



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

200904  
 7/10/2009

Currently Enrolled	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination (formerly Report 5)			
Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Chemical</b>	PM Exam:	<b>FE-Chemical</b>
	*Institution		National

Examinees Taking	5	839
Examinees Passing	4	706
Examinees Passing %	80	84

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
<b>AM Subject</b>				
Mathematics	19	72	74	3.0
Engineering Probability and Statistics	8	53	58	1.6
Chemistry	11	84	86	1.4
Computers	8	70	69	1.4
Ethics and Business Practices	8	90	80	1.2
Engineering Economics	10	78	76	1.9
Engineering Mechanics (Statics)	8	43	55	1.8
Engineering Mechanics (Dynamics)	5	36	50	1.2
Strength of Materials	8	30	48	1.6
Material Properties	8	65	64	1.5
Fluid Mechanics	8	73	71	1.7
Electricity and Magnetism	11	47	51	2.2
Thermodynamics	8	78	78	1.5

<b>PM Subject</b>				
Chemistry	6	70	65	1.3
Material / Energy Balances	9	71	74	1.8
Chemical Engineering Thermodynamics	6	70	68	1.4
Fluid Dynamics	6	57	54	1.5
Heat Transfer	6	53	56	1.2
Mass Transfer	6	63	55	1.4
Chemical Reaction Engineering	6	57	57	1.4
Process Design and Economic Optimization	6	57	61	1.5
Computer Usage and Chemical Engineering	3	53	68	0.8
Process Control	3	47	60	0.8
Safety, Health, and Environmental	3	47	60	0.84

\* 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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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Civil</b>	PM Exam:	<b>FE-Civil</b>
	*Institution	National	

Examinees Taking	37	4,465
Examinees Passing	33	3,516
Examinees Passing %	89	79

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
<b>AM Subject</b>				
Mathematics	19	72	67	3.3
Engineering Probability and Statistics	8	50	53	1.6
Chemistry	11	72	64	2.1
Computers	8	65	62	1.5
Ethics and Business Practices	8	84	83	1.2
Engineering Economics	10	79	76	2.0
Engineering Mechanics (Statics)	8	72	69	1.7
Engineering Mechanics (Dynamics)	5	54	49	1.2
Strength of Materials	8	69	69	1.5
Material Properties	8	57	56	1.6
Fluid Mechanics	8	66	66	1.8
Electricity and Magnetism	11	39	44	2.1
Thermodynamics	8	48	53	1.8

<b>PM Subject</b>				
Surveying	7	56	51	1.3
Hydraulics and Hydrologic Systems	7	64	62	1.5
Soil Mechanics and Foundations	9	50	45	1.9
Environmental Engineering	7	74	73	1.4
Transportation	7	61	53	1.5
Structural Analysis	6	45	48	1.1
Structural Design	6	50	51	1.4
Construction Management	6	76	72	1.0
Materials	5	74	59	1.1

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

Examinees Taking	38	2,722
Examinees Passing	36	2,296
Examinees Passing %	95	84

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
<b>AM Subject</b>				
Mathematics	19	77	76	3.0
Engineering Probability and Statistics	8	52	55	1.6
Chemistry	11	69	67	1.9
Computers	8	73	70	1.5
Ethics and Business Practices	8	83	81	1.2
Engineering Economics	10	72	75	2.0
Engineering Mechanics (Statics)	8	73	69	1.7
Engineering Mechanics (Dynamics)	5	65	60	1.2
Strength of Materials	8	79	73	1.3
Material Properties	8	64	70	1.5
Fluid Mechanics	8	67	70	1.7
Electricity and Magnetism	11	62	60	2.2
Thermodynamics	8	70	70	1.7

<b>PM Subject</b>				
Advanced Engineering Mathematics	6	78	71	1.2
Engineering Probability and Statistics	5	67	65	1.0
Biology	3	61	56	0.8
Engineering Economics	6	57	62	1.3
Application of Engineering Mechanics	8	55	50	1.7
Engineering of Materials	7	63	59	1.4
Fluids	9	65	66	1.6
Electricity and Magnetism	7	47	54	1.5
Thermodynamics and Heat Transfer	9	51	53	1.8

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

Examinees Taking	2	1,912
Examinees Passing	0	1,577
Examinees Passing %	0	82

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
<b>AM Subject</b>				
Mathematics	19	84	75	3.0
Engineering Probability and Statistics	8	56	55	1.6
Chemistry	11	60	66	2.0
Computers	8	75	72	1.5
Ethics and Business Practices	8	88	81	1.2
Engineering Economics	10	70	74	1.9
Engineering Mechanics (Statics)	8	75	70	1.7
Engineering Mechanics (Dynamics)	5	70	59	1.3
Strength of Materials	8	75	74	1.4
Material Properties	8	68	72	1.5
Fluid Mechanics	8	44	72	1.6
Electricity and Magnetism	11	50	59	2.2
Thermodynamics	8	56	71	1.7

<b>PM Subject</b>				
Mechanical Design and Analysis	9	28	57	1.5
Kinematics, Dynamics, and Vibrations	9	33	63	1.6
Materials and Processing	6	42	71	1.2
Measurements, Instrumentation, and Controls	6	58	54	1.3
Thermodynamics and Energy Conversion Processes	9	38	52	1.7
Fluid Mechanics and Fluid Machinery	9	34	48	1.7
Heat Transfer	6	34	65	1.5
Refrigeration and HVAC	6	25	41	1.3

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Board:	Kentucky	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major:	<b>Metallurgical</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	

Examinees Taking	1	20
Examinees Passing	1	15
Examinees Passing %	100	75

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
<b>AM Subject</b>				
Mathematics	19	74	62	3.2
Engineering Probability and Statistics	8	50	49	1.3
Chemistry	11	73	79	1.6
Computers	8	75	64	1.2
Ethics and Business Practices	8	75	78	1.4
Engineering Economics	10	70	70	2.0
Engineering Mechanics (Statics)	8	62	68	1.4
Engineering Mechanics (Dynamics)	5	60	47	1.5
Strength of Materials	8	88	70	1.1
Material Properties	8	88	87	1.0
Fluid Mechanics	8	50	63	1.8
Electricity and Magnetism	11	55	48	2.3
Thermodynamics	8	62	60	1.6

<b>PM Subject</b>				
Advanced Engineering Mathematics	6	67	63	1.2
Engineering Probability and Statistics	5	80	69	0.8
Biology	3	67	63	0.6
Engineering Economics	6	67	57	1.2
Application of Engineering Mechanics	8	62	51	1.7
Engineering of Materials	7	100	74	1.1
Fluids	9	67	51	1.8
Electricity and Magnetism	7	29	52	1.7
Thermodynamics and Heat Transfer	9	44	45	1.2

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Board Code:	71	School Code:	7101
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>FE-General</b>
	*Institution	National	

Examinees Taking	5	80
Examinees Passing	1	51
Examinees Passing %	20	64

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
<b>AM Subject</b>				
Mathematics	19	53	66	3.6
Engineering Probability and Statistics	8	53	52	1.6
Chemistry	11	51	62	1.9
Computers	8	60	65	1.4
Ethics and Business Practices	8	67	81	1.4
Engineering Economics	10	70	79	2.0
Engineering Mechanics (Statics)	8	27	62	1.8
Engineering Mechanics (Dynamics)	5	36	51	1.4
Strength of Materials	8	40	59	1.6
Material Properties	8	40	56	1.6
Fluid Mechanics	8	57	66	1.9
Electricity and Magnetism	11	38	50	2.2
Thermodynamics	8	50	60	2.1

<b>PM Subject</b>				
Advanced Engineering Mathematics	6	53	62	1.3
Engineering Probability and Statistics	5	64	63	0.9
Biology	3	40	58	0.8
Engineering Economics	6	40	66	1.3
Application of Engineering Mechanics	8	35	43	1.5
Engineering of Materials	7	40	53	1.5
Fluids	9	40	56	1.6
Electricity and Magnetism	7	40	46	1.4
Thermodynamics and Heat Transfer	9	26	41	1.6

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