9	56	53	49
Machine Design - Components	14	32	50	2.7	51	52	45
Applications - Systems	5	60	49	1.1	51	47	43
Applications - Supportive Knowledge	3	50	57	0.9	60	61	49

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200610
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Graduate of	Engineering					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Mechanical	PM Exam:	Mechanical-Thermal & Fluids			
	*Institution	National	Comparator Groupings			

Examinees Taking	2	304	159	42	79		
Examinees Passing	1	188	112	27	34		
Examinees Passing %	50	62	70	64	43		
	# 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	67	61	1.4	63	59	54	
General - Codes & Standards - Fundamental Enginee	5	60	70	1.1	72	70	64
General - Codes & Standards - Interpretation of Code	1	0	63	0.5	69	76	48
Machine Design & Materials - Principles	4	75	55	0.9	58	57	52
Machine Design & Materials - Applications	3	83	73	0.8	74	73	70
Hydraulics & Fluids - Principles	4	50	62	1.0	64	64	55
Hydraulics & Fluids - Applications	3	67	72	0.9	77	75	60
Energy Conversion/Power Systems - Principles	4	50	61	1.2	64	61	53
Energy Conversion/Power Systems - Analysis of Sys	3	67	69	0.8	73	71	61
HVAC & Refrigeration - Principles	7	57	68	1.7	72	69	60
Fundamentals - Engineering Principles	9	50	43	1.8	46	40	37
Fundamentals - Supportive Knowledges	4	88	52	1.1	54	53	46
Components - Hydraulic System Components	6	67	55	1.5	59	57	49
Components - Power Plant Components	8	56	59	1.9	62	62	51
Applications - System Applications	10	65	46	1.8	49	46	42
Applications - Supportive Knowledges	3	50	70	0.8	73	73	64

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

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

200610
1/13/2007

Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Metallurgical	PM Exam:	Metallurgical				
	*Institution	National	Comparator Groupings				

Examinees Taking	2	20	9	4	2		
Examinees Passing	0	10	2	4	1		
Examinees Passing %	0	50	22	100	50		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General Knowledge: QC-Statistics	2	50	25	0.6	22	50	25
General Knowledge: Sciences	14	25	35	2.5	29	43	36
General Knowledge: Mechanics	2	100	58	0.7	61	62	50
Str. of Metals: Crystalline Properties	3	17	48	0.9	41	67	67
Str. of Metals: Annealing & Structure	2	0	70	0.8	50	100	100
Str. of Metals: Chemistry	5	30	62	1.5	58	65	60
MMFMP: Mechanical Metallurgy	6	25	63	1.6	46	83	67
MMFMP: Fabrication & Mech Processes	7	43	54	1.6	46	71	57
Material Processing: Heat Treating	5	80	70	1.1	64	80	80
Material Processing: Molten Metal Processing	5	40	54	1.2	49	55	60
Material Processing: Powder Metallurgy	2	25	48	0.4	39	50	75
Material Processing: Surface Modification	3	33	73	1.0	56	92	83
Alloy Selection: Mechanical Properties	4	38	65	1.1	47	88	62
Alloy Selection: Chemical Specifications	3	100	67	0.9	67	67	67
Alloy Selection: Environmental Response	5	40	61	1.1	47	70	80
Material Testing: Destructive Testing	7	43	53	1.5	44	68	43
Material Testing: Nondestructive Testing	5	30	56	1.6	33	75	70

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Principles and Practice of Engineering Examination
ABET - Accredited Programs

200610
1/13/2007

Graduate of	Engineering					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Mining/Mineral	PM Exam:	Civil-Geotechnical			
	*Institution	National	Comparator Groupings			

Examinees Taking	2	4	3	1	0		
Examinees Passing	1	2	2	0	0		
Examinees Passing %	50	50	67	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 - Environmental	8	81	78	1.3	79	75	0
Breadth - Geotechnical	8	94	81	1.3	88	62	0
Breadth - Structural	8	62	62	1.2	67	50	0
Breadth - Transportation	8	56	62	2.9	50	100	0
Breadth - Water Resources	8	69	59	1.5	62	50	0
Subsurface Exploration & Sampling	4	75	81	0.5	75	100	0
Engineering Properties & Soil Mechanics	7	64	68	0.5	67	71	0
Foundations	9	44	47	2.2	56	22	0
Earth Retaining Structures & Seismic Engineering	6	33	46	1.5	50	33	0
Environmental	4	0	25	1.4	25	25	0
Structural	8	44	47	0.5	46	50	0
Transportation	2	25	50	0.8	33	100	0

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Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Mining/Mineral	PM Exam:	Mining & Mineral				
	*Institution	National	Comparator Groupings				

Examinees Taking	3	33	19	4	1		
Examinees Passing	1	22	12	4	0		
Examinees Passing %	33	67	63	100	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Exploration: Methods & techniques	2	33	44	0.7	39	62	0
Exploration: Deposits modeling	1	67	33	0.5	47	0	0
Exploration: Geo conditions modeling	2	67	79	0.6	84	75	50
Exploration: E&E resources/reserves	3	33	58	0.8	58	67	33
Mine Plan/Oper: Methods & layouts	9	67	64	1.8	65	78	33
Mine Plan/Oper: Equip, Fac, Systems	12	42	65	2.5	65	75	33
Mine Plan/Oper: E&D ground Control	9	48	62	1.4	60	69	33
Mine Plan/Oper: O&M mines & systems	6	61	77	1.2	75	92	33
Mineral Proc: Lab & Pilot T&A	4	50	53	1.1	53	62	50
Mineral Proc: D&E process flowsheets	9	56	64	2.1	65	78	22
Mineral Proc: P&D equip, fac & systems	8	38	55	1.8	58	59	38
Mineral Proc: O&M plants & facilities	3	22	35	0.9	40	17	0
Env & Reclaim: S, M & PE characterization	3	44	49	0.9	53	67	0
Env & Reclaim: M&P impact design	4	42	60	1.2	59	69	25
Env & Reclaim: O&M Env Plan	2	17	45	0.6	45	38	50
Env & Reclaim: Close & Reclaim site	3	22	34	0.8	37	25	67

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