

**NCEES**  
**Principles and Practice of Engineering Examination**  
 ABET - Accredited Programs

Graduates **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Agricultural**

Institution: **University of Kentucky, Lexington**  
 School Code: **7101**  
 PM Exam **PE - Environmental**

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	5	2		
Examinees Passing	0	1	0		
Examinees Passing %	0	20	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct***
<b>Subject</b>					
Water: Basic Principles	4	75	50	1.0	50
Water: Wastewater	10	50	60	2.0	45
Water: Stormwater	4	50	50	1.0	38
Water: Potable Water	10	70	52	1.8	50
Water: Water Resources	4	75	45	1.3	38
Solid Waste: Basic Principles	3	67	60	0.4	50
Solid Waste: Municipal and Industrial Solid Waste	6	50	53	0.8	50
Solid Waste: Hazardous Waste	6	67	53	0.8	58
Solid Waste: Medical; Radioactive; Other Waste	3	67	47	0.5	50
Air: Basic Principles	7	71	60	1.6	71
Air: Pollution Control	16	63	59	1.5	63
Site Assessment and Remediation: Basic Principles	5	60	60	1.2	60
Site Assessment and Remediation: Site Assessment	3	0	47	0.9	33
Site Assessment and Remediation: Remediation	4	50	40	0.9	50
Environmental Health and Safety: Industrial Hygiene; Health; Safety	1	0	40	0.5	0
Environmental Health and Safety: Security; Emergency Preparedness; Incident Response Procedures	2	50	40	0.8	75
Environmental Health and Safety: Exposure Assessments	1	100	80	0.4	100
Environmental Health and Safety: Radiation Protection and Health Physics	1	0	60	0.5	50
Environmental Health and Safety: Indoor Air Quality	1	100	80	0.4	100
Environmental Health and Safety: Codes; Standards; Regulations; Guidelines	2	50	80	0.5	75
Associated Engineering Principles: Mathematics and Statistics	2	50	70	0.9	75
Associated Engineering Principles: Economics and Project Management	3	100	80	0.9	67
Associated Engineering Principles: Sustainable Design	1	100	100	0.0	100
Associated Engineering Principles: Mass and Energy Balance	1	100	60	0.5	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.

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Graduates Subject Matter Report by Major and PM Examination	<b>Engineering</b>	Institution:	<b>University of Kentucky, Lexington</b>
Board Code:	<b>71</b>	School Code:	<b>7101</b>
Major	<b>Agricultural</b>	PM Exam	<b>PE - Civil - Transportation</b>

	*Institution	National	Carnegie Comparator
Examinees Taking	1	7	1
Examinees Passing	1	4	1
Examinees Passing %	100	57	100

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**AM Subject**

Construction	8	100	75	1.2	100
Geotechnical	8	63	55	1.4	63
Structural	8	75	59	1.5	75
Transportation	8	100	86	1.9	100
Water Resources & Environmental	8	88	77	1.1	88

**PM Subject**

Traffic Analysis	9	67	59	1.4	67
Geometric Design	12	75	51	2.5	75
Transportation Planning	3	100	57	0.8	100
Traffic Safety	6	67	69	1.3	67
Other Topics	10	100	69	1.8	100

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Board Code:	<b>71</b>	School Code:		<b>7101</b>
Major	<b>Agricultural</b>	PM Exam		<b>PE - Civil - Water Resources and Environmental</b>

	*Institution	National	Carnegie Comparator
Examinees Taking	1	35	12
Examinees Passing	1	27	12
Examinees Passing %	100	77	100

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**AM Subject**

Construction	8	75	78	1.2	82
Geotechnical	8	75	56	1.5	57
Structural	8	63	64	1.5	66
Transportation	8	63	75	1.7	82
Water Resources & Environmental	8	88	86	1.1	90

**PM Subject**

Hydraulics -- Closed Conduit	6	50	58	1.3	49
Hydraulics -- Open Channel	6	50	67	1.5	75
Hydrology	6	100	64	1.3	72
Groundwater and Well Fields	3	67	72	0.9	67
Wastewater Treatment	6	100	76	1.6	78
Water Quality	6	83	76	1.2	75
Water Treatment	6	100	79	1.0	82
Engineering Economics	1	100	46	0.5	50

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Graduates Subject Matter Report by Major and PM Examination	<b>Engineering</b>	Institution: School Code: PM Exam	<b>University of Kentucky, Lexington</b> <b>7101</b> <b>PE - Environmental</b>
Board Code: Major	<b>71</b> <b>Chemical</b>		

	*Institution	National		Carnegie Comparator
Examinees Taking	2	55		17
Examinees Passing	1	25		8
Examinees Passing %	50	45		47

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation	Prof+A&S/HGC AVG % Correct ***
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**Subject**

Water: Basic Principles	4	38	66	1.0	68
Water: Wastewater	10	60	62	1.7	62
Water: Stormwater	4	50	64	0.9	62
Water: Potable Water	10	50	57	1.9	62
Water: Water Resources	4	75	61	1.0	68
Solid Waste: Basic Principles	3	17	52	0.9	57
Solid Waste: Municipal and Industrial Solid Waste	6	58	62	1.1	63
Solid Waste: Hazardous Waste	6	58	47	1.3	52
Solid Waste: Medical; Radioactive; Other Waste	3	67	48	0.9	45
Air: Basic Principles	7	71	64	1.4	67
Air: Pollution Control	16	78	66	2.9	65
Site Assessment and Remediation: Basic Principles	5	40	68	1.2	72
Site Assessment and Remediation: Site Assessment	3	33	53	0.9	57
Site Assessment and Remediation: Remediation	4	75	58	0.8	59
Environmental Health and Safety: Industrial Hygiene; Health; Safety	1	50	60	0.5	82
Environmental Health and Safety: Security; Emergency Preparedness; Incident Response Procedures	2	50	43	0.7	35
Environmental Health and Safety: Exposure Assessments	1	50	82	0.4	88
Environmental Health and Safety: Radiation Protection and Health Physics	1	100	58	0.5	76
Environmental Health and Safety: Indoor Air Quality	1	100	65	0.5	82
Environmental Health and Safety: Codes; Standards; Regulations; Guidelines	2	100	82	0.6	85
Associated Engineering Principles: Mathematics and Statistics	2	100	79	0.6	74
Associated Engineering Principles: Economics and Project Management	3	67	76	0.7	75
Associated Engineering Principles: Sustainable Design	1	0	76	0.4	65
Associated Engineering Principles: Mass and Energy Balance	1	0	64	0.5	65

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Graduates **Engineering**  
 Subject Matter Report by Major and PM Examination

Board Code: **71**  
 Major **Civil**

Institution: **University of Kentucky, Lexington**  
 School Code: **7101**  
 PM Exam **PE - Civil - Construction**

	*Institution	National	Carnegie Comparator		
Examinees Taking	4	794	194		
Examinees Passing	2	387	111		
Examinees Passing %	50	49	57		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Construction	8	81	80	1.3	81
Geotechnical	8	63	59	1.5	62
Structural	8	50	66	1.6	68
Transportation	8	91	73	1.6	76
Water Resources & Environmental	8	84	68	1.5	71

**PM Subject**

Earthwork Construction & Layout	4	88	71	1.0	72
Estimating Quantities & Costs	7	68	67	1.4	70
Construction Operations & Methods	6	58	60	1.2	64
Scheduling	7	46	70	1.2	71
Material Quality Control & Production	4	63	67	0.9	70
Temporary Structures	5	60	42	1.0	45
Worker - Health & Safety & Environment	3	83	70	0.8	71
Other Topics	4	19	27	0.9	28

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Graduates	<b>Engineering</b>		
Subject Matter Report by Major and PM Examination			
Board Code:	<b>71</b>	Institution:	<b>University of Kentucky, Lexington</b>
Major	<b>Civil</b>	School Code:	<b>7101</b>
		PM Exam	<b>PE - Civil - Geotechnical</b>

	*Institution	National	Carnegie Comparator		
Examinees Taking	3	403	98		
Examinees Passing	2	211	51		
Examinees Passing %	67	52	52		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Construction	8	83	77	1.5	78
Geotechnical	8	79	72	1.5	73
Structural	8	67	68	1.6	73
Transportation	8	79	72	1.6	73
Water Resources & Environmental	8	75	68	1.6	69

**PM Subject**

Subsurface Exploration & Sampling	3	89	85	0.6	85
Engineering Properties of Soils & Materials	5	53	64	1.1	64
Soil Mechanics Analysis	5	33	61	1.2	62
Earthquake Engineering	2	33	59	0.7	57
Earth Structures	4	75	67	1.0	71
Shallow Foundations	6	44	43	1.2	40
Earth Retaining Structures	6	39	50	1.3	49
Deep Foundations	4	92	75	0.9	77
Other Topics	5	67	66	1.1	67

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Subject Matter Report by Major and PM Examination			
Board Code: <b>71</b>		School Code: <b>7101</b>	
Major <b>Civil</b>		PM Exam <b>PE - Civil - Structural</b>	

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>
Examinees Taking	4	591	146
Examinees Passing	3	404	102
Examinees Passing %	75	68	70

	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>
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**AM Subject**

Construction	8	94	85	1.4	84
Geotechnical	8	81	66	1.5	66
Structural	8	84	84	1.2	83
Transportation	8	88	77	1.5	76
Water Resources & Environmental	8	88	72	1.5	72

**PM Subject**

Loadings	5	85	72	1.1	74
Analysis	5	60	55	1.2	55
Mechanics of Materials	5	65	70	1.0	68
Materials	5	50	58	1.3	59
Member Design	10	60	64	1.9	63
Design Criteria	5	65	62	1.2	63
Other Topics	5	55	61	1.2	62

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Board Code:	<b>71</b>	School Code:	<b>7101</b>
Major	<b>Civil</b>	PM Exam	<b>PE - Civil - Transportation</b>

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>
Examinees Taking	17	1,674	449
Examinees Passing	13	1,015	314
Examinees Passing %	76	61	70

	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>
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**AM Subject**

Construction	8	84	75	1.4	77
Geotechnical	8	57	56	1.5	57
Structural	8	71	60	1.7	62
Transportation	8	90	79	1.4	81
Water Resources & Environmental	8	76	69	1.5	72

**PM Subject**

Traffic Analysis	9	61	60	1.7	64
Geometric Design	12	70	64	2.1	66
Transportation Planning	3	63	61	0.9	64
Traffic Safety	6	66	62	1.3	63
Other Topics	10	74	70	1.8	73

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Graduates	<b>Engineering</b>	Institution:	<b>University of Kentucky, Lexington</b>
Subject Matter Report by Major and PM Examination		School Code:	<b>7101</b>
Board Code:	<b>71</b>	PM Exam	<b>PE - Civil - Water Resources and</b>
Major	<b>Civil</b>	<b>Environmental</b>	

	*Institution	National	Carnegie Comparator
Examinees Taking	8	926	245
Examinees Passing	4	535	166
Examinees Passing %	50	58	68

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**AM Subject**

Construction	8	78	76	1.5	79
Geotechnical	8	61	56	1.5	59
Structural	8	55	61	1.6	62
Transportation	8	77	74	1.5	76
Water Resources & Environmental	8	77	78	1.4	79

**PM Subject**

Hydraulics -- Closed Conduit	6	54	53	1.3	57
Hydraulics -- Open Channel	6	69	68	1.3	71
Hydrology	6	56	59	1.3	61
Groundwater and Well Fields	3	79	72	0.8	74
Wastewater Treatment	6	67	66	1.6	67
Water Quality	6	67	73	1.2	74
Water Treatment	6	67	66	1.4	70
Engineering Economics	1	75	42	0.5	48

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Board Code:	<b>71</b>	School Code:	<b>7101</b>
Major	<b>Electrical</b>	PM Exam	<b>PE - Electrical and Computer: Power</b>

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>
Examinees Taking	10	885	245
Examinees Passing	7	426	142
Examinees Passing %	70	48	58

	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>
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**Subject**

General Power Engineering: Measurement & Instrumentation	6	53	50	1.2	51
General Power Engineering: Special Applications	8	69	66	1.5	68
General Power Engineering: Codes & Standards	10	74	71	1.8	73
Circuit Analysis: Analysis	9	58	54	2.0	57
Circuit Analysis: Devices & Power Electronic Circuits	7	67	61	1.4	62
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	63	64	1.7	67
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	65	62	1.3	65
Transmissions & Distribution: System Analysis	9	62	52	1.8	55
Transmissions & Distribution: Power System Performance	7	64	59	1.4	61
Transmissions & Distribution: Protection	8	64	58	1.5	60

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Board Code:	<b>71</b>	School Code:	<b>7101</b>
Major	<b>Electrical</b>	PM Exam	<b>PE - Environmental</b>

	*Institution	National	Carnegie Comparator
Examinees Taking	1	3	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**Subject**

Water: Basic Principles	4	50	67	0.6	50
Water: Wastewater	10	70	63	0.6	70
Water: Stormwater	4	100	67	1.5	100
Water: Potable Water	10	50	63	1.2	50
Water: Water Resources	4	0	25	1.0	0
Solid Waste: Basic Principles	3	33	44	0.6	33
Solid Waste: Municipal and Industrial Solid Waste	6	50	50	0.0	50
Solid Waste: Hazardous Waste	6	50	33	1.0	50
Solid Waste: Medical; Radioactive; Other Waste	3	33	33	0.0	33
Air: Basic Principles	7	57	62	0.6	57
Air: Pollution Control	16	63	52	1.5	63
Site Assessment and Remediation: Basic Principles	5	20	40	1.7	20
Site Assessment and Remediation: Site Assessment	3	67	33	1.0	67
Site Assessment and Remediation: Remediation	4	25	42	0.6	25
Environmental Health and Safety: Industrial Hygiene; Health; Safety	1	100	100	0.0	100
Environmental Health and Safety: Security; Emergency Preparedness; Incident Response Procedures	2	0	17	0.6	0
Environmental Health and Safety: Exposure Assessments	1	100	100	0.0	100
Environmental Health and Safety: Radiation Protection and Health Physics	1	0	33	0.6	0
Environmental Health and Safety: Indoor Air Quality	1	0	67	0.6	0
Environmental Health and Safety: Codes; Standards; Regulations; Guidelines	2	100	83	0.6	100
Associated Engineering Principles: Mathematics and Statistics	2	0	33	0.6	0
Associated Engineering Principles: Economics and Project Management	3	67	78	0.6	67
Associated Engineering Principles: Sustainable Design	1	100	67	0.6	100
Associated Engineering Principles: Mass and Energy Balance	1	100	33	0.6	100

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Subject Matter Report by Major and PM Examination		School Code:	<b>7101</b>
Board Code:	<b>71</b>	PM Exam	<b>PE - Mechanical - HVAC and</b>
Major	<b>Mechanical</b>	<b>Refrigeration</b>	

	*Institution	National	Carnegie Comparator		
Examinees Taking	3	479	156		
Examinees Passing	3	359	115		
Examinees Passing %	100	75	74		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Basic Engineering Practice	12	75	78	1.7	78
Mechanical Systems & Materials: Principles	5	53	69	1.0	69
Mechanical Systems & Materials: Applications	3	56	64	0.9	64
Hydraulics & Fluids: Principles	3	67	55	0.8	56
Hydraulics & Fluids: Applications	4	83	75	0.9	75
Energy & Power Systems: Principles	3	67	54	0.9	55
Energy & Power Systems: Applications	3	67	62	0.8	62
HVAC & Refrigeration: Principles	4	83	84	0.9	84
HVAC & Refrigeration: Applications	3	89	76	0.8	76

**PM Subject**

Principles: Thermodynamics	3	78	59	1.0	56
Principles: Psychrometrics	6	56	58	1.1	59
Principles: Heat Transfer	5	60	53	1.1	54
Principles: Fluid Mechanics	3	33	49	0.8	50
Principles: Compressible Flow	1	67	64	0.5	62
Principles: Energy Balances	4	75	72	1.1	71
Applications: Equipment and Components	8	75	72	1.6	72
Applications: Systems	7	57	60	1.5	60
Applications: Supportive Knowledges	3	56	61	0.8	60

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**NCEES**  
**Principles and Practice of Engineering Examination**  
 ABET - Accredited Programs

Graduates	<b>Engineering</b>	Institution:	<b>University of Kentucky, Lexington</b>
Subject Matter Report by Major and PM Examination		School Code:	<b>7101</b>
Board Code:	<b>71</b>	PM Exam	<b>PE - Mechanical - Mechanical Systems</b>
Major	<b>Mechanical</b>	<b>and Materials</b>	

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	2	412	109		
Examinees Passing	1	245	69		
Examinees Passing %	50	59	63		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Basic Engineering Practice	12	79	80	1.6	81
Mechanical Systems & Materials: Principles	5	60	75	1.0	76
Mechanical Systems & Materials: Applications	3	83	78	0.8	82
Hydraulics & Fluids: Principles	3	50	58	0.8	58
Hydraulics & Fluids: Applications	4	88	68	0.9	67
Energy & Power Systems: Principles	3	17	54	1.0	54
Energy & Power Systems: Applications	3	50	58	0.8	55
HVAC & Refrigeration: Principles	4	50	67	1.1	67
HVAC & Refrigeration: Applications	3	50	55	0.9	56

**PM Subject**

Principles: Statics (free-body diagrams)	6	33	50	1.3	49
Principles: Kinematics (linear & rotational motion)	3	67	53	0.8	54
Principles: Dynamics (particle & rigid body)	4	38	45	1.1	44
Principles: Materials Properties (physical)	4	63	76	1.0	77
Principles: Strength of Materials (stress & strain)	7	57	51	1.7	49
Applications: Mechanical Components	4	63	59	1.1	61
Applications: Joints & Fasteners	4	75	54	1.0	50
Applications: Vibration & Dynamic Analysis	4	75	49	1.1	52
Applications: Materials & Process	4	63	63	1.0	66

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**NCEES**  
**Principles and Practice of Engineering Examination**  
 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	<b>Engineering</b>	Institution:	<b>University of Kentucky, Lexington</b>
Board Code:	<b>71</b>	School Code:	<b>7101</b>
Major	<b>Mining/Mineral</b>	PM Exam	<b>PE - Civil - Geotechnical</b>

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	2	1		
Examinees Passing	1	1	1		
Examinees Passing %	100	50	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Construction	8	75	75	0.0	75
Geotechnical	8	75	63	1.4	75
Structural	8	75	63	1.4	75
Transportation	8	100	81	2.1	100
Water Resources & Environmental	8	88	75	1.4	88

**PM Subject**

Subsurface Exploration & Sampling	3	67	83	0.7	67
Engineering Properties of Soils & Materials	5	80	70	0.7	80
Soil Mechanics Analysis	5	60	50	0.7	60
Earthquake Engineering	2	0	25	0.7	0
Earth Structures	4	50	50	0.0	50
Shallow Foundations	6	50	42	0.7	50
Earth Retaining Structures	6	50	42	0.7	50
Deep Foundations	4	75	63	0.7	75
Other Topics	5	60	80	1.4	60

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**NCEES**  
**Principles and Practice of Engineering Examination**  
 ABET - Accredited Programs

Graduates <b>Engineering</b>		Institution: <b>University of Kentucky, Lexington</b>	
Subject Matter Report by Major and PM Examination			
Board Code: <b>71</b>		School Code: <b>7101</b>	
Major: <b>Mining/Mineral</b>		PM Exam: <b>PE - Civil - Transportation</b>	

	*Institution	National	Carnegie Comparator
Examinees Taking	1	1	1
Examinees Passing	1	1	1
Examinees Passing %	100	100	100

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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**AM Subject**

Construction	8	75	75	0.0	75
Geotechnical	8	75	75	0.0	75
Structural	8	50	50	0.0	50
Transportation	8	88	88	0.0	88
Water Resources & Environmental	8	63	63	0.0	63

**PM Subject**

Traffic Analysis	9	78	78	0.0	78
Geometric Design	12	67	67	0.0	67
Transportation Planning	3	67	67	0.0	67
Traffic Safety	6	83	83	0.0	83
Other Topics	10	70	70	0.0	70

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