



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

200904
 7/10/2009

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:	FE-General
	*Institution	National	

Examinees Taking	3	31
Examinees Passing	2	17
Examinees Passing %	67	55

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	58	64	3.7
Engineering Probability and Statistics	8	25	45	1.7
Chemistry	11	48	65	1.9
Computers	8	71	63	1.5
Ethics and Business Practices	8	79	84	1.2
Engineering Economics	10	60	70	2.2
Engineering Mechanics (Statics)	8	50	58	1.5
Engineering Mechanics (Dynamics)	5	53	40	1.3
Strength of Materials	8	58	57	1.6
Material Properties	8	50	51	1.7
Fluid Mechanics	8	42	53	1.9
Electricity and Magnetism	11	30	47	2.4
Thermodynamics	8	34	49	2.2

PM Subject				
Advanced Engineering Mathematics	6	55	54	1.4
Engineering Probability and Statistics	5	53	60	1.0
Biology	3	56	56	0.9
Engineering Economics	6	34	61	1.4
Application of Engineering Mechanics	8	34	38	1.8
Engineering of Materials	7	66	51	1.5
Fluids	9	74	68	1.6
Electricity and Magnetism	7	14	40	1.4
Thermodynamics and Heat Transfer	9	56	45	2.0

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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:	Chemical	PM Exam:	FE-General
	*Institution	National	

Examinees Taking	1	224
Examinees Passing	1	154
Examinees Passing %	100	69

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	63	73	3.3
Engineering Probability and Statistics	8	75	56	1.8
Chemistry	11	91	79	1.8
Computers	8	75	66	1.8
Ethics and Business Practices	8	62	81	1.4
Engineering Economics	10	100	75	2.1
Engineering Mechanics (Statics)	8	75	57	1.9
Engineering Mechanics (Dynamics)	5	60	46	1.2
Strength of Materials	8	75	51	1.8
Material Properties	8	62	59	1.7
Fluid Mechanics	8	100	67	1.9
Electricity and Magnetism	11	64	51	2.4
Thermodynamics	8	100	69	2.0

PM Subject				
Advanced Engineering Mathematics	6	67	65	1.2
Engineering Probability and Statistics	5	60	60	1.1
Biology	3	100	62	0.8
Engineering Economics	6	100	62	1.3
Application of Engineering Mechanics	8	38	37	1.5
Engineering of Materials	7	43	51	1.4
Fluids	9	89	64	1.6
Electricity and Magnetism	7	43	45	1.4
Thermodynamics and Heat Transfer	9	78	51	1.8

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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:	Civil	PM Exam:	FE-Civil
	*Institution	National	

Examinees Taking	6	1,543
Examinees Passing	3	708
Examinees Passing %	50	46

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	60	59	3.3
Engineering Probability and Statistics	8	40	41	1.6
Chemistry	11	65	53	2.0
Computers	8	56	54	1.6
Ethics and Business Practices	8	90	80	1.3
Engineering Economics	10	68	68	2.1
Engineering Mechanics (Statics)	8	71	57	1.8
Engineering Mechanics (Dynamics)	5	33	38	1.1
Strength of Materials	8	58	61	1.7
Material Properties	8	42	47	1.6
Fluid Mechanics	8	52	52	1.8
Electricity and Magnetism	11	27	35	2.0
Thermodynamics	8	31	40	1.7

PM Subject				
Surveying	7	64	46	1.3
Hydraulics and Hydrologic Systems	7	57	53	1.4
Soil Mechanics and Foundations	9	26	36	1.7
Environmental Engineering	7	62	61	1.5
Transportation	7	38	43	1.5
Structural Analysis	6	44	43	1.1
Structural Design	6	33	41	1.3
Construction Management	6	80	67	1.1
Materials	5	50	50	1.1

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

Examinees Taking	1	1,446
Examinees Passing	1	513
Examinees Passing %	100	35

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	79	65	3.3
Engineering Probability and Statistics	8	75	45	1.7
Chemistry	11	64	55	2.1
Computers	8	50	54	1.8
Ethics and Business Practices	8	88	76	1.4
Engineering Economics	10	70	67	2.2
Engineering Mechanics (Statics)	8	88	58	1.8
Engineering Mechanics (Dynamics)	5	40	40	1.2
Strength of Materials	8	88	61	1.7
Material Properties	8	62	45	1.6
Fluid Mechanics	8	50	52	1.9
Electricity and Magnetism	11	18	39	2.1
Thermodynamics	8	62	42	1.8

PM Subject				
Advanced Engineering Mathematics	6	83	60	1.2
Engineering Probability and Statistics	5	60	51	1.1
Biology	3	33	46	0.8
Engineering Economics	6	83	56	1.3
Application of Engineering Mechanics	8	38	36	1.6
Engineering of Materials	7	57	48	1.4
Fluids	9	67	50	1.8
Electricity and Magnetism	7	57	42	1.3
Thermodynamics and Heat Transfer	9	33	33	1.6

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

Examinees Taking	1	8
Examinees Passing	1	4
Examinees Passing %	100	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	53	43	3.8
Engineering Probability and Statistics	8	25	44	1.8
Chemistry	11	64	43	2.0
Computers	8	38	61	2.0
Ethics and Business Practices	8	75	84	1.0
Engineering Economics	10	50	69	2.4
Engineering Mechanics (Statics)	8	38	41	1.6
Engineering Mechanics (Dynamics)	5	20	32	1.1
Strength of Materials	8	75	53	1.4
Material Properties	8	50	42	1.1
Fluid Mechanics	8	50	36	0.8
Electricity and Magnetism	11	36	28	1.5
Thermodynamics	8	25	28	0.9

PM Subject				
Engineering Economics	9	44	50	2.0
Probability and Statistics	9	22	50	1.3
Modeling and Computation	7	86	54	1.8
Industrial Management	6	83	56	1.2
Manufacturing and Production Systems	8	50	48	1.4
Facilities and Logistics	7	57	61	1.5
Human Factors, Productivity, Ergonomics, and Work	7	71	43	1.8
Quality	7	86	66	1.3

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

Examinees Taking	5	935
Examinees Passing	3	515
Examinees Passing %	60	55

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	73	71	3.3
Engineering Probability and Statistics	8	42	46	1.7
Chemistry	11	69	59	2.2
Computers	8	70	70	1.8
Ethics and Business Practices	8	80	79	1.4
Engineering Economics	10	66	68	2.3
Engineering Mechanics (Statics)	8	43	48	1.8
Engineering Mechanics (Dynamics)	5	40	41	1.2
Strength of Materials	8	45	42	1.7
Material Properties	8	57	52	1.7
Fluid Mechanics	8	45	42	1.8
Electricity and Magnetism	11	68	69	2.1
Thermodynamics	8	60	47	1.9

PM Subject				
Circuits	10	70	64	1.9
Power	8	63	50	1.8
Electromagnetics	4	65	63	1.0
Control Systems	6	50	50	1.4
Communications	5	56	43	1.1
Signal Processing	5	48	52	1.3
Electronics	9	58	50	2.0
Digital Systems	7	63	56	1.5
Computer Systems	6	60	55	1.6

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Electrical	PM Exam:	FE-General
	*Institution	National	

Examinees Taking	5	599
Examinees Passing	2	230
Examinees Passing %	40	38

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	71	68	3.3
Engineering Probability and Statistics	8	43	44	1.7
Chemistry	11	60	55	2.2
Computers	8	83	64	1.7
Ethics and Business Practices	8	85	79	1.3
Engineering Economics	10	80	67	2.2
Engineering Mechanics (Statics)	8	52	47	1.8
Engineering Mechanics (Dynamics)	5	36	40	1.2
Strength of Materials	8	38	43	1.8
Material Properties	8	52	48	1.7
Fluid Mechanics	8	35	44	1.8
Electricity and Magnetism	11	57	61	2.3
Thermodynamics	8	40	45	1.9

PM Subject				
Advanced Engineering Mathematics	6	63	62	1.2
Engineering Probability and Statistics	5	52	55	1.1
Biology	3	67	44	0.8
Engineering Economics	6	53	56	1.4
Application of Engineering Mechanics	8	50	34	1.4
Engineering of Materials	7	31	43	1.4
Fluids	9	37	43	1.7
Electricity and Magnetism	7	66	59	1.5
Thermodynamics and Heat Transfer	9	40	34	1.7

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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:	Environmental	PM Exam:	FE-General
	*Institution	National	

Examinees Taking	1	89
Examinees Passing	0	49
Examinees Passing %	0	55

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	68	69	3.5
Engineering Probability and Statistics	8	38	49	1.9
Chemistry	11	73	72	1.9
Computers	8	50	64	1.8
Ethics and Business Practices	8	75	78	1.4
Engineering Economics	10	60	73	2.3
Engineering Mechanics (Statics)	8	50	57	1.8
Engineering Mechanics (Dynamics)	5	0	44	1.4
Strength of Materials	8	50	57	1.9
Material Properties	8	38	50	1.6
Fluid Mechanics	8	38	61	1.8
Electricity and Magnetism	11	55	45	2.3
Thermodynamics	8	75	60	2.0

PM Subject				
Advanced Engineering Mathematics	6	67	64	1.4
Engineering Probability and Statistics	5	60	60	1.1
Biology	3	0	57	0.8
Engineering Economics	6	67	60	1.5
Application of Engineering Mechanics	8	38	39	1.4
Engineering of Materials	7	29	48	1.5
Fluids	9	56	62	1.5
Electricity and Magnetism	7	29	48	1.5
Thermodynamics and Heat Transfer	9	56	42	1.7

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	General Engineering	PM Exam:	FE-General
	*Institution		National

Examinees Taking	1	65
Examinees Passing	0	37
Examinees Passing %	0	57

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	58	69	3.5
Engineering Probability and Statistics	8	38	54	1.5
Chemistry	11	45	63	2.1
Computers	8	50	60	1.9
Ethics and Business Practices	8	62	82	1.3
Engineering Economics	10	60	70	2.2
Engineering Mechanics (Statics)	8	62	63	1.8
Engineering Mechanics (Dynamics)	5	40	49	1.4
Strength of Materials	8	50	62	1.6
Material Properties	8	62	57	1.7
Fluid Mechanics	8	75	59	2.1
Electricity and Magnetism	11	36	50	2.5
Thermodynamics	8	38	53	1.9

PM Subject				
Advanced Engineering Mathematics	6	100	66	1.4
Engineering Probability and Statistics	5	60	61	1.0
Biology	3	67	51	0.9
Engineering Economics	6	50	56	1.3
Application of Engineering Mechanics	8	25	39	1.8
Engineering of Materials	7	57	50	1.5
Fluids	9	44	55	1.9
Electricity and Magnetism	7	57	49	1.5
Thermodynamics and Heat Transfer	9	22	41	1.6

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Mechanical	PM Exam:	FE-General
	*Institution	National	

Examinees Taking	2	1,194
Examinees Passing	1	827
Examinees Passing %	50	69

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	50	73	3.4
Engineering Probability and Statistics	8	44	51	1.8
Chemistry	11	50	64	2.1
Computers	8	69	67	1.7
Ethics and Business Practices	8	88	82	1.2
Engineering Economics	10	80	73	2.2
Engineering Mechanics (Statics)	8	56	65	1.9
Engineering Mechanics (Dynamics)	5	60	54	1.3
Strength of Materials	8	62	69	1.6
Material Properties	8	50	65	1.7
Fluid Mechanics	8	82	66	1.9
Electricity and Magnetism	11	27	54	2.5
Thermodynamics	8	25	63	2.0

PM Subject				
Advanced Engineering Mathematics	6	58	66	1.2
Engineering Probability and Statistics	5	70	60	1.0
Biology	3	0	56	0.8
Engineering Economics	6	58	60	1.4
Application of Engineering Mechanics	8	50	46	1.8
Engineering of Materials	7	36	57	1.5
Fluids	9	44	62	1.7
Electricity and Magnetism	7	43	51	1.5
Thermodynamics and Heat Transfer	9	22	48	1.9

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Mining/Mineral	PM Exam:	FE-Civil
	*Institution	National	

Examinees Taking	1	5
Examinees Passing	0	2
Examinees Passing %	0	40

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	53	48	2.8
Engineering Probability and Statistics	8	62	45	1.5
Chemistry	11	55	51	1.1
Computers	8	62	55	1.1
Ethics and Business Practices	8	88	78	1.6
Engineering Economics	10	50	68	2.0
Engineering Mechanics (Statics)	8	62	38	1.2
Engineering Mechanics (Dynamics)	5	20	32	0.5
Strength of Materials	8	50	48	0.4
Material Properties	8	38	55	1.3
Fluid Mechanics	8	38	57	1.1
Electricity and Magnetism	11	27	40	1.7
Thermodynamics	8	12	35	1.6

PM Subject				
Surveying	7	43	46	1.1
Hydraulics and Hydrologic Systems	7	43	54	0.8
Soil Mechanics and Foundations	9	22	15	0.5
Environmental Engineering	7	71	71	1.0
Transportation	7	29	54	1.3
Structural Analysis	6	33	30	1.1
Structural Design	6	50	37	0.8
Construction Management	6	67	70	1.1
Materials	5	40	72	1.3

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	Mining/Mineral	PM Exam:	FE-General
	*Institution	National	

Examinees Taking	1	16
Examinees Passing	1	8
Examinees Passing %	100	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
AM Subject				
Mathematics	19	84	69	3.5
Engineering Probability and Statistics	8	50	47	1.2
Chemistry	11	64	67	1.3
Computers	8	50	64	1.2
Ethics and Business Practices	8	88	85	1.1
Engineering Economics	10	100	74	2.1
Engineering Mechanics (Statics)	8	38	62	1.6
Engineering Mechanics (Dynamics)	5	40	39	1.3
Strength of Materials	8	75	58	1.6
Material Properties	8	50	52	1.7
Fluid Mechanics	8	62	53	2.3
Electricity and Magnetism	11	36	49	2.2
Thermodynamics	8	38	49	2.3

PM Subject				
Advanced Engineering Mathematics	6	50	58	1.2
Engineering Probability and Statistics	5	60	60	1.2
Biology	3	33	52	0.9
Engineering Economics	6	67	59	1.3
Application of Engineering Mechanics	8	12	37	1.7
Engineering of Materials	7	43	45	1.3
Fluids	9	67	54	1.7
Electricity and Magnetism	7	57	45	1.1
Thermodynamics and Heat Transfer	9	33	42	1.3

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