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**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jan 01—Jun 30, 2019  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

		Institution	ABET Comparator <sup>2</sup>	
No. Examinees Taking <sup>1</sup>		1	17	
No. Examinees Passing		0	9	
Percent Examinees Passing		0%	53%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	75.0	73.5	0.9
Means and Methods	3	33.3	47.1	0.8
Soil Mechanics	6	16.7	57.8	1.3
Structural Mechanics	6	33.3	46.1	1.2
Hydraulics and Hydrology	7	71.4	86.6	1.1
Geometrics	3	66.7	86.3	0.7
Materials	6	66.7	77.5	1.0
Site Development	5	80.0	64.7	1.4
Analysis and Design	4	50.0	64.7	0.9
Hydraulics Closed Conduit	5	80.0	54.1	1.1
Hydraulics Open Channel	5	60.0	52.9	1.4
Hydrology	7	71.4	66.4	0.9
Groundwater and Wells	3	100.0	64.7	0.9
Wastewater Collection and Treatment	6	16.7	43.1	1.5
Water Quality	3	66.7	68.6	0.9
Drinking Water Distribution and Treatment	6	50.0	52.9	1.5
Engineering Economics Analysis	1	100.0	64.7	0.5

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

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	3	598
No. Examinees Passing	2	358
Percent Examinees Passing	67%	60%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	100.0	83.8	0.8
Means and Methods	3	55.6	46.6	0.9
Soil Mechanics	6	55.6	60.4	1.3
Structural Mechanics	6	66.7	68.4	1.4
Hydraulics and Hydrology	7	81.0	78.4	1.2
Geometrics	3	88.9	80.5	0.7
Materials	6	88.9	83.2	0.9
Site Development	5	73.3	67.4	1.1
Earthwork Construction and Layout	6	55.6	61.8	1.2
Estimating Quantities and Costs	6	55.6	58.7	1.3
Construction Operations and Methods	7	52.4	50.9	1.4
Scheduling	5	66.7	61.6	1.1
Material Quality Control and Production	6	77.8	64.7	1.2
Temporary Structures	7	47.6	38.4	1.4
Construction Health and Safety	3	77.8	70.5	0.7

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

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	4	328
No. Examinees Passing	3	208
Percent Examinees Passing	75%	63%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	93.8	82.4	0.8
Means and Methods	3	58.3	53.3	0.9
Soil Mechanics	6	66.7	75.2	1.2
Structural Mechanics	6	66.7	70.8	1.3
Hydraulics and Hydrology	7	89.3	80.9	1.2
Geometrics	3	75.0	82.7	0.7
Materials	6	91.7	88.0	1.0
Site Development	5	65.0	69.3	1.2
Site Characterization	5	40.0	53.2	1.1
Soil Mechanics; Laboratory Testing; and Analysis	5	65.0	68.8	1.2
Field Materials Testing; Methods; and Safety	3	66.7	78.9	0.7
Earthquake Engineering and Dynamic Loads	2	12.5	27.1	0.6
Earth Structures	4	75.0	68.8	0.9
Groundwater and Seepage	3	50.0	54.3	0.9
Problematic Soil and Rock Conditions	3	83.3	73.5	0.8
Earth Retaining Structures (ASD or LRFD)	5	55.0	58.7	1.4
Shallow Foundations (ASD or LRFD)	5	70.0	57.6	1.3
Deep Foundations (ASD or LRFD)	5	75.0	62.7	1.4

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	3	965
No. Examinees Passing	1	645
Percent Examinees Passing	33%	67%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	75.0	84.0	0.8
Means and Methods	3	55.6	60.2	0.7
Soil Mechanics	6	61.1	67.0	1.2
Structural Mechanics	6	88.9	83.9	1.1
Hydraulics and Hydrology	7	76.2	82.1	1.1
Geometrics	3	100.0	84.0	0.7
Materials	6	83.3	80.3	1.1
Site Development	5	60.0	67.2	1.1
Analysis of Structures: Loads and load applications	4	33.3	38.3	0.9
Analysis of Structures: Forces and load effects	10	56.7	56.5	1.8
Design and Details of Structures: Materials and material properties	5	60.0	63.6	1.1
Design and Details of Structures: Component design and detailing	15	46.7	57.2	2.5
Codes and Construction: Codes; standards; and guidance documents	4	58.3	58.0	1.1
Codes and Construction: Temporary structures and other topics	2	83.3	68.8	0.7

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	15	1,407
No. Examinees Passing	7	951
Percent Examinees Passing	47%	68%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	71.7	79.6	0.8
Means and Methods	3	46.7	41.0	0.8
Soil Mechanics	6	58.9	60.9	1.2
Structural Mechanics	6	63.3	63.6	1.4
Hydraulics and Hydrology	7	81.0	80.3	1.1
Geometrics	3	84.4	90.4	0.5
Materials	6	76.7	80.5	1.1
Site Development	5	57.3	63.7	1.2
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	56.4	58.8	1.9
Horizontal Design	4	48.3	55.5	1.1
Vertical Design	4	73.3	78.8	1.0
Intersection Geometry	4	61.7	76.2	1.0
Roadside and Cross Section Design	4	65.0	66.1	0.9
Signal Design	3	53.3	66.7	0.8
Traffic Control Design	3	75.6	79.3	0.8
Geotechnical and Pavement	4	60.0	60.4	1.1
Drainage	2	60.0	57.8	0.7
Alternatives Analysis	1	26.7	45.9	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 <sup>2</sup>	
No. Examinees Taking <sup>1</sup>		9	1,149	
No. Examinees Passing		3	787	
Percent Examinees Passing		33%	68%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	83.3	81.7	0.8
Means and Methods	3	37.0	43.3	0.8
Soil Mechanics	6	59.3	61.2	1.2
Structural Mechanics	6	55.6	64.6	1.3
Hydraulics and Hydrology	7	88.9	87.8	1.0
Geometrics	3	77.8	84.0	0.7
Materials	6	77.8	81.0	1.1
Site Development	5	57.8	65.4	1.2
Analysis and Design	4	50.0	65.8	0.8
Hydraulics Closed Conduit	5	51.1	50.7	1.1
Hydraulics Open Channel	5	42.2	52.1	1.2
Hydrology	7	61.9	71.2	1.3
Groundwater and Wells	3	55.6	66.6	0.9
Wastewater Collection and Treatment	6	35.2	42.2	1.2
Water Quality	3	85.2	76.3	0.8
Drinking Water Distribution and Treatment	6	48.1	57.0	1.4
Engineering Economics Analysis	1	33.3	68.5	0.5

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	11
No. Examinees Passing	0	4
Percent Examinees Passing	0%	36%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
General Power Engineering: Measurement and Instrumentation	4	75.0	77.3	0.7
General Power Engineering: Applications	8	100.0	67.0	1.7
General Power Engineering: Codes and Standards	12	75.0	57.6	2.1
Circuits: Analysis	9	55.6	52.5	1.8
Circuits: Devices and Power Electronic Circuits	7	57.1	66.2	1.6
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	8	50.0	55.7	1.6
Rotating Machines and Electric Power Devices: Electric Power Devices	8	37.5	48.9	1.0
Transmission and Distribution (High; Medium; and Low Voltage): Power System Analysis	11	45.5	50.4	2.1
Transmission and Distribution (High; Medium; and Low Voltage): Protection	13	38.5	47.6	2.6

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

		Institution	ABET Comparator <sup>2</sup>	
No. Examinees Taking <sup>1</sup>		9	690	
No. Examinees Passing		6	404	
Percent Examinees Passing		67%	59%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
General Power Engineering: Measurement and Instrumentation	4	72.2	78.8	0.8
General Power Engineering: Applications	8	73.6	69.8	1.5
General Power Engineering: Codes and Standards	12	65.7	67.2	2.2
Circuits: Analysis	9	71.6	67.7	1.8
Circuits: Devices and Power Electronic Circuits	7	65.1	71.4	1.5
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	8	65.3	66.8	1.8
Rotating Machines and Electric Power Devices: Electric Power Devices	8	66.7	64.6	1.6
Transmission and Distribution (High; Medium; and Low Voltage): Power System Analysis	11	60.6	54.9	2.0
Transmission and Distribution (High; Medium; and Low Voltage): Protection	13	65.0	56.8	2.3

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

		Institution	ABET Comparator <sup>2</sup>	
No. Examinees Taking <sup>1</sup>		2	470	
No. Examinees Passing		2	365	
Percent Examinees Passing		100%	78%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Principles: Basic Engineering Practice	4	62.5	84.9	0.9
Principles: Thermodynamics	4	87.5	83.9	0.8
Principles: Psychrometrics (e.g.; sea level; 5000-ft elevation)	8	81.3	78.8	1.5
Principles: Heat Transfer	7	92.9	69.6	1.6
Principles: Fluid Mechanics	4	62.5	64.5	1.2
Principles: Energy and Mass Balances	5	100.0	76.2	1.2
Applications: Heating and Cooling Loads	8	87.5	68.4	1.7
Applications: Equipment and Components	18	83.3	70.6	2.6
Applications: Systems and Components	18	91.7	72.2	2.8
Applications: Supportive Knowledge	4	100.0	77.7	0.9

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Mechanical</b>	PE Examination:	<b>Mechanical: Machine Design and Materials</b>

	<b>Institution</b>	<b>ABET Comparator<sup>2</sup></b>
No. Examinees Taking <sup>1</sup>	3	359
No. Examinees Passing	3	270
Percent Examinees Passing	100%	75%

	<b>Number of Exam Questions</b>	<b>Institution Average Percent Correct</b>	<b>ABET Comparator Average Percent Correct</b>	<b>ABET Comparator Standard Deviation<sup>3</sup></b>
Principles: Basic Engineering Practice	9	85.2	74.8	1.6
Principles: Engineering Science and Mechanics	10	86.7	62.4	1.9
Principles: Material Properties	8	83.3	68.7	1.6
Principles: Strength of Materials	10	76.7	72.0	2.0
Principles: Vibration	3	66.7	67.5	1.0
Applications: Mechanical Components	18	79.6	68.2	2.9
Applications: Joints and Fasteners	12	88.9	74.8	2.0
Applications: Supportive Knowledge	10	76.7	64.5	1.6

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

		Institution	ABET Comparator <sup>2</sup>	
No. Examinees Taking <sup>1</sup>		2	350	
No. Examinees Passing		2	245	
Percent Examinees Passing		100%	70%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Principles: Basic Engineering Practice	6	91.7	73.4	1.3
Principles: Fluid Mechanics	6	83.3	73.9	1.3
Principles: Heat Transfer Principles (e.g.; convection; conduction; radiation)	6	91.7	86.8	1.1
Principles: Mass Balance Principles (e.g.; evaporation; dehumidification; mixing)	4	100.0	78.0	1.0
Principles: Thermodynamics	6	91.7	70.7	1.2
Principles: Supportive Knowledge	4	75.0	73.6	1.0
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	15	70.0	69.7	2.6
Hydraulic and Fluid Applications: Distribution Systems (e.g.; pipe flow)	9	55.6	69.8	1.7
Energy and Power System Applications: Energy and Power Equipment	8	62.5	64.2	1.9
Energy and Power System Applications: Cooling and Heating (e.g.; capacity; loads; cycles)	6	83.3	68.8	1.5
Energy and Power System Applications: Energy Recovery (e.g.; waste heat; storage)	5	60.0	60.9	1.4
Energy and Power System Applications: Combined Cycles (e.g.; components; efficiency)	5	70.0	52.9	1.5

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	2
No. Examinees Passing	0	0
Percent Examinees Passing	0%	0%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	50.0	75.0	1.0
Means and Methods	3	33.3	33.3	0.0
Soil Mechanics	6	33.3	41.7	0.5
Structural Mechanics	6	33.3	25.0	0.5
Hydraulics and Hydrology	7	100.0	78.6	1.5
Geometrics	3	66.7	66.7	0.0
Materials	6	100.0	83.3	1.0
Site Development	5	40.0	40.0	0.0
Analysis and Design	4	75.0	50.0	1.0
Hydraulics Closed Conduit	5	40.0	20.0	1.0
Hydraulics Open Channel	5	40.0	40.0	0.0
Hydrology	7	14.3	14.3	0.0
Groundwater and Wells	3	66.7	50.0	0.5
Wastewater Collection and Treatment	6	33.3	25.0	0.5
Water Quality	3	66.7	66.7	0.0
Drinking Water Distribution and Treatment	6	33.3	41.7	0.5
Engineering Economics Analysis	1	100.0	100.0	0.0

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- The standard deviation is based on number of questions correct, not percentage of questions correct.

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