

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2018
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	2	13
No. Examinees Passing	2	12
Percent Examinees Passing	100%	92%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	63.5	0.8
Means and Methods	3	33.3	56.4	0.8
Soil Mechanics	6	50.0	57.7	1.3
Structural Mechanics	6	66.7	51.3	1.2
Hydraulics and Hydrology	7	78.6	79.1	0.9
Geometrics	3	100.0	82.1	0.6
Materials	6	91.7	66.7	1.0
Site Development	5	90.0	80.0	0.9
Analysis and Design	4	75.0	76.9	1.1
Hydraulics Closed Conduit	5	60.0	52.3	0.7
Hydraulics Open Channel	5	60.0	66.2	1.0
Hydrology	7	85.7	74.7	1.6
Groundwater and Wells	3	100.0	79.5	0.5
Wastewater Collection and Treatment	6	33.3	50.0	1.0
Water Quality	3	100.0	94.9	0.4
Drinking Water Distribution and Treatment	6	83.3	85.9	0.9
Engineering Economics Analysis	1	50.0	69.2	0.5

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

		Institution	ABET Comparator ²	
No. Examinees Taking ¹		1	30	
No. Examinees Passing		1	21	
Percent Examinees Passing		100%	70%	
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Principles	4	100.0	55.8	1.1
Water: Wastewater	8	100.0	69.2	1.1
Water: Stormwater	2	0.0	51.7	0.8
Water: Potable Water	8	75.0	66.7	1.6
Water: Water Resources	2	50.0	48.3	0.7
Air: Principles	8	87.5	52.9	1.8
Air: Pollution Control	8	75.0	72.1	1.5
Solid and Hazardous Waste: Principles	6	66.7	75.6	0.9
Solid and Hazardous Waste: Municipal and Industrial Solid Waste	4	75.0	67.5	0.9
Solid and Hazardous Waste: Hazardous; Medical; and Radioactive Waste	2	50.0	40.0	0.7
Site Assessment and Remediation: Principles	6	66.7	68.9	1.1
Site Assessment and Remediation: Applications	8	87.5	75.8	1.5
Environmental Health and Safety: Principles	4	100.0	72.5	1.0
Environmental Health and Safety: Applications	4	50.0	46.7	1.1
Associated Engineering Principles: Principles	2	50.0	65.0	0.5
Associated Engineering Principles: Applications	4	100.0	65.8	1.0

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	536
No. Examinees Passing	4	305
Percent Examinees Passing	67%	57%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	58.3	66.6	0.8
Means and Methods	3	66.7	57.5	0.8
Soil Mechanics	6	55.6	58.1	1.2
Structural Mechanics	6	69.4	58.7	1.5
Hydraulics and Hydrology	7	64.3	53.1	1.6
Geometrics	3	94.4	79.1	0.7
Materials	6	77.8	71.7	1.2
Site Development	5	83.3	83.4	0.9
Earthwork Construction and Layout	6	55.6	59.7	1.1
Estimating Quantities and Costs	6	72.2	66.6	1.1
Construction Operations and Methods	7	52.4	59.7	1.4
Scheduling	5	83.3	75.3	1.0
Material Quality Control and Production	6	58.3	63.2	1.3
Temporary Structures	7	47.6	49.4	1.5
Construction Health and Safety	3	77.8	76.1	0.8

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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	2	344
No. Examinees Passing	1	222
Percent Examinees Passing	50%	65%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	62.5	61.0	0.8
Means and Methods	3	83.3	59.3	0.8
Soil Mechanics	6	66.7	68.6	1.2
Structural Mechanics	6	50.0	62.1	1.4
Hydraulics and Hydrology	7	64.3	58.6	1.5
Geometrics	3	83.3	82.0	0.6
Materials	6	66.7	78.4	1.0
Site Development	5	70.0	86.5	0.8
Site Characterization	5	50.0	53.3	1.1
Soil Mechanics; Laboratory Testing; and Analysis	5	70.0	61.3	1.2
Field Materials Testing; Methods; and Safety	3	100.0	89.4	0.6
Earthquake Engineering and Dynamic Loads	2	25.0	50.4	0.6
Earth Structures	4	50.0	69.8	1.0
Groundwater and Seepage	3	33.3	41.8	0.9
Problematic Soil and Rock Conditions	3	66.7	53.6	0.8
Earth Retaining Structures (ASD or LRFD)	5	20.0	41.9	1.2
Shallow Foundations (ASD or LRFD)	5	40.0	64.8	1.1
Deep Foundations (ASD or LRFD)	5	40.0	59.8	1.1

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

	Institution	ABET Comparator ²				
			Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	3	1,012				
No. Examinees Passing	3	602				
Percent Examinees Passing	100%	59%				
Project Planning			4	83.3	63.1	0.9
Means and Methods			3	100.0	72.2	0.7
Soil Mechanics			6	61.1	63.0	1.2
Structural Mechanics			6	94.4	78.7	1.2
Hydraulics and Hydrology			7	52.4	60.4	1.6
Geometrics			3	100.0	80.9	0.7
Materials			6	88.9	74.7	1.1
Site Development			5	93.3	84.1	1.0
Analysis of Structures: Loads and load applications			4	75.0	54.8	1.0
Analysis of Structures: Forces and load effects			10	73.3	59.6	1.9
Design and Details of Structures: Materials and material properties			5	73.3	67.9	1.3
Design and Details of Structures: Component design and detailing			15	77.8	58.0	2.7
Codes and Construction: Codes; standards; and guidance documents			4	58.3	51.0	1.0
Codes and Construction: Temporary structures and other topics			2	100.0	61.9	0.8

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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	8	1,199
No. Examinees Passing	6	754
Percent Examinees Passing	75%	63%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	68.8	61.9	0.8
Means and Methods	3	62.5	56.1	0.8
Soil Mechanics	6	62.5	57.0	1.2
Structural Mechanics	6	56.3	51.8	1.5
Hydraulics and Hydrology	7	67.9	56.1	1.5
Geometrics	3	91.7	87.4	0.6
Materials	6	77.1	69.3	1.2
Site Development	5	90.0	81.3	1.0
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	67.0	59.8	1.8
Horizontal Design	4	40.6	45.6	1.1
Vertical Design	4	65.6	60.4	1.0
Intersection Geometry	4	46.9	44.2	1.1
Roadside and Cross Section Design	4	56.3	58.2	1.0
Signal Design	3	41.7	48.5	0.9
Traffic Control Design	3	70.8	73.1	0.8
Geotechnical and Pavement	4	81.3	69.6	0.9
Drainage	2	37.5	30.8	0.7
Alternatives Analysis	1	75.0	57.7	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	2	1,033
No. Examinees Passing	1	658
Percent Examinees Passing	50%	64%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	50.0	59.7	0.9
Means and Methods	3	83.3	54.7	0.8
Soil Mechanics	6	41.7	58.2	1.2
Structural Mechanics	6	50.0	53.1	1.5
Hydraulics and Hydrology	7	64.3	66.1	1.4
Geometrics	3	83.3	81.6	0.7
Materials	6	66.7	67.2	1.2
Site Development	5	80.0	81.5	1.0
Analysis and Design	4	50.0	66.7	0.9
Hydraulics Closed Conduit	5	60.0	48.2	1.1
Hydraulics Open Channel	5	50.0	53.6	1.1
Hydrology	7	64.3	60.6	1.4
Groundwater and Wells	3	100.0	63.5	0.9
Wastewater Collection and Treatment	6	58.3	46.7	1.3
Water Quality	3	83.3	73.9	0.8
Drinking Water Distribution and Treatment	6	100.0	61.7	1.5
Engineering Economics Analysis	1	0.0	55.9	0.5

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	54
No. Examinees Passing	1	31
Percent Examinees Passing	50%	57%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Principles	4	50.0	56.9	1.0
Water: Wastewater	8	50.0	64.1	1.6
Water: Stormwater	2	75.0	55.6	0.7
Water: Potable Water	8	56.3	65.3	1.6
Water: Water Resources	2	100.0	49.1	0.7
Air: Principles	8	56.3	54.6	1.4
Air: Pollution Control	8	56.3	62.7	1.4
Solid and Hazardous Waste: Principles	6	41.7	67.3	1.2
Solid and Hazardous Waste: Municipal and Industrial Solid Waste	4	50.0	55.6	1.0
Solid and Hazardous Waste: Hazardous; Medical; and Radioactive Waste	2	0.0	49.1	0.7
Site Assessment and Remediation: Principles	6	75.0	67.6	1.2
Site Assessment and Remediation: Applications	8	93.8	73.4	1.8
Environmental Health and Safety: Principles	4	87.5	73.6	0.8
Environmental Health and Safety: Applications	4	25.0	34.7	0.9
Associated Engineering Principles: Principles	2	50.0	69.4	0.7
Associated Engineering Principles: Applications	4	62.5	61.6	1.2

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	7	676
No. Examinees Passing	3	366
Percent Examinees Passing	43%	54%

	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	46.4	56.5	1.0
General Power Engineering: Applications	8	66.1	65.1	1.6
General Power Engineering: Codes and Standards	12	64.3	64.0	1.9
Circuits: Analysis	9	63.5	61.9	1.7
Circuits: Devices and Power Electronic Circuits	7	51.0	59.4	1.4
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	8	58.9	64.0	1.5
Rotating Machines and Electric Power Devices: Electric Power Devices	8	51.8	57.3	1.5
Transmission and Distribution (High; Medium; and Low Voltage): Power System Analysis	11	63.6	56.3	2.1
Transmission and Distribution (High; Medium; and Low Voltage): Protection	13	56.0	60.4	2.4

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	24
No. Examinees Passing	0	12
Percent Examinees Passing	0%	50%

	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	50.0	57.3	1.1
General Power Engineering: Applications	8	37.5	65.6	1.6
General Power Engineering: Codes and Standards	12	25.0	59.4	2.2
Circuits: Analysis	9	33.3	59.3	2.0
Circuits: Devices and Power Electronic Circuits	7	42.9	61.9	1.5
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	8	50.0	61.5	1.6
Rotating Machines and Electric Power Devices: Electric Power Devices	8	37.5	62.0	1.5
Transmission and Distribution (High; Medium; and Low Voltage): Power System Analysis	11	63.6	56.8	1.9
Transmission and Distribution (High; Medium; and Low Voltage): Protection	13	23.1	59.0	2.5

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	5	440
No. Examinees Passing	4	298
Percent Examinees Passing	80%	68%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	4	95.0	77.9	0.8
Principles: Thermodynamics	4	75.0	66.1	1.0
Principles: Psychrometrics (e.g.; sea level; 5000-ft elevation)	8	95.0	72.6	1.6
Principles: Heat Transfer	7	77.1	71.5	1.3
Principles: Fluid Mechanics	4	45.0	47.3	1.0
Principles: Energy and Mass Balances	5	60.0	69.7	1.2
Applications: Heating and Cooling Loads	8	87.5	77.7	1.4
Applications: Equipment and Components	18	77.8	73.2	2.6
Applications: Systems and Components	18	58.9	61.9	2.8
Applications: Supportive Knowledge	4	60.0	62.5	1.1

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

	Institution	ABET Comparator²
No. Examinees Taking ¹	3	401
No. Examinees Passing	2	297
Percent Examinees Passing	67%	74%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation³
Principles: Basic Engineering Practice	9	81.5	80.1	1.5
Principles: Engineering Science and Mechanics	10	80.0	73.1	2.1
Principles: Material Properties	8	79.2	67.8	1.7
Principles: Strength of Materials	10	60.0	68.0	2.0
Principles: Vibration	3	55.6	54.0	0.8
Applications: Mechanical Components	18	68.5	67.3	3.1
Applications: Joints and Fasteners	12	72.2	69.0	2.4
Applications: Supportive Knowledge	10	80.0	76.5	1.8

- 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.

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2018
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	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 ³
Project Planning	4	50.0	50.0	0.0
Means and Methods	3	33.3	33.3	0.0
Soil Mechanics	6	66.7	66.7	0.0
Structural Mechanics	6	33.3	33.3	0.0
Hydraulics and Hydrology	7	71.4	71.4	0.0
Geometrics	3	100.0	100.0	0.0
Materials	6	33.3	33.3	0.0
Site Development	5	80.0	80.0	0.0
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	72.7	72.7	0.0
Horizontal Design	4	25.0	25.0	0.0
Vertical Design	4	75.0	75.0	0.0
Intersection Geometry	4	25.0	25.0	0.0
Roadside and Cross Section Design	4	0.0	0.0	0.0
Signal Design	3	33.3	33.3	0.0
Traffic Control Design	3	66.7	66.7	0.0
Geotechnical and Pavement	4	0.0	0.0	0.0
Drainage	2	50.0	50.0	0.0
Alternatives Analysis	1	100.0	100.0	0.0

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2018
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 ²
No. Examinees Taking ¹	6	47
No. Examinees Passing	3	30
Percent Examinees Passing	50%	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	27.8	51.1	0.9
Exploration: Site Geologic and Geotechnical Conditions	3	66.7	62.4	0.8
Exploration: Resources and Reserves	4	58.3	52.7	1.1
Mine Planning and Operations: Mining Methods and Layouts	8	62.5	67.6	1.1
Mine Planning and Operations: Mine Equipment; Facilities; and Systems	13	66.7	66.8	2.1
Mine Planning and Operations: Ground Control	5	66.7	66.0	1.3
Mine Planning and Operations: Mine Planning and Systems	5	60.0	60.0	1.1
Mineral Processing: Laboratory and Pilot Testing and Results	4	75.0	54.3	1.0
Mineral Processing: Process Flow Sheets	9	63.0	60.8	1.8
Mineral Processing: Plant Equipment; Facilities; and Systems	7	61.9	63.5	1.1
Mineral Processing: Plants and Facilities	4	45.8	63.3	1.1
Environment and Reclamation: Site; Mining; and Process Environment	4	66.7	62.2	0.8
Environment and Reclamation: Exploration; Mining; and Processing Impacts	5	53.3	55.7	1.3
Environment and Reclamation: Environmental and Reclamation Plan	3	66.7	80.9	0.7
Environment and Reclamation: Reclamation and Postclosure	3	38.9	51.8	0.8

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