Exams administered: Jul 01—Dec 31, 2019

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

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

No. Examinees Taking ¹		2	476	
No. Examinees Passing		2	302	
Percent Examinees Passing		100%	63%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	62.5	69.9	1.0
Means and Methods	3	83.3	68.6	0.8
Soil Mechanics	6	83.3	68.0	1.2
Structural Mechanics	6	75.0	79.0	1.1
Hydraulics and Hydrology	7	92.9	69.9	1.5
Geometrics	3	66.7	66.2	0.9
Materials	6	66.7	78.3	1.1
Site Development	5	80.0	66.7	1.2
Earthwork Construction and Layout	6	91.7	74.5	1.3
Estimating Quantities and Costs	6	75.0	59.1	1.3
Construction Operations and Methods	7	50.0	53.1	1.4

5

6

7

ABET

Comparator ²

67.5

58.8

44.6

64.5

1.2

1.3

1.5

0.8

Institution

90.0

83.3

50.0

83.3

- 1. $\underline{\mathbf{0}}$ 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

Material Quality Control and Production

Scheduling

Temporary Structures

Construction Health and Safety

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Exams administered: Jul 01—Dec 31, 2019

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

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

		Institution	ABE I Comparator ²
No. Examinees Taking ¹		2	300
No. Examinees Passing		2	198
Percent Examinees Passing		100%	66%
	Number	Institution	ABET Comparator

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	65.9	1.1
Means and Methods	3	66.7	74.7	0.7
Soil Mechanics	6	91.7	79.9	1.1
Structural Mechanics	6	83.3	82.9	1.1
Hydraulics and Hydrology	7	78.6	72.6	1.6
Geometrics	3	83.3	62.5	1.0
Materials	6	75.0	83.7	1.0
Site Development	5	70.0	68.6	1.2
Site Characterization	5	70.0	67.9	1.0
Soil Mechanics; Laboratory Testing; and Analysis	5	50.0	52.2	1.3
Field Materials Testing; Methods; and Safety	3	66.7	80.6	0.7
Earthquake Engineering and Dynamic Loads	2	50.0	70.7	0.7
Earth Structures	4	75.0	56.9	1.0
Groundwater and Seepage	3	50.0	50.5	0.9
Problematic Soil and Rock Conditions	3	50.0	56.9	0.9
Earth Retaining Structures (ASD or LRFD)	5	50.0	50.7	1.3
Shallow Foundations (ASD or LRFD)	5	40.0	53.6	1.1
Deep Foundations (ASD or LRFD)	5	60.0	43.7	1.2

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TERMS AND CONDITIONS OF DATA USE

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Exams administered: Jul 01—Dec 31, 2019

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

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	968
No. Examinees Passing	1	638
Percent Examinees Passing	33%	66%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	91.7	66.6	1.0
Means and Methods	3	77.8	69.5	0.8
Soil Mechanics	6	61.1	74.6	1.2
Structural Mechanics	6	83.3	91.9	0.7
Hydraulics and Hydrology	7	81.0	76.0	1.4
Geometrics	3	77.8	69.2	0.9
Materials	6	83.3	77.5	1.0
Site Development	5	60.0	66.6	1.2
Analysis of Structures: Loads and load applications	4	66.7	50.6	1.1
Analysis of Structures: Forces and load effects	10	60.0	58.5	2.1
Design and Details of Structures: Materials and material properties	5	66.7	84.2	1.0
Design and Details of Structures: Component design and detailing	15	48.9	55.3	2.7
Codes and Construction: Codes; standards; and guidance documents	4	50.0	55.2	1.0
Codes and Construction: Temporary structures and other topics	2	83.3	55.3	0.7

- 1. **Q** examinees have been removed from this data because they were flagged as a random guesser.
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TERMS AND CONDITIONS OF DATA USE

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Exams administered: Jul 01—Dec 31, 2019

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

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

	9	1,192	
	8	858	
	89%	72%	
Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
4	88.9	60.2	1.0
3	59.3	59.3	0.9
6	72.2	66.7	1.3
6	72.2	76.2	1.2
7	74.6	70.8	1.5
3	88.9	77.1	0.8
6	85.2	74.7	1.1
5	71.1	67.0	1.2
11	74.7	66.1	1.8
4	75.0	60.6	1.2
4	72.2	71.7	1.0
4	58.3	51.3	0.9
4	52.8	49.3	1.1
	of Exam Questions 4 3 6 6 7 3 6 5 11 4 4 4	Number of Exam Questions Institution Average Percent Correct 4 88.9 3 59.3 6 72.2 6 72.2 7 74.6 3 88.9 6 85.2 5 71.1 11 74.7 4 75.0 4 72.2 4 58.3	Number of Exam Questions Institution Average Percent Correct Average Percent Correct Average Percent Correct 4 88.9 60.2 3 59.3 59.3 6 72.2 66.7 6 72.2 76.2 7 74.6 70.8 3 88.9 77.1 6 85.2 74.7 5 71.1 67.0 11 74.7 66.1 4 75.0 60.6 4 72.2 71.7 4 58.3 51.3

ABET

Comparator ²

60.7

60.6

59.7

68.1

74.6

0.8

0.9

1.0 0.7

0.4

Institution

70.4

74.1

55.6

72.2

77.8

- 1. $\underline{\mathbf{0}}$ 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

Signal Design

Drainage

Traffic Control Design

Alternatives Analysis

Geotechnical and Pavement

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4

Exams administered: Jul 01—Dec 31, 2019

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

No. Examinees Taking ¹		7	1,011	
No. Examinees Passing		2	719	
Percent Examinees Passing		29%	71%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	60.9	1.1
Means and Methods	3	61.9	59.7	0.8
Soil Mechanics	6	57.1	66.9	1.2
Structural Mechanics	6	73.8	77.7	1.2
Hydraulics and Hydrology	7	51.0	80.9	1.3
Geometrics	3	61.9	66.2	0.9
Materials	6	83.3	77.2	1.1
Site Development	5	65.7	67.9	1.1
Analysis and Design	4	53.6	60.6	0.8
Hydraulics Closed Conduit	5	34.3	57.7	1.2
Hydraulics Open Channel	5	51.4	67.7	1.1
Hydrology	7	38.8	52.0	1.4
Groundwater and Wells	3	61.9	53.2	0.9
Wastewater Collection and Treatment	6	33.3	48.9	1.2
Water Quality	3	47.6	58.5	0.9

ABET

Comparator ²

63.1

72.8

1.5

0.4

Institution

52 4

42.9

- 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.

TERMS AND CONDITIONS OF DATA USE

Drinking Water Distribution and Treatment

Engineering Economics Analysis

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.

6

Exams administered: Jul 01—Dec 31, 2019

Rotating Machines and Electric Power Devices: Electric Power Devices

Transmission and Distribution (High; Medium; and Low Voltage): Power

Transmission and Distribution (High; Medium; and Low Voltage):

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

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

No. Examinees Taking '		4	760	
No. Examinees Passing		4	375	
Percent Examinees Passing		100%	49%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Power Engineering: Measurement and Instrumentation	4	56.3	59.5	0.9
General Power Engineering: Applications	8	87.5	65.7	1.6
General Power Engineering: Codes and Standards	12	79.2	67.4	2.0
Circuits: Analysis	9	63.9	57.6	2.0
Circuits: Devices and Power Electronic Circuits	7	64.3	56.1	1.6
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	8	71.9	58.8	1.7

11

13

ABET

Comparator ²

59.9

52.5

68.3

1.6

2.0

2.1

Institution

71.9

56.8

76.9

- 1. $\underline{\mathbf{0}}$ 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

System Analysis

Protection

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Exams administered: Jul 01—Dec 31, 2019

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	

No. Examinees Taking ¹ No. Examinees Passing Percent Examinees Passing		2 2 100%	29 28 97%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Structure	12	91.7	87.4	1.0
Properties	16	59.4	71.1	1.8
Processing	24	85.4	77.9	2.7
Performance	28	69.6	70.1	3.0

ABET

Comparator ²

Institution

- 1. $\underline{\mathbf{0}}$ examinees have been removed from this data because they were flagged as a random guesser.
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- 3. The standard deviation is based on number of questions correct, not percentage of questions correct.

TERMS AND CONDITIONS OF DATA USE

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Exams administered: Jul 01—Dec 31, 2019

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

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	5	561
No. Examinees Passing	2	382
Percent Examinees Passing	40%	68%
		ADET

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	4	80.0	64.3	1.0
Principles: Thermodynamics	4	70.0	74.3	0.9
Principles: Psychrometrics (e.g.; sea level; 5000-ft elevation)	8	65.0	71.2	1.6
Principles: Heat Transfer	7	74.3	65.7	1.6
Principles: Fluid Mechanics	4	55.0	66.8	1.0
Principles: Energy and Mass Balances	5	68.0	74.9	1.2
Applications: Heating and Cooling Loads	8	50.0	66.4	1.7
Applications: Equipment and Components	18	72.2	70.6	2.6
Applications: Systems and Components	18	50.0	60.2	3.0
Applications: Supportive Knowledge	4	40.0	44.8	1.0

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TERMS AND CONDITIONS OF DATA USE

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Exams administered: Jul 01—Dec 31, 2019

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

Name of Institution:		Univers	sity of Kentucky, Lexington
Major:	Mechanical	PE Examination:	Mechanical: Machine Design and Materials

		Institution	ABE I Comparator ²	
No. Examinees Taking ¹ No. Examinees Passing		2 1	419 287	
Percent Examinees Passing		50%	68%	
	Number of Exam Questions	Institution Average Percent	ABET Comparator Average Percent	Co

	of Exam Questions	Average Percent Correct	Average Percent Correct	Comparator Standard Deviation ³
Principles: Basic Engineering Practice	9	44.4	72.8	1.6
Principles: Engineering Science and Mechanics	10	65.0	65.1	2.1
Principles: Material Properties	8	75.0	71.4	1.5
Principles: Strength of Materials	10	60.0	69.4	1.9
Principles: Vibration	3	16.7	46.9	1.0
Applications: Mechanical Components	17	44.1	56.5	3.0
Applications: Joints and Fasteners	13	46.2	58.2	2.1
Applications: Supportive Knowledge	10	70.0	63.0	1.9

ABET

ABET

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Exams administered: Jul 01-Dec 31, 2019

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

Name of Institution:		Universit	y of Kentucky, Lexington
Major:	Mechanical	PE Examination:	Mechanical: Thermal and Fluid Systems

No. Examinees Taking ¹		2	460	
No. Examinees Passing		2	311	
Percent Examinees Passing		100%	68%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	6	75.0	78.4	1.2
Principles: Fluid Mechanics	6	83.3	74.0	1.1
Principles: Heat Transfer Principles (e.g.; convection; conduction; radiation)	6	75.0	65.2	1.3
Principles: Mass Balance Principles (e.g.; evaporation; dehumidification; mixing)	4	75.0	67.7	1.0
Principles: Thermodynamics	6	66.7	67.0	1.4
Principles: Supportive Knowledge	4	87.5	79.3	0.9
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	15	70.0	62.9	2.6
Hydraulic and Fluid Applications: Distribution Systems (e.g.; pipe flow)	9	55.6	57.3	2.0
Energy and Power System Applications: Energy and Power Equipment	8	62.5	68.9	1.7
Energy and Power System Applications: Cooling and Heating (e.g.; capacity; loads; cycles)	6	8.3	53.6	1.5
Energy and Power System Applications: Energy Recovery (e.g.; waste heat; storage)	5	40.0	51.4	1.2
Energy and Power System Applications: Combined Cycles (e.g.;	5	80.0	69.6	1.3

ABET

Comparator ²

69.6

1.3

Institution

80.0

- 1. $\underline{\mathbf{0}}$ examinees have been removed from this data because they were flagged as a random guesser.
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- 3. The standard deviation is based on number of questions correct, not percentage of questions correct.

TERMS AND CONDITIONS OF DATA USE

components; efficiency)

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Exams administered: Jul 01—Dec 31, 2019

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

No. Examinees Taking ¹		2	36	
No. Examinees Passing		2	25	
Percent Examinees Passing	100%	69%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Exploration: Exploration Methods and Techniques	3	83.3	64.8	0.8
Exploration: Site Geologic and Geotechnical Conditions	3	83.3	63.9	0.9
Exploration: Resources and Reserves	4	87.5	62.5	0.9
Mine Planning and Operations: Mining Methods and Layouts	7	64.3	53.6	1.3
Mine Planning and Operations: Mine Equipment; Facilities; and Systems	14	85.7	72.6	2.2
Mine Planning and Operations: Ground Control	5	60.0	61.7	1.2
Mine Planning and Operations: Mine Planning and Systems	5	100.0	74.4	1.0
Mineral Processing: Laboratory and Pilot Testing and Results	4	62.5	47.9	1.1
Mineral Processing: Process Flow Sheets	9	72.2	58.0	1.7
Mineral Processing: Plant Equipment; Facilities; and Systems	7	78.6	66.3	1.2
Mineral Processing: Plants and Facilities	4	87.5	54.2	1.3
Environment and Reclamation: Site; Mining; and Process Environment	4	50.0	59.7	1.0
Environment and Reclamation: Exploration; Mining; and Processing Impacts	5	100.0	70.0	1.3
Environment and Reclamation: Environmental and Reclamation Plan	3	83.3	68.5	0.8

ABET

Comparator ²

37.0

0.6

Institution

50.0

- 1. $\underline{\mathbf{0}}$ 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

Environment and Reclamation: Reclamation and Postclosure

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