



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01 – Dec 31, 2021
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 ²
No. Examinees Taking ¹	1	16
No. Examinees Passing	0	12
Percent Examinees Passing	0%	75%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	65.6	0.9
Means and Methods	3	33.3	58.3	1.0
Soil Mechanics	6	83.3	70.8	1.3
Structural Mechanics	6	33.3	72.9	1.1
Hydraulics and Hydrology	7	85.7	86.6	1.0
Geometrics	3	0.0	70.8	0.9
Materials	6	66.7	76.0	0.9
Site Development	5	40.0	63.8	1.1
Analysis and Design	4	100.0	70.3	0.5
Hydraulics Closed Conduit	5	80.0	73.8	1.0
Hydraulics Open Channel	5	20.0	72.5	1.2
Hydrology	7	28.6	51.8	1.5
Groundwater and Wells	3	0.0	52.1	1.0
Wastewater Collection and Treatment	6	16.7	51.0	1.3
Water Quality	3	66.7	64.6	0.8
Drinking Water Distribution and Treatment	6	33.3	61.5	1.3
Engineering Economics Analysis	1	100.0	93.8	0.2

- 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 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: Jul 01 – Dec 31, 2021
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	PE Examination:	Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	5
No. Examinees Passing	1	5
Percent Examinees Passing	100%	100%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Principles	3	6.4	9.6	2.9
Water: Wastewater	7	15.0	10.6	2.4
Water: Stormwater	2	15.0	13.6	2.7
Water: Potable Water	7	8.3	8.7	0.4
Water: Water Resources	2	0.0	9.4	5.6
Air: Principles	7	8.7	9.6	1.1
Air: Pollution Control	7	9.1	9.5	2.9
Solid and Hazardous Waste: Principles	5	8.2	10.1	2.6
Solid and Hazardous Waste: Municipal and Industrial Solid Waste	4	7.2	9.8	2.7
Solid and Hazardous Waste: Hazardous, Medical, and Radioactive Waste	2	15.0	10.8	3.6
Site Assessment and Remediation: Principles	5	10.2	10.3	2.4
Site Assessment and Remediation: Applications	7	9.9	10.6	2.3
Environmental Health and Safety: Principles	3	8.6	10.8	3.4
Environmental Health and Safety: Applications	4	8.7	9.7	2.7
Associated Engineering Principles: Principles	2	15.0	12.0	3.7
Associated Engineering Principles: Applications	3	15.0	13.9	2.2

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 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: Jul 01 – Dec 31, 2021
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 ²
No. Examinees Taking ¹	6	480
No. Examinees Passing	4	264
Percent Examinees Passing	67%	55%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	66.8	1.0
Means and Methods	3	55.6	62.7	0.8
Soil Mechanics	6	58.3	66.3	1.2
Structural Mechanics	6	75.0	76.5	1.2
Hydraulics and Hydrology	7	57.1	67.4	1.5
Geometrics	3	66.7	60.2	0.9
Materials	6	77.8	75.1	1.1
Site Development	5	63.3	64.6	1.1
Earthwork Construction and Layout	6	77.8	73.1	1.3
Estimating Quantities and Costs	6	66.7	55.8	1.3
Construction Operations and Methods	7	54.8	49.8	1.3
Scheduling	5	76.7	65.1	1.2
Material Quality Control and Production	6	47.2	54.8	1.4
Temporary Structures	7	45.2	42.1	1.4
Construction Health and Safety	3	72.2	62.4	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.

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: Jul 01 – Dec 31, 2021
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 ²
No. Examinees Taking ¹	1	333
No. Examinees Passing	0	172
Percent Examinees Passing	0%	52%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	100.0	82.6	0.8
Means and Methods	3	33.3	44.4	0.9
Soil Mechanics	6	50.0	74.7	1.3
Structural Mechanics	6	50.0	68.6	1.4
Hydraulics and Hydrology	7	85.7	78.6	1.2
Geometrics	3	66.7	77.6	0.7
Materials	6	100.0	86.4	0.9
Site Development	5	100.0	63.0	1.2
Site Characterization	5	20.0	48.6	1.1
Soil Mechanics; Laboratory Testing; and Analysis	5	80.0	67.3	1.1
Field Materials Testing; Methods; and Safety	3	100.0	73.5	0.8
Earthquake Engineering and Dynamic Loads	2	50.0	26.0	0.6
Earth Structures	4	75.0	64.4	0.9
Groundwater and Seepage	3	0.0	47.6	0.9
Problematic Soil and Rock Conditions	3	66.7	74.0	0.8
Earth Retaining Structures (ASD or LRFD)	5	0.0	57.3	1.3
Shallow Foundations (ASD or LRFD)	5	40.0	53.2	1.4
Deep Foundations (ASD or LRFD)	5	60.0	57.4	1.3

- 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 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: Jul 01 – Dec 31, 2021
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 ²
No. Examinees Taking ¹	6	971
No. Examinees Passing	5	612
Percent Examinees Passing	83%	63%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	91.7	83.5	0.8
Means and Methods	3	50.0	57.9	0.8
Soil Mechanics	6	75.0	66.6	1.2
Structural Mechanics	6	94.4	83.0	1.1
Hydraulics and Hydrology	7	85.7	81.3	1.2
Geometrics	3	94.4	82.5	0.7
Materials	6	91.7	80.7	1.1
Site Development	5	70.0	65.2	1.2
Analysis of Structures: Loads and load applications	4	41.7	39.6	0.9
Analysis of Structures: Forces and load effects	10	63.3	53.6	1.8
Design and Details of Structures: Materials and material properties	5	73.3	61.8	1.2
Design and Details of Structures: Component design and detailing	15	54.4	56.4	2.4
Codes and Construction: Codes; standards; and guidance documents	4	66.7	56.9	1.1
Codes and Construction: Temporary structures and other topics	2	58.3	66.5	0.7

- 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 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.