

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**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	1	12
Percent Examinees Passing	100%	71%

  

	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	61.8	0.8
Means and Methods	3	100.0	54.9	0.6
Soil Mechanics	6	100.0	63.7	1.4
Structural Mechanics	6	50.0	43.1	1.3
Hydraulics and Hydrology	7	85.7	80.7	0.7
Geometrics	3	66.7	51.0	0.9
Materials	6	83.3	59.8	1.0
Site Development	5	40.0	74.1	1.1
Analysis and Design	4	75.0	66.2	0.6
Hydraulics Closed Conduit	5	40.0	63.5	1.5
Hydraulics Open Channel	5	40.0	63.5	0.9
Hydrology	7	71.4	66.4	1.1
Groundwater and Wells	3	33.3	80.4	0.9
Wastewater Collection and Treatment	6	33.3	48.0	1.5
Water Quality	3	33.3	68.6	0.6
Drinking Water Distribution and Treatment	6	50.0	50.0	1.5
Engineering Economics Analysis	1	0.0	29.4	0.5

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator <sup>2</sup>		
No. Examinees Taking <sup>1</sup>	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 <sup>3</sup>
General Power Engineering: Measurement & Instrumentation	6	83.3	83.3	0.0
General Power Engineering: Special Applications	8	50.0	50.0	0.0
General Power Engineering: Codes & Standards	10	80.0	80.0	0.0
Circuit Analysis: Analysis	9	66.7	66.7	0.0
Circuit Analysis: Devices & Power Electronic Circuits	7	71.4	71.4	0.0
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	80.0	80.0	0.0
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	50.0	50.0	0.0
Transmissions & Distribution: System Analysis	10	80.0	80.0	0.0
Transmissions & Distribution: Power System Performance	6	83.3	83.3	0.0
Transmissions & Distribution: Protection	8	37.5	37.5	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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator <sup>2</sup>		
No. Examinees Taking <sup>1</sup>	1	2		
No. Examinees Passing	1	2		
Percent Examinees Passing	100%	100%		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	Number of Exam Questions	ABET Comparator Standard Deviation <sup>3</sup>
Principles: Basic Engineering Practice	100.0	100.0	4	0.0
Principles: Thermodynamics	50.0	62.5	4	0.5
Principles: Psychrometrics (e.g., sea level; 5000-ft elevation)	87.5	87.5	8	0.0
Principles: Heat Transfer	85.7	92.9	7	0.5
Principles: Fluid Mechanics	100.0	87.5	4	0.5
Principles: Energy and Mass Balances	80.0	80.0	5	0.0
Applications: Heating and Cooling Loads	75.0	81.3	8	0.5
Applications: Equipment and Components	88.9	86.1	18	0.5
Applications: Systems and Components	83.3	83.3	18	0.0
Applications: Supportive Knowledge	75.0	75.0	4	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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**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>	4	598
No. Examinees Passing	3	379
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	75.0	72.2	1.0
Means and Methods	3	83.3	67.7	0.8
Soil Mechanics	6	66.7	59.7	1.3
Structural Mechanics	6	50.0	59.5	1.3
Hydraulics and Hydrology	7	64.3	68.5	1.4
Geometrics	3	16.7	50.9	0.9
Materials	6	58.3	61.1	1.1
Site Development	5	85.0	71.2	1.0
Earthwork Construction and Layout	6	66.7	62.0	1.3
Estimating Quantities and Costs	6	62.5	79.2	1.1
Construction Operations and Methods	7	71.4	60.1	1.6
Scheduling	5	85.0	83.7	1.0
Material Quality Control and Production	6	41.7	49.9	1.3
Temporary Structures	7	42.9	50.2	1.5
Construction Health and Safety	3	58.3	74.2	0.8

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**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>	2	329
No. Examinees Passing	2	198
Percent Examinees Passing	100%	60%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	62.5	67.0	1.1
Means and Methods	3	83.3	68.3	0.8
Soil Mechanics	6	75.0	72.8	1.3
Structural Mechanics	6	75.0	61.2	1.4
Hydraulics and Hydrology	7	78.6	72.9	1.3
Geometrics	3	66.7	54.4	0.9
Materials	6	75.0	65.1	1.1
Site Development	5	70.0	73.4	1.0
Site Characterization	5	100.0	74.3	1.1
Soil Mechanics; Laboratory Testing; and Analysis	5	80.0	73.1	1.0
Field Materials Testing; Methods; and Safety	3	50.0	73.5	0.8
Earthquake Engineering and Dynamic Loads	2	75.0	47.4	0.7
Earth Structures	4	62.5	50.8	0.9
Groundwater and Seepage	3	50.0	66.5	0.8
Problematic Soil and Rock Conditions	3	66.7	57.6	0.8
Earth Retaining Structures (ASD or LRFD)	5	90.0	65.0	1.2
Shallow Foundations (ASD or LRFD)	5	80.0	62.9	1.3
Deep Foundations (ASD or LRFD)	5	40.0	35.9	1.0

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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>	4	1,132
No. Examinees Passing	4	792
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>
Project Planning	4	93.8	71.1	1.0
Means and Methods	3	91.7	76.4	0.8
Soil Mechanics	6	70.8	66.6	1.2
Structural Mechanics	6	87.5	78.0	1.1
Hydraulics and Hydrology	7	89.3	74.1	1.3
Geometrics	3	66.7	59.2	0.9
Materials	6	70.8	67.9	1.1
Site Development	5	95.0	71.4	1.1
Analysis of Structures: Loads and load applications	4	50.0	50.3	1.2
Analysis of Structures: Forces and load effects	10	75.0	68.1	2.0
Design and Details of Structures: Materials and material properties	5	85.0	78.1	1.0
Design and Details of Structures: Component design and detailing	15	63.3	58.2	2.4
Codes and Construction: Codes; standards; and guidance documents	4	75.0	51.6	1.1
Codes and Construction: Temporary structures and other topics	2	75.0	59.1	0.6

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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>	9	1,260
No. Examinees Passing	7	893
Percent Examinees Passing	78%	71%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Project Planning	4	69.4	66.6	1.0
Means and Methods	3	51.9	64.5	0.8
Soil Mechanics	6	70.4	60.3	1.3
Structural Mechanics	6	53.7	55.9	1.4
Hydraulics and Hydrology	7	79.4	71.1	1.4
Geometrics	3	55.6	67.0	0.9
Materials	6	57.4	59.6	1.1
Site Development	5	73.3	70.6	1.0
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	57.6	55.9	2.0
Horizontal Design	4	83.3	71.0	0.9
Vertical Design	4	50.0	59.6	1.0
Intersection Geometry	4	47.2	57.1	1.0
Roadside and Cross Section Design	4	52.8	59.3	1.0
Signal Design	3	63.0	51.1	0.8
Traffic Control Design	3	59.3	59.4	0.8
Geotechnical and Pavement	4	66.7	57.0	1.0
Drainage	2	94.4	84.2	0.5
Alternatives Analysis	1	100.0	84.3	0.4

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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>	3	1,134
No. Examinees Passing	3	794
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>
Project Planning	4	66.7	67.7	1.0
Means and Methods	3	66.7	64.2	0.8
Soil Mechanics	6	94.4	62.4	1.3
Structural Mechanics	6	61.1	56.7	1.4
Hydraulics and Hydrology	7	76.2	79.8	1.2
Geometrics	3	55.6	52.8	0.9
Materials	6	61.1	63.5	1.1
Site Development	5	86.7	74.2	1.0
Analysis and Design	4	75.0	68.2	0.7
Hydraulics Closed Conduit	5	66.7	60.8	1.2
Hydraulics Open Channel	5	80.0	71.8	1.1
Hydrology	7	66.7	64.7	1.3
Groundwater and Wells	3	55.6	75.3	0.8
Wastewater Collection and Treatment	6	44.4	55.9	1.3
Water Quality	3	77.8	62.1	0.9
Drinking Water Distribution and Treatment	6	50.0	49.9	1.3
Engineering Economics Analysis	1	0.0	47.9	0.5

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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.



**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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>	3	696		
No. Examinees Passing	3	412		
Percent Examinees Passing	100%	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 & Instrumentation	6	66.7	58.9	1.3
General Power Engineering: Special Applications	8	62.5	59.5	1.7
General Power Engineering: Codes & Standards	10	80.0	70.7	1.7
Circuit Analysis: Analysis	9	70.4	66.4	1.7
Circuit Analysis: Devices & Power Electronic Circuits	7	71.4	72.4	1.3
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	60.0	70.6	1.7
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	61.1	68.1	1.3
Transmissions & Distribution: System Analysis	10	36.7	58.6	2.0
Transmissions & Distribution: Power System Performance	6	66.7	64.6	1.2
Transmissions & Distribution: Protection	8	79.2	56.4	1.5

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Materials	PE Examination:	Metallurgical and Materials

	Institution	ABET Comparator <sup>2</sup>		
No. Examinees Taking <sup>1</sup>	1	20		
No. Examinees Passing	1	18		
Percent Examinees Passing	100%	90%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Structure	12	83.3	75.0	1.5
Properties	16	56.3	71.6	2.2
Processing	24	54.2	70.0	3.2
Performance	28	50.0	68.6	3.3

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**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 <sup>2</sup>		
No. Examinees Taking <sup>1</sup>	1	422		
No. Examinees Passing	1	303		
Percent Examinees Passing	100%	72%		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>	Number of Exam Questions
Principles: Basic Engineering Practice	100.0	82.3	0.9	4
Principles: Thermodynamics	75.0	72.7	0.9	4
Principles: Psychrometrics (e.g., sea level; 5000-ft elevation)	75.0	70.3	1.8	8
Principles: Heat Transfer	85.7	76.1	1.3	7
Principles: Fluid Mechanics	75.0	65.2	1.0	4
Principles: Energy and Mass Balances	100.0	74.4	1.2	5
Applications: Heating and Cooling Loads	75.0	67.1	1.4	8
Applications: Equipment and Components	94.4	76.7	2.6	18
Applications: Systems and Components	88.9	73.3	2.8	18
Applications: Supportive Knowledge	50.0	71.3	0.9	4

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mining/Mineral	PE Examination:	Environmental

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	1
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>
Water: Basic Principles	4	75.0	75.0	0.0
Water: Wastewater	10	40.0	40.0	0.0
Water: Stormwater	4	50.0	50.0	0.0
Water: Potable Water	10	50.0	50.0	0.0
Water: Water Resources	4	50.0	50.0	0.0
Solid Waste: Basic Principles	4	75.0	75.0	0.0
Solid Waste: Municipal and Industrial Solid Waste	5	60.0	60.0	0.0
Solid Waste: Hazardous Waste	6	66.7	66.7	0.0
Solid Waste: Medical; Radioactive; Other Waste	3	66.7	66.7	0.0
Air: Basic Principles	7	42.9	42.9	0.0
Air: Pollution Control	16	62.5	62.5	0.0
Site Assessment and Remediation: Basic Principles	5	80.0	80.0	0.0
Site Assessment and Remediation: Site Assessment	3	0.0	0.0	0.0
Site Assessment and Remediation: Remediation	4	75.0	75.0	0.0
Environmental Health and Safety: Environmental Health and Safety	8	37.5	37.5	0.0
Associated Engineering Principles: Associated Engineering Principles	7	42.9	42.9	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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

**Examination:** Principles and Practice of Engineering (PE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2017  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	6	51
No. Examinees Passing	4	33
Percent Examinees Passing	67%	65%

  

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation <sup>3</sup>
Exploration: Exploration Methods and Techniques	3	72.2	71.9	0.8
Exploration: Site Geologic and Geotechnical Conditions	3	61.1	51.6	0.9
Exploration: Resources and Reserves	4	45.8	51.0	1.0
Mine Planning and Operations: Mining Methods and Layouts	8	50.0	59.3	1.7
Mine Planning and Operations: Mine Equipment; Facilities; and Systems	13	70.5	70.0	2.1
Mine Planning and Operations: Ground Control	5	60.0	59.2	1.1
Mine Planning and Operations: Mine Planning and Systems	5	50.0	59.6	1.1
Mineral Processing: Laboratory and Pilot Testing and Results	4	50.0	58.8	1.0
Mineral Processing: Process Flow Sheets	9	59.3	60.6	1.7
Mineral Processing: Plant Equipment; Facilities; and Systems	7	54.8	50.1	1.5
Mineral Processing: Plants and Facilities	4	62.5	69.1	0.9
Environment and Reclamation: Site; Mining; and Process Environment	4	29.2	33.8	1.2
Environment and Reclamation: Exploration; Mining; and Processing Impacts	5	76.7	72.5	1.2
Environment and Reclamation: Environmental and Reclamation Plan	3	61.1	66.7	0.8
Environment and Reclamation: Reclamation and Postclosure	3	55.6	60.8	0.9

- 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.

#### TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.