

NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	15
No. Examinees Passing	1	8
Percent Examinees Passing	33%	53%

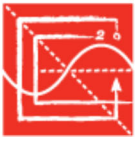
Uncertainty Range for Scaled Score ⁴ ± 0.58
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Hydraulics—Closed Conduit	4	8.8	9.2	2.5	0.96	-0.16
Hydraulics—Open Channel	4	7.7	11.4	3.5	0.68	-1.06
Hydrology	6	9.1	10.3	3.0	0.88	-0.40
Groundwater and Wells	3	11.0	10.3	3.0	1.07	0.23
Wastewater Collection and Treatment	5	10.1	9.0	2.3	1.12	0.48
Water Quality	3	7.4	10.8	3.6	0.69	-0.94
Drinking Water Distribution and Treatment	5	8.1	9.7	2.3	0.84	-0.70
Engineering Economics Analysis	1	5.0	9.0	7.3	0.56	-0.55

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	497
No. Examinees Passing	2	256
Percent Examinees Passing	33%	52%

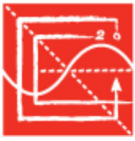
Uncertainty Range for Scaled Score ⁴ ± 0.41
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Estimating Quantities and Costs	5	9.6	9.0	3.2	1.07	0.19
Construction Operations and Methods	6	7.7	8.9	2.5	0.87	-0.48
Scheduling	5	7.9	9.3	3.3	0.85	-0.42
Material Quality Control and Production	5	9.5	9.4	3.0	1.01	0.03
Temporary Structures	6	7.9	8.9	2.2	0.89	-0.45
Health and Safety	3	10.6	10.5	4.0	1.01	0.02

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	235
No. Examinees Passing	0	120
Percent Examinees Passing	0%	51%

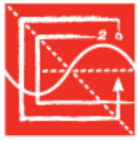
Uncertainty Range for Scaled Score ⁴ ± 0.71
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Soil Mechanics, Laboratory Testing, and Analysis	4	11.5	10.3	3.8	1.12	0.32
Field Materials Testing, Methods, and Safety	3	8.7	9.4	4.4	0.93	-0.16
Earthquake Engineering and Dynamic Loads	2	4.3	9.3	5.3	0.46	-0.94
Earth Structures	4	8.2	9.8	3.9	0.84	-0.41
Groundwater and Seepage	3	4.7	9.3	4.1	0.51	-1.12
Problematic Soil and Rock Conditions	3	3.2	9.1	4.2	0.35	-1.40
Earth Retaining Structures (ASD or LRFD)	4	11.7	8.4	3.4	1.39	0.97
Shallow Foundations (ASD or LRFD)	4	7.8	9.3	3.7	0.84	-0.41
Deep Foundations (ASD or LRFD)	4	9.9	9.7	3.5	1.02	0.06

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	810
No. Examinees Passing	3	467
Percent Examinees Passing	50%	58%

**Uncertainty
 Range for
 Scaled
 Score ⁴**
 ± 0.41

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Analysis of Structures: Loads and load applications	4	6.8	9.0	3.3	0.76	-0.67
Analysis of Structures: Forces and load effects	9	8.6	8.6	2.1	1.00	0.00
Design and Details of Structures: Materials and material properties	4	8.8	10.0	3.6	0.88	-0.33
Design and Details of Structures: Component design and detailing	12	7.4	8.9	1.9	0.83	-0.79
Codes and Construction: Codes, standards, and guidance documents	4	11.4	9.9	3.4	1.15	0.44
Codes and Construction: Temporary structures and other topics	2	13.8	9.2	5.3	1.50	0.87

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	12	1,189
No. Examinees Passing	8	796
Percent Examinees Passing	67%	67%

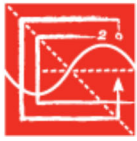
Uncertainty Range for Scaled Score ⁴ ± 0.29
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Horizontal Design	3	8.4	9.0	4.5	0.93	-0.13
Vertical Design	3	9.8	10.5	4.4	0.93	-0.16
Intersection Geometry	3	8.2	10.0	4.1	0.82	-0.44
Roadside and Cross-Section Design	3	11.9	10.4	3.7	1.14	0.41
Signal Design	3	8.8	9.9	4.0	0.89	-0.28
Traffic Control Design	3	13.4	12.0	3.8	1.12	0.37
Geotechnical and Pavement	4	9.6	10.3	3.2	0.93	-0.22
Drainage	2	11.7	11.4	4.7	1.03	0.06
Alternatives Analysis	1	11.3	10.0	7.1	1.13	0.18

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	5	917
No. Examinees Passing	4	599
Percent Examinees Passing	80%	65%

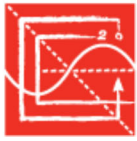
Uncertainty Range for Scaled Score ⁴ ± 0.45
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Hydraulics—Closed Conduit	4	8.4	9.1	3.3	0.92	-0.21
Hydraulics—Open Channel	4	10.8	10.6	3.4	1.02	0.06
Hydrology	6	8.8	9.6	2.8	0.92	-0.29
Groundwater and Wells	3	9.7	10.5	3.9	0.92	-0.21
Wastewater Collection and Treatment	5	8.6	9.2	2.8	0.93	-0.21
Water Quality	3	10.3	9.6	4.1	1.07	0.17
Drinking Water Distribution and Treatment	5	9.0	9.4	2.9	0.96	-0.14
Engineering Economics Analysis	1	9.0	9.2	7.3	0.98	-0.03

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	647
No. Examinees Passing	3	387
Percent Examinees Passing	75%	60%

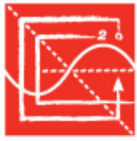
Uncertainty Range for Scaled Score ⁴ ± 0.50
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
General Power Engineering: Measurement and Instrumentation	4	8.1	10.2	3.4	0.79	-0.62
General Power Engineering: Applications	7	8.6	9.3	2.6	0.92	-0.27
General Power Engineering: Codes and Standards	10	9.4	9.6	2.3	0.98	-0.09
Circuits: Analysis	8	8.8	9.2	2.5	0.96	-0.16
Circuits: Devices and Power Electronic Circuits	6	9.1	8.6	2.6	1.06	0.19
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	7	7.3	9.1	2.7	0.80	-0.67
Rotating Machines and Electric Power Devices: Electric Power Devices	7	7.8	9.3	2.7	0.84	-0.56
Transmission and Distribution (High, Medium, and Low Voltage): Power System Analysis	10	7.7	8.8	1.9	0.88	-0.58
Transmission and Distribution (High, Medium, and Low Voltage): Protection	11	9.4	8.9	1.8	1.06	0.28

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	468
No. Examinees Passing	3	339
Percent Examinees Passing	100%	72%

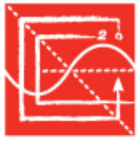
Uncertainty Range for Scaled Score ⁴ ± 0.58
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Principles: Basic Engineering Practice	4	11.1	9.9	3.7	1.12	0.32
Principles: Thermodynamics	4	10.1	10.1	3.7	1.00	0.00
Principles: Psychrometrics	7	8.2	10.0	3.1	0.82	-0.58
Principles: Heat Transfer	6	11.5	10.4	3.2	1.11	0.34
Principles: Fluid Mechanics	3	13.3	10.0	3.9	1.33	0.85
Principles: Energy/Mass Balances	4	8.1	10.5	3.8	0.77	-0.63
Applications: Heating/Cooling Loads	7	10.1	10.1	3.2	1.00	0.00
Applications: Equipment and Components	16	9.2	9.3	1.8	0.99	-0.06
Applications: Systems and Components	16	10.9	9.5	1.8	1.15	0.78
Applications: Supportive Knowledge	3	10.9	10.0	4.0	1.09	0.23

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	268
No. Examinees Passing	1	190
Percent Examinees Passing	100%	71%

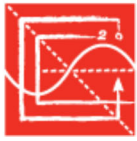
**Uncertainty
 Range for
 Scaled
 Score⁴**
 ± 1.00

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Principles: Basic Engineering Practice	7	10.1	9.6	2.6	1.05	0.19
Principles: Engineering Science and Mechanics	9	8.3	9.4	2.3	0.88	-0.48
Principles: Material Properties	7	10.8	9.5	2.6	1.14	0.50
Principles: Strength of Materials	9	9.7	9.6	2.1	1.01	0.05
Principles: Vibration	3	9.4	8.8	4.3	1.07	0.14
Applications: Mechanical Components	16	8.8	9.4	1.8	0.94	-0.33
Applications: Joints and Fasteners	10	15.0	9.5	2.1	1.58	2.62
Applications: Supportive Knowledge	9	9.7	9.6	2.3	1.01	0.04

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	301
No. Examinees Passing	1	206
Percent Examinees Passing	100%	68%

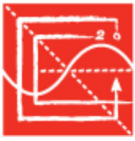
Uncertainty Range for Scaled Score ⁴ ± 1.00
--

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Principles: Basic Engineering Practice	5	9.5	9.8	3.1	0.97	-0.10
Principles: Fluid Mechanics	5	8.3	9.3	3.4	0.89	-0.29
Principles: Heat Transfer Principles	5	8.3	10.5	3.3	0.79	-0.67
Principles: Mass Balance Principles	4	6.9	9.8	3.8	0.70	-0.76
Principles: Thermodynamics	5	10.3	9.7	3.1	1.06	0.19
Principles: Supportive Knowledge	4	9.2	10.1	3.5	0.91	-0.26
Hydraulic and Fluid Applications: Distribution Systems	8	9.1	9.3	2.4	0.98	-0.08
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	13	9.6	9.3	1.9	1.03	0.16
Energy/Power System Applications: Energy/Power Equipment	7	15.0	9.6	2.7	1.56	2.00
Energy/Power System Applications: Cooling/Heating	5	15.0	10.0	2.9	1.50	1.72
Energy/Power System Applications: Energy Recovery	5	8.4	10.2	3.7	0.82	-0.49
Energy/Power System Applications: Combined Cycles	4	15.0	9.7	3.8	1.55	1.39

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

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

**Uncertainty
 Range for
 Scaled
 Score⁴**
 ± 1.00

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Soil Mechanics, Laboratory Testing, and Analysis	4	15.0	10.3	3.4	1.46	1.38
Field Materials Testing, Methods, and Safety	3	15.0	13.1	2.6	1.15	0.73
Earthquake Engineering and Dynamic Loads	2	15.0	12.5	3.5	1.20	0.71
Earth Structures	4	6.5	7.3	0.6	0.89	-1.33
Groundwater and Seepage	3	9.1	10.8	3.0	0.84	-0.57
Problematic Soil and Rock Conditions	3	8.5	6.8	1.2	1.25	1.42
Earth Retaining Structures (ASD or LRFD)	4	9.8	10.3	0.3	0.95	-1.67
Shallow Foundations (ASD or LRFD)	4	8.7	10.9	2.9	0.80	-0.76
Deep Foundations (ASD or LRFD)	4	10.0	10.2	0.2	0.98	-1.00

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

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

Uncertainty Range for Scaled Score⁴ ± 0.71

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Horizontal Design	3	8.6	8.6	0.1	1.00	0.00
Vertical Design	3	7.4	7.4	0.9	1.00	0.00
Intersection Geometry	3	11.5	11.5	3.6	1.00	0.00
Roadside and Cross-Section Design	3	8.1	8.1	0.4	1.00	0.00
Signal Design	3	12.0	12.0	3.1	1.00	0.00
Traffic Control Design	3	15.0	15.0	0.0	1.00	—
Geotechnical and Pavement	4	8.3	8.3	0.2	1.00	0.00
Drainage	2	10.6	10.6	4.4	1.00	0.00
Alternatives Analysis	1	7.5	7.5	7.5	1.00	0.00

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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 may be shared with accrediting bodies as 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.