

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jun 01—Nov 30, 2015  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
No. Examinees Taking <sup>1</sup>	1	10		
No. Examinees Passing	1	8		
Percent Examinees Passing	100%	80%		
	<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>
Project Planning	4	75.0	82.5	0.8
Means and Methods	3	0.0	40.0	1.1
Soil Mechanics	6	83.3	73.3	1.2
Structural Mechanics	6	83.3	53.3	1.2
Hydraulics and Hydrology	7	85.7	77.1	1.7
Geometrics	3	33.3	66.7	0.8
Materials	6	83.3	75.0	1.0
Site Development	5	100.0	88.0	0.5
Analysis and Design	4	100.0	95.0	0.4
Hydraulics Closed Conduit	5	60.0	58.0	1.2
Hydraulics Open Channel	5	40.0	46.0	0.9
Hydrology	7	100.0	75.7	1.8
Groundwater and Wells	3	100.0	83.3	0.9
Wastewater Collection and Treatment	6	66.7	63.3	1.0
Water Quality	3	100.0	70.0	0.9
Drinking Water Distribution and Treatment	6	83.3	65.0	1.6
Engineering Economics Analysis	1	100.0	70.0	0.5

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Name of Institution:	University of Kentucky, Lexington		
Major:	Chemical	PE Examination:	Chemical

	Institution	ABET Comparator <sup>2</sup>			
			Number of Exam Questions	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
No. Examinees Taking <sup>1</sup>	2	178			
No. Examinees Passing	1	139			
Percent Examinees Passing	50%	78%			
Mass Energy Balances and Thermodynamics: Mass Balances	75.0	67.6	8		1.8
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	45.0	63.1	10		1.9
Heat Transfer: Mechanisms	64.3	65.1	7		1.3
Heat Transfer: Applications	50.0	60.2	6		1.3
Kinetics: Reaction Parameters	30.0	58.4	5		1.3
Kinetics: Reactors	37.5	60.8	4		1.0
Fluids: Mechanical-Energy Balance	70.0	73.3	10		1.7
Fluids: Flow and Pressure Measurement Techniques	50.0	54.1	3		0.9
Mass Transfer: Phase Equilibria	83.3	52.8	3		0.8
Mass Transfer: Continuous Vapor-Liquid Contactors	66.7	63.5	6		1.1
Mass Transfer: Miscellaneous Mass Transfer Processes	25.0	61.0	2		0.7
Plant Design and Operation: Economic Considerations	50.0	69.7	1		0.5
Plant Design and Operation: Design	62.5	60.3	8		1.6
Plant Design and Operation: Operation	33.3	55.1	3		0.9
Plant Design and Operation: Safety; Health; and Environment	50.0	55.1	4		1.0

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Civil</b>	PE Examination:	<b>Civil-Construction</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>
No. Examinees Taking <sup>1</sup>	4	521
No. Examinees Passing	2	304
Percent Examinees Passing	50%	58%

	<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>
Project Planning	4	75.0	76.1	1.0
Means and Methods	3	25.0	45.5	0.9
Soil Mechanics	6	50.0	63.9	1.3
Structural Mechanics	6	54.2	58.9	1.3
Hydraulics and Hydrology	7	50.0	59.6	1.4
Geometrics	3	66.7	62.6	0.9
Materials	6	66.7	76.3	1.1
Site Development	5	90.0	80.8	1.0
Earthwork Construction and Layout	6	66.7	66.8	1.3
Estimating Quantities and Costs	6	75.0	75.7	1.2
Construction Operations and Methods	7	60.7	56.2	1.3
Scheduling	5	75.0	74.5	1.0
Material Quality Control and Production	6	58.3	58.1	1.2
Temporary Structures	7	46.4	54.4	1.5
Construction Health and Safety	3	58.3	49.8	0.8

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Civil</b>	PE Examination:	<b>Civil-Geotechnical</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>
No. Examinees Taking <sup>1</sup>	3	274
No. Examinees Passing	2	179
Percent Examinees Passing	67%	65%

	<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>
Project Planning	4	75.0	72.8	0.9
Means and Methods	3	33.3	53.1	1.0
Soil Mechanics	6	100.0	84.3	1.1
Structural Mechanics	6	55.6	64.5	1.4
Hydraulics and Hydrology	7	81.0	64.1	1.5
Geometrics	3	77.8	65.6	0.9
Materials	6	83.3	82.8	1.0
Site Development	5	86.7	80.4	1.0
Site Characterization	5	80.0	79.8	1.0
Soil Mechanics Laboratory Testing and Analysis	5	73.3	75.4	1.1
Field Materials Testing; Methods; and Safety	3	77.8	64.7	0.8
Earthquake Engineering and Dynamic Loads	2	83.3	67.6	0.7
Earth Structures	4	50.0	58.5	1.0
Groundwater and Seepage	3	55.6	63.6	0.8
Problematic Soil and Rock Conditions	3	66.7	71.8	0.8
Earth Retaining Structures (ASD or LRFD)	5	73.3	54.7	1.3
Shallow Foundations (ASD or LRFD)	5	80.0	71.1	1.2
Deep Foundations (ASD or LRFD)	5	46.7	70.5	1.2

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Name of Institution:		<b>University of Kentucky, Lexington</b>	
Major:	<b>Civil</b>	PE Examination:	<b>Civil-Transportation</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
No. Examinees Taking <sup>1</sup>	9	863		
No. Examinees Passing	7	595		
Percent Examinees Passing	78%	69%		
	<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>
Project Planning	4	69.4	70.4	0.9
Means and Methods	3	29.6	41.2	0.9
Soil Mechanics	6	68.5	62.5	1.4
Structural Mechanics	6	50.0	56.0	1.4
Hydraulics and Hydrology	7	58.7	62.2	1.5
Geometrics	3	77.8	77.2	0.8
Materials	6	75.9	72.7	1.2
Site Development	5	84.4	77.9	1.0
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	60.6	58.8	2.0
Horizontal Design	4	88.9	78.8	1.0
Vertical Design	4	63.9	71.0	1.1
Intersection Geometry	4	72.2	58.1	1.0
Roadside and Cross Section Design	4	88.9	74.7	1.0
Signal Design	3	66.7	59.7	0.9
Traffic Control Design	3	88.9	82.2	0.8
Geotechnical and Pavement	4	77.8	70.8	1.0
Drainage	2	50.0	47.5	0.7
Alternatives Analysis	1	66.7	69.8	0.5

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Major:	<b>Civil</b>	PE Examination:	<b>Civil-Water Resources and Environmental</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
No. Examinees Taking <sup>1</sup>	3	735		
No. Examinees Passing	2	521		
Percent Examinees Passing	67%	71%		
	<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>
Project Planning	4	66.7	72.0	0.9
Means and Methods	3	22.2	44.3	0.9
Soil Mechanics	6	66.7	64.9	1.3
Structural Mechanics	6	61.1	56.0	1.3
Hydraulics and Hydrology	7	66.7	75.1	1.3
Geometrics	3	100.0	67.9	0.9
Materials	6	77.8	75.4	1.2
Site Development	5	73.3	78.7	1.0
Analysis and Design	4	91.7	88.6	0.8
Hydraulics Closed Conduit	5	66.7	56.0	1.0
Hydraulics Open Channel	5	60.0	45.7	1.1
Hydrology	7	81.0	75.3	1.4
Groundwater and Wells	3	88.9	70.7	0.9
Wastewater Collection and Treatment	6	44.4	53.1	1.1
Water Quality	3	66.7	62.9	0.8
Drinking Water Distribution and Treatment	6	61.1	56.0	1.4
Engineering Economics Analysis	1	33.3	49.0	0.5

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Civil</b>	PE Examination:	<b>Environmental</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
No. Examinees Taking <sup>1</sup>	1	38		
No. Examinees Passing	0	19		
Percent Examinees Passing	0%	50%		
	<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>
Water: Basic Principles	4	0.0	52.0	1.2
Water: Wastewater	10	40.0	59.5	1.9
Water: Stormwater	4	100.0	60.5	1.1
Water: Potable Water	10	40.0	52.6	2.1
Water: Water Resources	4	50.0	56.6	1.1
Solid Waste: Basic Principles	2	50.0	60.5	0.6
Solid Waste: Municipal and Industrial Solid Waste	7	42.9	55.6	1.7
Solid Waste: Hazardous Waste	5	20.0	53.2	1.0
Solid Waste: Medical; Radioactive; Other Waste	4	25.0	66.4	1.0
Air: Basic Principles	7	57.1	56.0	1.2
Air: Pollution Control	16	18.8	54.6	2.7
Site Assessment and Remediation: Basic Principles	5	60.0	63.7	1.2
Site Assessment and Remediation: Site Assessment	3	100.0	85.1	0.6
Site Assessment and Remediation: Remediation	4	50.0	46.7	1.1
Environmental Health and Safety: Environmental Health and Safety	8	25.0	51.0	1.5
Associated Engineering Principles: Associated Engineering Principles	7	71.4	77.4	1.3

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Computer</b>	PE Examination:	<b>Electrical and Computer: Power</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
No. Examinees Taking <sup>1</sup>	1	13		
No. Examinees Passing	1	7		
Percent Examinees Passing	100%	54%		
	<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>
General Power Engineering: Measurement & Instrumentation	6	66.7	69.2	0.8
General Power Engineering: Special Applications	7	57.1	76.9	1.1
General Power Engineering: Codes & Standards	11	54.5	55.9	1.2
Circuit Analysis: Analysis	9	66.7	60.7	1.6
Circuit Analysis: Devices & Power Electronic Circuits	7	71.4	64.8	1.6
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	80.0	76.9	0.8
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	50.0	75.6	1.2
Transmissions & Distribution: System Analysis	10	80.0	60.8	1.8
Transmissions & Distribution: Power System Performance	6	33.3	53.8	1.2
Transmissions & Distribution: Protection	8	87.5	72.1	1.2

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Electrical</b>	PE Examination:	<b>Control Systems</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
	<b>Institution Average Percent Correct</b>	<b>ABET Comparator Average Percent Correct</b>	<b>Number of Exam Questions</b>	<b>ABET Comparator Standard Deviation <sup>3</sup></b>
No. Examinees Taking <sup>1</sup>	1	79		
No. Examinees Passing	1	59		
Percent Examinees Passing	100%	75%		
Measurement: Measurement	56.3	55.5	16	2.3
Signals; Transmission; and Networking: Signals	100.0	86.4	4	0.8
Signals; Transmission; and Networking: Transmission	50.0	70.6	4	1.0
Signals; Transmission; and Networking: Networking	25.0	64.2	4	1.0
Final Control Elements: Valves	71.4	65.8	7	1.2
Final Control Elements: Pressure Relieving Devices	33.3	38.4	3	1.0
Final Control Elements: Motor Controls	50.0	62.0	4	1.0
Final Control Elements: Other Final Control Elements	50.0	53.8	2	0.7
Control Systems: Drawings	75.0	61.1	4	1.0
Control Systems: Theory	50.0	51.9	6	1.3
Control Systems: Implementation	37.5	57.0	8	1.6
Safety Systems: Basic documentation	100.0	55.7	2	0.7
Safety Systems: Theory	100.0	70.6	4	1.0
Safety Systems: Implementation	83.3	79.7	6	1.0
Codes; Standards; and Regulations: Codes; Standards; and Regulations	83.3	60.8	6	0.8

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Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Electrical</b>	PE Examination:	<b>Electrical and Computer: Power</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
	<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>
No. Examinees Taking <sup>1</sup>	5		551	
No. Examinees Passing	3		336	
Percent Examinees Passing	60%		61%	
General Power Engineering: Measurement & Instrumentation	6	80.0	74.0	1.1
General Power Engineering: Special Applications	7	60.0	71.8	1.5
General Power Engineering: Codes & Standards	11	65.5	63.8	1.9
Circuit Analysis: Analysis	9	57.8	64.9	1.9
Circuit Analysis: Devices & Power Electronic Circuits	7	71.4	63.4	1.6
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	82.0	73.8	1.7
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	63.3	73.9	1.2
Transmissions & Distribution: System Analysis	10	64.0	62.0	2.0
Transmissions & Distribution: Power System Performance	6	46.7	59.8	1.2
Transmissions & Distribution: Protection	8	85.0	72.8	1.3

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

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
	<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>
No. Examinees Taking <sup>1</sup>		3	295	
No. Examinees Passing		3	247	
Percent Examinees Passing		100%	84%	
<b>Basic Engineering Practice: Basic Engineering Practice</b>	12	66.7	71.1	2.0
<b>Mechanical Systems &amp; Materials: Principles</b>	5	73.3	66.6	1.1
<b>Mechanical Systems &amp; Materials: Applications</b>	3	66.7	62.6	0.8
<b>Hydraulic &amp; Fluids: Principles</b>	3	44.4	68.7	0.9
<b>Hydraulic &amp; Fluids: Applications</b>	4	66.7	61.5	1.1
<b>Energy &amp; Power Systems: Principles</b>	3	88.9	71.9	0.8
<b>Energy &amp; Power Systems: Applications</b>	3	88.9	77.4	0.9
<b>HVAC &amp; Refrigeration: Principles</b>	4	83.3	78.0	1.0
<b>HVAC &amp; Refrigeration: Applications</b>	3	88.9	83.2	0.8
<b>Principles: Thermodynamics</b>	3	88.9	75.2	0.7
<b>Principles: Psychrometrics</b>	6	72.2	73.6	1.3
<b>Principles: Heat Transfer</b>	5	60.0	59.9	1.3
<b>Principles: Fluid Mechanics</b>	3	55.6	52.6	0.9
<b>Principles: Compressible Flow</b>	1	33.3	59.6	0.5
<b>Principles: Energy Balances</b>	4	58.3	77.7	1.0
<b>Applications: Equipment and Components</b>	8	66.7	63.4	1.7
<b>Applications: Systems</b>	7	66.7	67.5	1.4
<b>Applications: Supportive Knowledges</b>	3	44.4	39.3	0.9

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.
3. The standard deviation is based on number of questions correct, not percentage of questions correct.

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**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jun 01—Nov 30, 2015  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	3	320
No. Examinees Passing	3	241
Percent Examinees Passing	100%	75%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Basic Engineering Practice: Basic Engineering Practice	12	80.6	72.6	1.9
Mechanical Systems & Materials: Principles	5	73.3	77.4	1.0
Mechanical Systems & Materials: Applications	3	66.7	66.5	0.8
Hydraulic & Fluids: Principles	3	66.7	76.5	0.8
Hydraulic & Fluids: Applications	4	66.7	60.5	1.1
Energy & Power Systems: Principles	3	77.8	70.1	0.9
Energy & Power Systems: Applications	3	77.8	70.5	1.0
HVAC & Refrigeration: Principles	4	66.7	72.7	1.0
HVAC & Refrigeration: Applications	3	66.7	64.9	0.9
Principles: Statics (free-body diagrams)	6	61.1	62.2	1.4
Principles: Kinematics (linear & rotational motion)	2	66.7	62.5	0.7
Principles: Dynamics (particle & rigid body)	5	40.0	54.4	1.2
Principles: Materials Properties (physical)	5	73.3	71.2	1.1
Principles: Strength of Materials (stress & strain)	6	66.7	58.8	1.4
Applications: Mechanical Components	4	91.7	67.2	1.0
Applications: Joints & Fasteners	4	50.0	49.0	1.0
Applications: Vibration & Dynamic Analysis	4	66.7	36.2	1.0
Applications: Materials & Process	4	25.0	47.4	1.0

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**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jun 01—Nov 30, 2015  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	<b>University of Kentucky, Lexington</b>		
Major:	<b>Mining/Mineral</b>	PE Examination:	<b>Mining and Mineral Processing</b>

	<b>Institution</b>	<b>ABET Comparator <sup>2</sup></b>		
No. Examinees Taking <sup>1</sup>	10	45		
No. Examinees Passing	5	32		
Percent Examinees Passing	50%	71%		
	<b>Institution Average Percent Correct</b>	<b>ABET Comparator Average Percent Correct</b>	<b>ABET Comparator Standard Deviation <sup>3</sup></b>	<b>Number of Exam Questions</b>
Exploration: Apply exploration methods & techniques	36.7	45.2	0.8	3
Exploration: Characterize site geologic & geotechnical conditions	53.3	60.7	0.7	3
Exploration: Estimate & characterize & evaluate resource reserves	65.0	75.0	1.0	4
Mine Planning & Operations: Plan & design & implement mining methods and layouts	46.3	65.3	1.8	8
Mine Planning & Operations: Plan & design & select and-or construct mine equipment and facilities and systems	66.9	72.1	2.2	13
Mine Planning & Operations: Evaluate & design ground control	68.6	70.2	1.3	7
Mine Planning & Operations: Operate & manage mines & systems	55.0	62.8	0.9	4
Mineral Processing: Perform laboratory & pilot testing and analysis	45.0	55.0	0.7	4
Mineral Processing: Design & evaluate process flow sheets	52.2	58.5	1.6	9
Mineral Processing: Plan & design & select and-or construct plant equipment and facilities and systems	57.1	69.5	1.5	7
Mineral Processing: Operate & manage plants & facilities	52.5	63.3	1.1	4
Environment & Reclamation: Characterize site & mining & process environment	52.5	56.7	1.0	4
Environment & Reclamation: Plan & design to mitigate exploration & mining & processing impacts	56.0	65.8	1.3	5
Environment & Reclamation: Operate & manage environmental & reclamation plan	50.0	56.3	1.0	3
Environment & Reclamation: Close & reclaim the site	30.0	54.4	0.8	2

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