



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

200904
7/20/2009

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	

Examinees Taking	4			44
Examinees Passing	2			25
Examinees Passing %	50			57
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	69	60	1.5
Breadth - Geotechnical	8	75	63	1.4
Breadth - Structural	8	59	65	1.6
Breadth - Transportation	8	72	71	1.6
Breadth - Water Resources and Environmental	8	72	79	1.5
Hydraulics - Closed Conduit	6	62	65	1.2
Hydraulics - Open Channel	6	66	67	1.3
Hydrology	6	67	70	1.4
Groundwater and Well Fields	3	67	66	0.9
Wastewater Treatment	6	66	67	1.3
Water Quality	6	58	73	1.0
Water Treatment	6	54	61	1.4
Engineering Economics	1	100	55	0.5

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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:	Electrical & Computer-Power
	*Institution	National	

Examinees Taking	1		3	
Examinees Passing	0		0	
Examinees Passing %	0		0	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
General Power Engineering	24	58	64	1.2
Circuit Analysis	16	56	44	2.0
Rotating Machines & Electromagnetic Devices	16	62	62	1.0
Transmission & Distribution	24	62	57	1.5

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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:	Agricultural	PM Exam:	Environmental
	*Institution	National	

Examinees Taking	1	6
Examinees Passing	1	4
Examinees Passing %	100	67

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Wastewater	11	45	55	2.0
Storm Water	6	50	67	0.9
Potable Water	11	55	52	1.4
Water Resources	6	50	58	1.4
Ambient Air	8	50	60	1.0
Emissions Sources	4	25	21	1.2
Control Strategies	8	25	40	1.8
Municipal Solid Waste (MSW), Commercial, and Ind.	10	60	70	1.3
Hazardous Waste, Special, and Radioactive Waste	10	60	63	1.5
Environmental Assessments	9	89	69	1.9
Remediation	8	50	69	1.2
Public Health and Safety	9	56	58	1.0

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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:	Agricultural	PM Exam:	Mechanical-Mechanical Systems and Materials
	*Institution	National	

Examinees Taking	1				3
Examinees Passing	1				3
Examinees Passing %	100				100
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	
Breadth - Basic Engineering Practice	12	58	81	2.5	
Breadth - Mechanical Systems and Materials	8	100	96	0.6	
Breadth - Hydraulics and Fluids	7	71	86	1.0	
Breadth - Energy and Power Systems	6	50	67	1.0	
Breadth - HVAC and Refrigeration	7	86	91	0.6	
MS&M - Statics	6	67	83	1.0	
MS&M - Kinematics	3	33	78	1.2	
MS&M - Dynamics	4	50	67	1.2	
MS&M - Materials Properties	4	50	67	1.2	
MS&M - Strength of Materials	7	71	66	0.6	
MS&M - Mechanical Components	4	75	83	0.6	
MS&M - Joints and Fasteners	4	75	75	0.0	
MS&M - Vibration/Dynamic Analysis	4	75	83	0.6	
MS&M - Materials and Process	4	50	83	1.2	

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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:	Chemical
	*Institution	National	

Examinees Taking	1	215
Examinees Passing	1	145
Examinees Passing %	100	67

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Mass/Energy: Mass Balances	9	89	54	1.9
Mass/Energy: Energy Balances & Thermo	10	90	63	2.1
Fluids: Fluid Transport	2	100	72	0.7
Fluids: Mech-Energy Balance	9	89	55	2.0
Fluids: Flow Measurement	3	100	66	1.0
Heat Transfer: Mechanisms	5	100	62	1.3
Heat Transfer: Applications	8	100	71	1.8
Mass Transfer: Phase Equilibria	4	50	60	1.1
Mass Transfer Contactors (Absorption-etc)	5	100	54	1.3
Mass Transfer: Miscellaneous Separation Processes	1	0	56	0.5
Kinetics: Reaction Parameters	2	100	60	0.7
Kinetics: Reaction Rate	2	50	47	0.7
Kinetics: Reactor Design & Evaluation	3	100	53	1.0
Kinetics: Heterogenous Reaction Systems	2	100	52	0.7
Plant Design/Operation: Economic Considerations	2	100	64	0.7
Plant Design/Operation: Design & Operations	4	25	62	1.1
Plant Design/Operation: Safety	3	33	58	1.0
Plant Design/Operation: Environmental	2	100	73	0.6
Plant Design/Operation: Materials	2	0	41	0.7
Plant Design/Operation: Process Control	2	100	63	0.7

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Chemical	PM Exam:	Civil-Geotechnical
	*Institution	National	

Examinees Taking	1			2
Examinees Passing	1			2
Examinees Passing %	100			100
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	75	81	0.7
Breadth - Geotechnical	8	75	82	0.7
Breadth - Structural	8	75	82	0.7
Breadth - Transportation	8	100	94	0.7
Breadth - Water Resources and Environmental	8	50	62	1.4
Subsurface Exploration & Sampling	3	100	100	0.0
Engineering Properties of Soils and Materials	5	80	80	0.0
Soil Mechanics Analysis	5	0	30	2.1
Earthquake Engineering	2	50	25	0.7
Earth Structures	4	75	62	0.7
Shallow Foundations	6	50	66	1.4
Earth Retaining Structures	6	33	33	0.0
Deep Foundations	4	100	88	0.7
Other Topics	5	80	70	0.7

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Chemical	PM Exam:	Environmental
	*Institution	National	

Examinees Taking	1	82
Examinees Passing	0	44
Examinees Passing %	0	54

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Wastewater	11	18	53	2.0
Storm Water	6	50	59	1.2
Potable Water	11	45	48	2.4
Water Resources	6	33	44	1.3
Ambient Air	8	75	58	1.5
Emissions Sources	4	25	31	1.1
Control Strategies	8	0	53	1.9
Municipal Solid Waste (MSW), Commercial, and Ind.	10	50	62	1.7
Hazardous Waste, Special, and Radioactive Waste	10	40	62	1.8
Environmental Assessments	9	67	65	1.7
Remediation	8	62	64	1.4
Public Health and Safety	9	33	58	1.3

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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	

Examinees Taking	7			1,031
Examinees Passing	4			357
Examinees Passing %	57			35
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	84	62	1.6
Breadth - Geotechnical	8	64	62	1.6
Breadth - Structural	8	70	69	1.6
Breadth - Transportation	8	72	71	1.5
Breadth - Water Resources and Environmental	8	70	65	1.7
Earthwork Construction and Layout	4	64	55	1.0
Estimating Quantities and Costs	7	73	60	1.5
Construction Operations and Methods	6	62	58	1.2
Scheduling	7	73	64	1.4
Material Quality Control and Production	4	46	50	1.0
Temporary Structures	5	31	30	1.1
Worker Health, Safety, and Environment	3	71	61	0.8
Other Topics	4	64	51	1.0

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

Examinees Taking	5			657	
Examinees Passing	3			287	
Examinees Passing %	60			44	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	
Breadth - Construction	8	68	62	1.8	
Breadth - Geotechnical	8	75	76	1.5	
Breadth - Structural	8	78	75	1.6	
Breadth - Transportation	8	80	74	1.5	
Breadth - Water Resources and Environmental	8	80	70	1.6	
Subsurface Exploration & Sampling	3	93	75	0.8	
Engineering Properties of Soils and Materials	5	76	58	1.3	
Soil Mechanics Analysis	5	64	54	1.2	
Earthquake Engineering	2	60	55	0.7	
Earth Structures	4	55	55	1.1	
Shallow Foundations	6	30	49	1.5	
Earth Retaining Structures	6	57	56	1.4	
Deep Foundations	4	85	67	1.0	
Other Topics	5	68	65	1.1	

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Civil	PM Exam:	Civil-Structural
	*Institution	National	

Examinees Taking	8			618
Examinees Passing	3			346
Examinees Passing %	38			56
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	61	68	1.6
Breadth - Geotechnical	8	56	69	1.5
Breadth - Structural	8	83	89	1.0
Breadth - Transportation	8	67	73	1.5
Breadth - Water Resources and Environmental	8	62	71	1.6
Loadings	5	52	43	1.1
Analysis	5	58	71	1.2
Mechanics of Materials	5	50	65	1.1
Materials	5	55	66	1.1
Member Design	10	46	54	2.0
Design Criteria	5	60	58	1.2
Other Topics	5	40	47	1.2

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

Examinees Taking	17			1,998
Examinees Passing	10			1,071
Examinees Passing %	59			54
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	51	58	1.7
Breadth - Geotechnical	8	59	63	1.6
Breadth - Structural	8	67	68	1.6
Breadth - Transportation	8	82	82	1.3
Breadth - Water Resources and Environmental	8	77	72	1.6
Traffic Analysis	9	70	64	1.8
Geometric Design	12	63	64	2.0
Transportation Planning	3	45	59	0.9
Traffic Safety	6	77	70	1.2
Other Topics	10	61	61	1.6

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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:	Civil	PM Exam:	Civil-Water Resources_Environmental
	*Institution	National	

Examinees Taking	9			1,346
Examinees Passing	4			750
Examinees Passing %	44			56
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	54	58	1.7
Breadth - Geotechnical	8	62	64	1.6
Breadth - Structural	8	69	67	1.6
Breadth - Transportation	8	85	73	1.5
Breadth - Water Resources and Environmental	8	92	78	1.5
Hydraulics - Closed Conduit	6	63	66	1.3
Hydraulics - Open Channel	6	76	70	1.4
Hydrology	6	54	60	1.4
Groundwater and Well Fields	3	59	62	0.8
Wastewater Treatment	6	61	64	1.4
Water Quality	6	69	74	1.2
Water Treatment	6	59	60	1.4
Engineering Economics	1	56	41	0.5

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Civil	PM Exam:	Structural I
	*Institution	National	

Examinees Taking	5		320	
Examinees Passing	3		119	
Examinees Passing %	60		37	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Analysis of Structures-Loads	6	67	72	1.1
Analysis of Structures-Lateral Forces	6	67	61	1.3
Analysis of Structures-Lateral Force Distribution	9	53	53	2.0
Analysis of Structures-Methods	4	60	64	0.8
Design and Details of Structures-General Structural C	6	83	80	1.0
Design and Details of Structures-Steel (AISC-AASHT 14		66	55	2.2
Design and Details of Structures-Concrete (AASHTO 13		60	61	2.0
Design and Details of Structures-Wood (NDS-ASD) 7		57	52	1.7
Design and Details of Structures-Masonry (ACI 530-L 7		57	56	1.4
Design and Details of Structures-Foundations & Reta 8		67	60	1.4

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

Examinees Taking	5		838	
Examinees Passing	2		390	
Examinees Passing %	40		47	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
General Power Engineering	24	60	62	3.6
Circuit Analysis	16	40	48	3.0
Rotating Machines & Electromagnetic Devices	16	66	67	2.6
Transmission & Distribution	24	63	67	3.5

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

Examinees Taking	1	2		
Examinees Passing	0	0		
Examinees Passing %	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Computer System	32	31	28	1.4
Hardware	20	25	25	0.0
Software	20	20	35	4.2
Networks	8	12	31	2.1

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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	

Examinees Taking	2				450
Examinees Passing	1				298
Examinees Passing %	50				66
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	
Breadth - Basic Engineering Practice	12	79	69	1.9	
Breadth - Mechanical System and Materials	8	69	70	1.7	
Breadth - Hydraulics and Fluids	7	72	65	1.5	
Breadth - Energy and Power Systems	6	58	48	1.7	
Breadth - HVAC and Refrigeration	7	93	79	1.3	
HVAC - Thermodynamics	3	84	76	0.7	
HVAC - Psychrometrics	6	84	67	1.3	
HVAC - Heat Transfer	5	50	46	1.4	
HVAC - Fluid Mechanics	3	16	35	0.8	
HVAC - Compressible Flow	1	50	61	0.5	
HVAC - Energy Balances	4	62	71	0.9	
HVAC - Equipment and Components	8	88	75	1.5	
HVAC - Systems	7	78	70	1.4	
HVAC - Supportive Knowledge	3	50	57	0.8	

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Mechanical	PM Exam:	Mechanical-Mechanical Systems and Materials
	*Institution	National	

Examinees Taking	5			452	
Examinees Passing	4			292	
Examinees Passing %	80			65	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	
Breadth - Basic Engineering Practice	12	77	75	1.9	
Breadth - Mechanical Systems and Materials	8	80	85	1.3	
Breadth - Hydraulics and Fluids	7	72	69	1.4	
Breadth - Energy and Power Systems	6	67	53	1.7	
Breadth - HVAC and Refrigeration	7	71	68	1.5	
MS&M - Statics	6	63	66	1.3	
MS&M - Kinematics	3	60	59	1.0	
MS&M - Dynamics	4	40	48	1.2	
MS&M - Materials Properties	4	70	71	0.9	
MS&M - Strength of Materials	7	46	51	1.6	
MS&M - Mechanical Components	4	35	69	1.0	
MS&M - Joints and Fasteners	4	70	70	1.0	
MS&M - Vibration/Dynamic Analysis	4	65	51	1.1	
MS&M - Materials and Process	4	90	70	1.0	

* 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.

TERMS AND CONDITIONS OF DATA USE

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

200904
7/20/2009

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:	Mining/Mineral	PM Exam:	Civil-Geotechnical
	*Institution	National	

Examinees Taking	1			7
Examinees Passing	0			1
Examinees Passing %	0			14
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Breadth - Construction	8	62	57	1.3
Breadth - Geotechnical	8	75	70	1.9
Breadth - Structural	8	50	64	1.7
Breadth - Transportation	8	62	57	0.8
Breadth - Water Resources and Environmental	8	100	66	1.7
Subsurface Exploration & Sampling	3	67	72	0.7
Engineering Properties of Soils and Materials	5	60	60	1.2
Soil Mechanics Analysis	5	40	46	1.3
Earthquake Engineering	2	100	79	0.5
Earth Structures	4	25	54	1.1
Shallow Foundations	6	33	40	1.6
Earth Retaining Structures	6	50	59	1.1
Deep Foundations	4	75	71	1.1
Other Topics	5	20	54	1.3

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Principles and Practice of Engineering Examination
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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:	Structural	PM Exam:	Structural I
	*Institution	National	

Examinees Taking	3	175
Examinees Passing	2	72
Examinees Passing %	67	41

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
Analysis of Structures-Loads	6	72	70	1.1
Analysis of Structures-Lateral Forces	6	61	61	1.3
Analysis of Structures-Lateral Force Distribution	9	67	55	2.0
Analysis of Structures-Methods	4	67	64	0.8
Design and Details of Structures-General Structural C 6	100	100	83	1.0
Design and Details of Structures-Steel (AISC-AASHT 14	50	50	55	2.2
Design and Details of Structures-Concrete (AASHTO 13	80	80	62	2.1
Design and Details of Structures-Wood (NDS-ASD) 7	43	43	50	1.6
Design and Details of Structures-Masonry (ACI 530-L 7	52	52	58	1.5
Design and Details of Structures-Foundations & Reta 8	66	66	62	1.4

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