



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2020
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	3	684
No. Examinees Passing	2	437
Percent Examinees Passing	67%	64%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	91.7	84.6	0.6
Means and Methods	3	77.8	61.7	0.8
Soil Mechanics	6	50.0	67.0	1.1
Structural Mechanics	6	72.2	66.6	1.4
Hydraulics and Hydrology	7	71.4	71.3	1.5
Geometrics	3	88.9	78.0	0.8
Materials	6	72.2	75.6	1.1
Site Development	5	86.7	85.3	0.9
Earthwork Construction and Layout	6	61.1	65.4	1.3
Estimating Quantities and Costs	6	66.7	62.9	1.1
Construction Operations and Methods	7	66.7	64.6	1.3
Scheduling	5	86.7	80.6	0.9
Material Quality Control and Production	6	33.3	41.6	1.3
Temporary Structures	7	38.1	49.3	1.6
Construction Health and Safety	3	100.0	81.6	0.8

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

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	5	426
No. Examinees Passing	1	240
Percent Examinees Passing	20%	56%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	68.0	1.1
Means and Methods	3	53.3	54.9	0.9
Soil Mechanics	6	63.3	70.2	1.4
Structural Mechanics	6	60.0	73.9	1.2
Hydraulics and Hydrology	7	71.4	73.2	1.4
Geometrics	3	73.3	74.1	0.7
Materials	6	73.3	68.8	1.1
Site Development	5	76.0	78.7	1.1
Site Characterization	5	60.0	76.1	1.0
Soil Mechanics; Laboratory Testing; and Analysis	5	56.0	77.7	1.1
Field Materials Testing; Methods; and Safety	3	33.3	44.7	0.8
Earthquake Engineering and Dynamic Loads	2	80.0	68.9	0.7
Earth Structures	4	85.0	80.7	0.8
Groundwater and Seepage	3	53.3	69.9	0.7
Problematic Soil and Rock Conditions	3	60.0	80.8	0.6
Earth Retaining Structures (ASD or LRFD)	5	48.0	59.5	1.1
Shallow Foundations (ASD or LRFD)	5	28.0	59.6	1.3
Deep Foundations (ASD or LRFD)	5	24.0	48.4	1.3

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	12	1,221
No. Examinees Passing	11	813
Percent Examinees Passing	92%	67%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	85.4	85.1	0.7
Means and Methods	3	63.9	67.7	0.8
Soil Mechanics	6	76.4	71.4	1.1
Structural Mechanics	6	94.4	84.4	1.1
Hydraulics and Hydrology	7	88.1	76.1	1.4
Geometrics	3	83.3	83.0	0.7
Materials	6	79.2	75.1	1.1
Site Development	5	86.7	84.9	0.8
Analysis of Structures: Loads and load applications	4	58.3	55.5	0.9
Analysis of Structures: Forces and load effects	10	55.0	52.5	1.8
Design and Details of Structures: Materials and material properties	5	68.3	69.5	1.1
Design and Details of Structures: Component design and detailing	15	65.0	57.9	2.7
Codes and Construction: Codes; standards; and guidance documents	4	62.5	53.5	1.1
Codes and Construction: Temporary structures and other topics	2	45.8	48.2	0.7

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	12	1,720
No. Examinees Passing	12	1,232
Percent Examinees Passing	100%	72%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	64.6	64.5	1.0
Means and Methods	3	52.8	47.6	0.8
Soil Mechanics	6	52.8	53.9	1.3
Structural Mechanics	6	61.1	68.3	1.2
Hydraulics and Hydrology	7	73.8	71.7	1.3
Geometrics	3	91.7	78.9	0.7
Materials	6	63.9	62.1	1.1
Site Development	5	83.3	81.1	1.0
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	74.2	65.1	1.7
Horizontal Design	4	68.8	50.2	1.1
Vertical Design	4	77.1	69.2	1.2
Intersection Geometry	4	70.8	61.2	1.1
Roadside and Cross Section Design	4	68.8	58.3	0.9
Signal Design	3	75.0	67.1	0.9
Traffic Control Design	3	83.3	77.6	0.7
Geotechnical and Pavement	4	45.8	45.5	1.0
Drainage	2	95.8	87.8	0.5
Alternatives Analysis	1	58.3	62.0	0.5

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	1,406
No. Examinees Passing	3	997
Percent Examinees Passing	75%	71%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	68.8	68.7	1.0
Means and Methods	3	50.0	49.9	0.9
Soil Mechanics	6	62.5	55.3	1.3
Structural Mechanics	6	70.8	68.2	1.2
Hydraulics and Hydrology	7	89.3	79.9	1.2
Geometrics	3	66.7	76.3	0.7
Materials	6	62.5	61.1	1.2
Site Development	5	95.0	79.1	1.0
Analysis and Design	4	81.3	74.0	0.7
Hydraulics Closed Conduit	5	85.0	73.2	1.1
Hydraulics Open Channel	5	75.0	74.5	1.2
Hydrology	7	78.6	73.8	1.4
Groundwater and Wells	3	91.7	72.7	0.7
Wastewater Collection and Treatment	6	62.5	58.8	1.3
Water Quality	3	91.7	77.8	0.8
Drinking Water Distribution and Treatment	6	58.3	70.3	1.2
Engineering Economics Analysis	1	75.0	72.5	0.4

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Name of Institution:	University of Kentucky, Lexington	
Major:	Electrical	PE Examination: Electrical and Computer: Electronics, Controls, and Communications

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	105
No. Examinees Passing	1	60
Percent Examinees Passing	100%	57%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Electrical Engineering Knowledge: Circuit Analysis	18	100.0	63.8	3.7
General Electrical Engineering Knowledge: Measurement and Instrumentation	6	100.0	71.3	1.4
General Electrical Engineering Knowledge: Safety and Reliability	2	100.0	62.9	0.6
General Electrical Engineering Knowledge: Signal Processing	6	83.3	73.3	1.3
Digital Systems: Digital Logic	4	100.0	67.4	1.1
Digital Systems: Digital Components	4	100.0	63.3	0.9
Electromagnetics: Electromagnetic Fields	4	100.0	59.5	1.1
Electromagnetics: Guided Waves	2	100.0	43.3	0.6
Electromagnetics: Antennas	2	50.0	53.8	0.8
Electronics: Electronics Circuits	8	75.0	59.8	1.8
Electronics: Electronic Components and Applications	8	100.0	62.1	1.8
Control Systems: Analysis and Design of Analog or Digital Control Systems	8	62.5	61.0	1.6
Communications: Modulation Techniques	2	100.0	57.1	0.7
Communications: Noise and Interference	4	50.0	42.9	1.1
Communications: Communication Systems	2	100.0	67.6	0.7

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	33
No. Examinees Passing	2	21
Percent Examinees Passing	67%	64%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Exploration: Exploration Methods and Techniques	3	33.3	67.7	0.8
Exploration: Site Geologic and Geotechnical Conditions	3	33.3	45.5	1.0
Exploration: Resources and Reserves	4	25.0	43.9	0.9
Mine Planning and Operations: Mining Methods and Layouts	8	66.7	59.1	1.8
Mine Planning and Operations: Mine Equipment; Facilities; and Systems	13	74.4	70.2	1.6
Mine Planning and Operations: Ground Control	5	60.0	58.2	1.0
Mine Planning and Operations: Mine Planning and Systems	5	66.7	59.4	1.0
Mineral Processing: Laboratory and Pilot Testing and Results	4	33.3	53.0	1.4
Mineral Processing: Process Flow Sheets	9	63.0	50.5	1.7
Mineral Processing: Plant Equipment; Facilities; and Systems	7	47.6	39.8	1.2
Mineral Processing: Plants and Facilities	4	75.0	64.4	1.0
Environment and Reclamation: Site; Mining; and Process Environment	4	41.7	45.5	1.0
Environment and Reclamation: Exploration; Mining; and Processing Impacts	5	73.3	55.2	1.1
Environment and Reclamation: Environmental and Reclamation Plan	3	100.0	83.8	0.5
Environment and Reclamation: Reclamation and Postclosure	3	88.9	72.7	0.8

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