

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington	
Major:	Agricultural	PE Examination: Agricultural and Biological Engineering

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	12		
No. Examinees Passing	0	10		
Percent Examinees Passing	0%	83%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Common System Applications	20	60.0	61.3	1.8
Natural Resources and Ecology	15	40.0	65.6	1.7
Process Engineering	15	53.3	60.0	1.9
Facilities	15	20.0	54.4	2.5
Machines	15	26.7	51.1	2.8

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- Comparator includes all examinees from programs accredited by the ABET commission noted.
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TERMS AND CONDITIONS OF DATA USE

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Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	PE Examination:	Architectural

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	1		
No. Examinees Passing	1	1		
Percent Examinees Passing	100%	100%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Building Systems Integration	14	35.7	35.7	0.0
Electrical Systems	20	65.0	65.0	0.0
Mechanical Systems	20	75.0	75.0	0.0
Structural Systems	20	75.0	75.0	0.0
Project Management & Construction Administration	6	66.7	66.7	0.0

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Name of Institution:	University of Kentucky, Lexington		
Major:	Civil	PE Examination:	Civil-Construction

	Institution	ABET Comparator ²
No. Examinees Taking ¹	9	656
No. Examinees Passing	7	399
Percent Examinees Passing	78%	61%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	83.3	67.8	1.1
Means and Methods	3	22.2	48.0	0.8
Soil Mechanics	6	72.2	75.3	1.2
Structural Mechanics	6	59.3	68.1	1.2
Hydraulics and Hydrology	7	71.4	74.5	1.4
Geometrics	3	74.1	79.0	0.7
Materials	6	90.7	80.1	1.1
Site Development	5	71.1	76.8	0.9
Earthwork Construction and Layout	6	63.0	67.6	1.3
Estimating Quantities and Costs	6	68.5	69.9	1.3
Construction Operations and Methods	7	58.7	58.8	1.5
Scheduling	5	86.7	80.5	1.0
Material Quality Control and Production	6	66.7	63.5	1.2
Temporary Structures	7	46.0	48.8	1.5
Construction Health and Safety	3	66.7	67.0	0.9

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Name of Institution:	University of Kentucky, Lexington		
Major:	Civil	PE Examination:	Civil-Geotechnical

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	328		
No. Examinees Passing	1	212		
Percent Examinees Passing	100%	65%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	64.4	1.0
Means and Methods	3	33.3	59.8	0.9
Soil Mechanics	6	66.7	84.9	1.0
Structural Mechanics	6	50.0	76.7	1.1
Hydraulics and Hydrology	7	85.7	77.0	1.4
Geometrics	3	66.7	81.1	0.7
Materials	6	83.3	87.0	0.9
Site Development	5	80.0	76.0	0.9
Site Characterization	5	80.0	77.3	1.1
Soil Mechanics Laboratory Testing and Analysis	5	80.0	65.1	1.2
Field Materials Testing; Methods; and Safety	3	66.7	63.8	0.9
Earthquake Engineering and Dynamic Loads	2	0.0	46.8	0.7
Earth Structures	4	75.0	66.6	1.1
Groundwater and Seepage	3	66.7	63.6	0.9
Problematic Soil and Rock Conditions	3	100.0	68.9	0.8
Earth Retaining Structures (ASD or LRFD)	5	60.0	55.7	1.3
Shallow Foundations (ASD or LRFD)	5	80.0	58.7	1.1
Deep Foundations (ASD or LRFD)	5	40.0	61.4	1.2

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Name of Institution:		University of Kentucky, Lexington	
Major:	Civil	PE Examination:	Civil-Structural

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	5	801		
No. Examinees Passing	3	551		
Percent Examinees Passing	60%	69%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	65.0	63.3	1.0
Means and Methods	3	80.0	64.1	0.8
Soil Mechanics	6	86.7	81.5	1.0
Structural Mechanics	6	86.7	89.2	0.9
Hydraulics and Hydrology	7	80.0	77.8	1.4
Geometrics	3	80.0	81.6	0.7
Materials	6	90.0	82.3	1.1
Site Development	5	68.0	76.8	0.9
Analysis of Structures: Load and load applications	4	75.0	64.1	1.1
Analysis of Structures: Forces and load effects	10	70.0	68.4	1.7
Design and Details of Structures: Materials and material properties	5	72.0	71.1	1.2
Design and Details of Structures: Component design and detailing	15	57.3	58.1	2.5
Codes and Construction: Codes; standards; and guidance documents	4	45.0	58.6	1.1
Codes and Construction: Temporary structures and other topics	2	60.0	62.7	0.7

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Name of Institution:		University of Kentucky, Lexington	
Major:	Civil	PE Examination:	Civil-Transportation

	Institution	ABET Comparator ²		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	Number of Exam Questions	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	13	925		
No. Examinees Passing	7	638		
Percent Examinees Passing	54%	69%		
Project Planning	65.4	57.8	4	1.0
Means and Methods	35.9	42.1	3	0.8
Soil Mechanics	69.2	73.5	6	1.1
Structural Mechanics	61.5	66.8	6	1.3
Hydraulics and Hydrology	64.8	75.3	7	1.4
Geometrics	82.1	83.1	3	0.7
Materials	73.1	76.4	6	1.2
Site Development	83.1	80.6	5	0.9
Traffic Engineering (Capacity Analysis and Transportation Planning)	49.0	65.7	11	1.8
Horizontal Design	53.8	66.8	4	1.1
Vertical Design	67.3	71.2	4	1.1
Intersection Geometry	55.8	72.9	4	0.9
Roadside and Cross Section Design	76.9	73.5	4	0.9
Signal Design	66.7	74.2	3	0.8
Traffic Control Design	71.8	67.8	3	1.0
Geotechnical and Pavement	53.8	60.4	4	1.0
Drainage	57.7	56.8	2	0.7
Alternatives Analysis	61.5	66.1	1	0.5

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Name of Institution:		University of Kentucky, Lexington	
Major:	Civil	PE Examination:	Civil-Water Resources and Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	7	749		
No. Examinees Passing	7	538		
Percent Examinees Passing	100%	72%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	82.1	61.9	1.0
Means and Methods	3	57.1	43.6	0.7
Soil Mechanics	6	81.0	72.9	1.2
Structural Mechanics	6	73.8	66.6	1.2
Hydraulics and Hydrology	7	87.8	82.3	1.3
Geometrics	3	85.7	79.7	0.7
Materials	6	71.4	77.5	1.2
Site Development	5	74.3	75.6	0.9
Analysis and Design	4	82.1	70.7	0.8
Hydraulics Closed Conduit	5	57.1	54.1	1.2
Hydraulics Open Channel	5	65.7	69.5	1.0
Hydrology	7	79.6	66.6	1.5
Groundwater and Wells	3	71.4	70.9	0.8
Wastewater Collection and Treatment	6	83.3	69.9	1.2
Water Quality	3	76.2	68.6	0.7
Drinking Water Distribution and Treatment	6	71.4	62.8	1.4
Engineering Economics Analysis	1	71.4	45.5	0.5

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Name of Institution:	University of Kentucky, Lexington		
Major:	Civil	PE Examination:	Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	49		
No. Examinees Passing	0	31		
Percent Examinees Passing	0%	63%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Basic Principles	4	75.0	76.0	0.9
Water: Wastewater	10	20.0	59.4	1.7
Water: Stormwater	4	75.0	68.4	0.7
Water: Potable Water	10	40.0	52.9	1.9
Water: Water Resources	4	50.0	65.3	1.1
Solid Waste: Basic Principles	4	50.0	49.5	1.0
Solid Waste: Municipal and Industrial Solid Waste	5	60.0	74.3	1.0
Solid Waste: Hazardous Waste	6	83.3	79.3	0.9
Solid Waste: Medical; Radioactive; Other Waste	3	33.3	42.2	0.9
Air: Basic Principles	8	75.0	70.7	1.6
Air: Pollution Control	15	60.0	72.8	2.4
Site Assessment and Remediation: Basic Principles	5	40.0	70.6	1.2
Site Assessment and Remediation: Site Assessment	3	66.7	76.9	0.7
Site Assessment and Remediation: Remediation	4	50.0	77.6	0.9
Environmental Health and Safety: Environmental Health and Safety	8	50.0	64.5	1.7
Associated Engineering Principles: Associated Engineering Principles	7	85.7	83.1	1.2

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Name of Institution:	University of Kentucky, Lexington		
Major:	Computer	PE Examination:	Electrical and Computer: Power

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	12		
No. Examinees Passing	1	8		
Percent Examinees Passing	100%	67%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Power Engineering: Measurement & Instrumentation	6	83.3	75.0	1.1
General Power Engineering: Special Applications	8	62.5	62.5	1.3
General Power Engineering: Codes & Standards	10	60.0	63.3	1.2
Circuit Analysis: Analysis	9	66.7	53.7	2.0
Circuit Analysis: Devices & Power Electronic Circuits	7	57.1	61.9	0.8
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	80.0	60.0	1.4
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	66.7	66.7	1.1
Transmissions & Distribution: System Analysis	10	80.0	63.3	1.9
Transmissions & Distribution: Power System Performance	6	50.0	58.3	1.7
Transmissions & Distribution: Protection	8	87.5	62.5	1.5

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Name of Institution:		University of Kentucky, Lexington	
Major:	Electrical	PE Examination:	Electrical and Computer: Electrical and Electronics

		Institution	ABET Comparator ²	
No. Examinees Taking ¹		1	61	
No. Examinees Passing		1	43	
Percent Examinees Passing		100%	70%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Electrical Engineering Knowledge: Circuit Analysis	20	90.0	65.8	3.6
General Electrical Engineering Knowledge: Measurement & Instrumentation	8	62.5	59.6	1.8
General Electrical Engineering Knowledge: Safety & Design Limits	2	100.0	62.5	0.7
General Electrical Engineering Knowledge: Signal Processing	10	80.0	62.5	2.0
Digital Systems: Digital Logic	4	100.0	65.0	1.0
Digital Systems: Digital Components	4	100.0	61.7	0.9
Electric & Magnetic Field Theory & Applications: Electromagnetic Fields	2	50.0	69.2	0.7
Electric & Magnetic Field Theory & Applications: Transmission Lines & Guided Waves	2	50.0	80.8	0.6
Electric & Magnetic Field Theory & Applications: Antennas	4	50.0	51.7	1.0
Electronics: Electronic Circuit Theory	6	100.0	62.2	1.3
Electronics: Electronic Components & Circuits	4	100.0	55.8	1.1
Control System Fundamentals: Block Diagrams	1	100.0	81.7	0.4
Control System Fundamentals: Characteristic Equations	1	100.0	65.0	0.5
Control System Fundamentals: Frequency Response	2	100.0	67.5	0.7
Control System Fundamentals: Stability	2	50.0	64.2	0.7
Communications: Modulation	3	33.3	51.1	0.9
Communications: Noise & Interference	2	50.0	41.7	0.7
Communications: Telecommunications	3	33.3	67.8	0.8

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Name of Institution:		University of Kentucky, Lexington	
Major:	Electrical	PE Examination:	Electrical and Computer: Power

	Institution	ABET Comparator ²		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	4		571	
No. Examinees Passing	2		354	
Percent Examinees Passing	50%		62%	
General Power Engineering: Measurement & Instrumentation	6	66.7	76.8	1.1
General Power Engineering: Special Applications	8	62.5	63.3	1.6
General Power Engineering: Codes & Standards	10	62.5	67.0	1.8
Circuit Analysis: Analysis	9	58.3	53.8	1.9
Circuit Analysis: Devices & Power Electronic Circuits	7	50.0	58.9	1.4
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	60.0	58.0	1.7
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	70.8	62.3	1.1
Transmissions & Distribution: System Analysis	10	55.0	59.8	1.8
Transmissions & Distribution: Power System Performance	6	66.7	57.9	1.4
Transmissions & Distribution: Protection	8	59.4	66.3	1.5

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Name of Institution:	University of Kentucky, Lexington	
Major:	Mechanical	PE Examination: Civil-Water Resources and Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	9		
No. Examinees Passing	1	5		
Percent Examinees Passing	100%	56%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	55.6	1.4
Means and Methods	3	33.3	37.0	0.6
Soil Mechanics	6	83.3	68.5	1.2
Structural Mechanics	6	66.7	68.5	0.9
Hydraulics and Hydrology	7	85.7	85.7	0.9
Geometrics	3	33.3	63.0	0.6
Materials	6	83.3	63.0	1.3
Site Development	5	100.0	71.1	1.0
Analysis and Design	4	75.0	69.4	0.8
Hydraulics Closed Conduit	5	80.0	60.0	0.8
Hydraulics Open Channel	5	100.0	80.0	0.7
Hydrology	7	71.4	71.4	1.2
Groundwater and Wells	3	100.0	77.8	0.8
Wastewater Collection and Treatment	6	66.7	68.5	1.1
Water Quality	3	100.0	66.7	0.5
Drinking Water Distribution and Treatment	6	83.3	63.0	1.2
Engineering Economics Analysis	1	0.0	22.2	0.4

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mechanical	PE Examination:	Mechanical-HVAC and Refrigeration

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	2	328		
No. Examinees Passing	1	267		
Percent Examinees Passing	50%	81%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Basic Engineering Practice: Basic Engineering Practice	12	45.8	69.3	1.9
Mechanical Systems & Materials: Principles	5	50.0	53.3	1.2
Mechanical Systems & Materials: Applications	3	83.3	67.8	0.8
Hydraulic & Fluids: Principles	3	66.7	77.5	0.8
Hydraulic & Fluids: Applications	4	50.0	71.0	0.9
Energy & Power Systems: Principles	3	33.3	51.3	1.0
Energy & Power Systems: Applications	3	66.7	67.8	0.9
HVAC & Refrigeration: Principles	4	87.5	81.9	0.9
HVAC & Refrigeration: Applications	3	100.0	79.3	0.7
Principles: Thermodynamics	3	66.7	80.3	0.7
Principles: Psychrometrics	6	33.3	75.6	1.3
Principles: Heat Transfer	5	50.0	76.3	1.1
Principles: Fluid Mechanics	3	0.0	61.4	0.9
Principles: Compressible Flow	1	50.0	77.4	0.4
Principles: Energy Balances	4	50.0	77.2	0.8
Applications: Equipment and Components	8	37.5	71.6	1.5
Applications: Systems	7	42.9	70.5	1.4
Applications: Supportive Knowledges	3	100.0	76.1	0.7

1. 0 examinees have been removed from this data because they were flagged as a random guesser.
2. Comparator includes all examinees from programs accredited by the ABET commission noted.
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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington	
Major:	Mechanical	PE Examination: Mechanical-Mechanical Systems and Materials

	Institution	ABET Comparator ²		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	Number of Exam Questions	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	2	302		
No. Examinees Passing	1	215		
Percent Examinees Passing	50%	71%		
Basic Engineering Practice: Basic Engineering Practice	62.5	70.2	12	2.0
Mechanical Systems & Materials: Principles	60.0	75.0	5	1.2
Mechanical Systems & Materials: Applications	83.3	75.1	3	0.8
Hydraulic & Fluids: Principles	100.0	79.7	3	0.8
Hydraulic & Fluids: Applications	75.0	80.2	4	1.0
Energy & Power Systems: Principles	50.0	52.6	3	0.9
Energy & Power Systems: Applications	83.3	63.7	3	1.0
HVAC & Refrigeration: Principles	62.5	64.4	4	1.2
HVAC & Refrigeration: Applications	50.0	61.0	3	0.8
Principles: Statics (free-body diagrams)	41.7	59.5	6	1.4
Principles: Kinematics (linear & rotational motion)	33.3	61.6	3	0.8
Principles: Dynamics (particle & rigid body)	25.0	58.1	4	1.2
Principles: Materials Properties (physical)	75.0	82.6	4	0.9
Principles: Strength of Materials (stress & strain)	42.9	63.9	7	1.4
Applications: Mechanical Components	75.0	60.3	4	1.1
Applications: Joints & Fasteners	25.0	47.0	4	1.1
Applications: Vibration & Dynamic Analysis	25.0	47.6	4	1.1
Applications: Materials & Process	62.5	64.2	4	1.0

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mechanical	PE Examination:	Mechanical-Thermal and Fluids Systems

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	3	360		
No. Examinees Passing	3	241		
Percent Examinees Passing	100%	67%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Basic Engineering Practice: Basic Engineering Practice	12	66.7	69.0	2.2
Mechanical Systems & Materials: Principles	5	66.7	62.8	1.2
Mechanical Systems & Materials: Applications	3	77.8	72.6	0.7
Hydraulic & Fluids: Principles	3	88.9	83.7	0.7
Hydraulic & Fluids: Applications	4	83.3	78.1	0.9
Energy & Power Systems: Principles	3	77.8	59.4	1.0
Energy & Power Systems: Applications	3	77.8	72.4	0.9
HVAC & Refrigeration: Principles	4	75.0	74.7	1.1
HVAC & Refrigeration: Applications	3	55.6	70.6	0.7
Principles: Materials Properties (density)	2	83.3	56.0	0.8
Principles: Fluid Mechanics	4	50.0	46.7	1.1
Principles: Heat Transfer Principles (convection)	4	58.3	71.5	1.0
Principles: Mass Balance Principles (evaporation)	3	77.8	60.6	0.9
Principles: Thermodynamics	4	33.3	54.0	1.0
Principles: Related Principles	1	66.7	75.8	0.4
Applications: Equipment	7	57.1	54.2	1.6
Applications: Systems	13	48.7	50.1	2.8
Applications: Codes & Standards	2	100.0	76.4	0.6

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mining/Mineral	PE Examination:	Civil-Geotechnical

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	4		
No. Examinees Passing	0	3		
Percent Examinees Passing	0%	75%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	0.0	62.5	1.5
Means and Methods	3	33.3	66.7	1.0
Soil Mechanics	6	50.0	75.0	1.1
Structural Mechanics	6	66.7	70.8	0.8
Hydraulics and Hydrology	7	42.9	82.1	1.6
Geometrics	3	0.0	75.0	1.3
Materials	6	50.0	87.5	1.3
Site Development	5	60.0	85.0	0.8
Site Characterization	5	40.0	65.0	0.8
Soil Mechanics Laboratory Testing and Analysis	5	60.0	80.0	0.7
Field Materials Testing; Methods; and Safety	3	33.3	75.0	0.8
Earthquake Engineering and Dynamic Loads	2	50.0	75.0	0.5
Earth Structures	4	75.0	68.8	0.4
Groundwater and Seepage	3	66.7	66.7	0.7
Problematic Soil and Rock Conditions	3	66.7	58.3	0.4
Earth Retaining Structures (ASD or LRFD)	5	80.0	65.0	0.8
Shallow Foundations (ASD or LRFD)	5	60.0	75.0	0.8
Deep Foundations (ASD or LRFD)	5	20.0	65.0	1.5

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Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington	
Major:	Mining/Mineral	PE Examination: Civil-Water Resources and Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	3
No. Examinees Passing	1	3
Percent Examinees Passing	100%	100%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	66.7	0.5
Means and Methods	3	33.3	55.6	0.9
Soil Mechanics	6	83.3	77.8	0.5
Structural Mechanics	6	16.7	27.8	0.9
Hydraulics and Hydrology	7	85.7	85.7	0.0
Geometrics	3	66.7	88.9	0.5
Materials	6	66.7	66.7	0.8
Site Development	5	100.0	80.0	0.8
Analysis and Design	4	75.0	66.7	0.5
Hydraulics Closed Conduit	5	40.0	46.7	0.5
Hydraulics Open Channel	5	80.0	86.7	0.5
Hydrology	7	85.7	71.4	0.8
Groundwater and Wells	3	66.7	55.6	0.5
Wastewater Collection and Treatment	6	83.3	66.7	0.8
Water Quality	3	66.7	88.9	0.5
Drinking Water Distribution and Treatment	6	66.7	55.6	0.9
Engineering Economics Analysis	1	100.0	100.0	0.0

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