

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 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	1	12
No. Examinees Passing	0	10
Percent Examinees Passing	0%	83%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	83.3	0.7
Means and Methods	3	66.7	55.6	0.6
Soil Mechanics	6	33.3	58.3	1.4
Structural Mechanics	6	16.7	38.9	1.1
Hydraulics and Hydrology	7	57.1	83.3	0.9
Geometrics	3	100.0	72.2	0.7
Materials	6	50.0	66.7	1.3
Site Development	5	60.0	58.3	1.4
Analysis and Design	4	75.0	83.3	0.8
Hydraulics Closed Conduit	5	0.0	80.0	1.4
Hydraulics Open Channel	5	60.0	73.3	1.0
Hydrology	7	85.7	85.7	0.7
Groundwater and Wells	3	66.7	75.0	0.6
Wastewater Collection and Treatment	6	83.3	62.5	1.1
Water Quality	3	33.3	58.3	0.9
Drinking Water Distribution and Treatment	6	33.3	56.9	1.4
Engineering Economics Analysis	1	100.0	66.7	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	31
No. Examinees Passing	1	21
Percent Examinees Passing	100%	68%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Principles	4	75.0	68.5	0.8
Water: Wastewater	8	62.5	50.8	1.6
Water: Stormwater	2	100.0	58.1	0.7
Water: Potable Water	8	50.0	62.1	1.3
Water: Water Resources	2	0.0	30.6	0.6
Air: Principles	8	87.5	72.6	1.2
Air: Pollution Control	8	100.0	75.0	1.3
Solid and Hazardous Waste: Principles	6	83.3	65.6	1.0
Solid and Hazardous Waste: Municipal and Industrial Solid Waste	4	100.0	73.4	0.9
Solid and Hazardous Waste: Hazardous; Medical; and Radioactive Waste	2	50.0	41.9	0.4
Site Assessment and Remediation: Principles	5	100.0	60.0	1.1
Site Assessment and Remediation: Applications	9	88.9	76.3	1.4
Environmental Health and Safety: Principles	4	100.0	82.3	0.7
Environmental Health and Safety: Applications	4	50.0	54.8	1.0
Associated Engineering Principles: Principles	2	50.0	53.2	0.4
Associated Engineering Principles: Applications	4	100.0	80.6	0.8

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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	7	682
No. Examinees Passing	3	405
Percent Examinees Passing	43%	59%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	82.1	83.4	0.8
Means and Methods	3	52.4	62.2	0.8
Soil Mechanics	6	61.9	59.6	1.3
Structural Mechanics	6	38.1	47.6	1.3
Hydraulics and Hydrology	7	71.4	70.5	1.4
Geometrics	3	66.7	76.2	0.7
Materials	6	81.0	76.8	1.3
Site Development	5	62.9	62.3	1.2
Earthwork Construction and Layout	6	78.6	72.8	1.3
Estimating Quantities and Costs	6	61.9	67.1	1.3
Construction Operations and Methods	7	51.0	57.1	1.6
Scheduling	5	80.0	77.9	1.0
Material Quality Control and Production	6	69.0	70.5	1.2
Temporary Structures	7	36.7	46.1	1.5
Construction Health and Safety	3	47.6	54.7	0.9

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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	7	330
No. Examinees Passing	6	201
Percent Examinees Passing	86%	61%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	92.9	78.8	0.8
Means and Methods	3	61.9	56.8	0.8
Soil Mechanics	6	85.7	76.5	1.3
Structural Mechanics	6	66.7	55.3	1.2
Hydraulics and Hydrology	7	83.7	74.6	1.4
Geometrics	3	81.0	75.1	0.7
Materials	6	85.7	78.2	1.2
Site Development	5	74.3	60.4	1.1
Site Characterization	5	57.1	56.5	1.1
Soil Mechanics; Laboratory Testing; and Analysis	5	71.4	71.4	1.2
Field Materials Testing; Methods; and Safety	3	81.0	68.7	0.8
Earthquake Engineering and Dynamic Loads	2	64.3	61.1	0.7
Earth Structures	4	89.3	80.8	0.8
Groundwater and Seepage	3	85.7	74.9	0.8
Problematic Soil and Rock Conditions	3	71.4	57.3	0.7
Earth Retaining Structures (ASD or LRFD)	5	51.4	60.2	1.2
Shallow Foundations (ASD or LRFD)	5	82.9	69.1	1.2
Deep Foundations (ASD or LRFD)	5	62.9	63.2	1.2

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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	3	1,209
No. Examinees Passing	3	733
Percent Examinees Passing	100%	61%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	91.7	83.0	0.8
Means and Methods	3	77.8	67.7	0.8
Soil Mechanics	6	66.7	66.8	1.3
Structural Mechanics	6	88.9	70.5	1.2
Hydraulics and Hydrology	7	90.5	75.0	1.3
Geometrics	3	100.0	79.5	0.6
Materials	6	94.4	77.1	1.1
Site Development	5	53.3	56.6	1.1
Analysis of Structures: Loads and load applications	4	58.3	62.1	1.0
Analysis of Structures: Forces and load effects	10	83.3	67.6	1.8
Design and Details of Structures: Materials and material properties	5	73.3	57.9	1.2
Design and Details of Structures: Component design and detailing	15	64.4	56.4	2.8
Codes and Construction: Codes; standards; and guidance documents	4	83.3	59.3	1.1
Codes and Construction: Temporary structures and other topics	2	66.7	54.7	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	14	1,469
No. Examinees Passing	9	972
Percent Examinees Passing	64%	66%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	71.4	76.8	0.9
Means and Methods	3	50.0	55.4	0.8
Soil Mechanics	6	57.1	54.8	1.3
Structural Mechanics	6	31.0	46.5	1.3
Hydraulics and Hydrology	7	60.2	71.8	1.4
Geometrics	3	88.1	81.2	0.6
Materials	6	65.5	73.1	1.2
Site Development	5	51.4	59.8	1.1
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	57.8	59.6	1.7
Horizontal Design	4	67.9	63.4	0.9
Vertical Design	4	53.6	66.5	1.0
Intersection Geometry	4	64.3	64.8	1.0
Roadside and Cross Section Design	4	57.1	60.5	1.0
Signal Design	3	57.1	50.9	0.9
Traffic Control Design	3	78.6	78.4	0.8
Geotechnical and Pavement	4	51.8	59.9	1.1
Drainage	2	71.4	81.4	0.6
Alternatives Analysis	1	35.7	51.1	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	6	1,169
No. Examinees Passing	4	836
Percent Examinees Passing	67%	72%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	91.7	77.3	0.9
Means and Methods	3	38.9	56.1	0.7
Soil Mechanics	6	47.2	56.4	1.4
Structural Mechanics	6	25.0	47.0	1.3
Hydraulics and Hydrology	7	78.6	77.6	1.3
Geometrics	3	77.8	77.5	0.6
Materials	6	77.8	72.5	1.2
Site Development	5	43.3	57.7	1.1
Analysis and Design	4	70.8	73.6	1.0
Hydraulics Closed Conduit	5	70.0	70.1	0.9
Hydraulics Open Channel	5	66.7	73.9	1.0
Hydrology	7	88.1	82.1	1.2
Groundwater and Wells	3	61.1	61.0	0.9
Wastewater Collection and Treatment	6	41.7	61.0	1.4
Water Quality	3	61.1	61.5	0.9
Drinking Water Distribution and Treatment	6	41.7	52.1	1.5
Engineering Economics Analysis	1	50.0	56.5	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	1	49
No. Examinees Passing	0	35
Percent Examinees Passing	0%	71%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Principles	4	50.0	72.4	1.0
Water: Wastewater	8	12.5	53.1	1.8
Water: Stormwater	2	0.0	62.2	0.7
Water: Potable Water	8	50.0	66.3	1.5
Water: Water Resources	2	50.0	39.8	0.7
Air: Principles	8	25.0	64.8	1.6
Air: Pollution Control	8	25.0	71.9	1.7
Solid and Hazardous Waste: Principles	6	33.3	66.3	1.0
Solid and Hazardous Waste: Municipal and Industrial Solid Waste	4	25.0	74.0	0.9
Solid and Hazardous Waste: Hazardous; Medical; and Radioactive Waste	2	0.0	51.0	0.6
Site Assessment and Remediation: Principles	5	40.0	69.4	1.0
Site Assessment and Remediation: Applications	9	55.6	77.6	1.6
Environmental Health and Safety: Principles	4	50.0	82.1	0.8
Environmental Health and Safety: Applications	4	25.0	59.2	1.2
Associated Engineering Principles: Principles	2	0.0	60.2	0.6
Associated Engineering Principles: Applications	4	50.0	78.6	0.8

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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	719
No. Examinees Passing	3	404
Percent Examinees Passing	43%	56%

	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	57.1	70.5	0.9
General Power Engineering: Applications	8	69.6	64.3	1.6
General Power Engineering: Codes and Standards	12	58.3	56.4	2.0
Circuits: Analysis	9	63.5	67.3	2.0
Circuits: Devices and Power Electronic Circuits	7	63.3	65.6	1.3
Rotating Machines and Electric Power Devices: Induction and Synchronous Machines	8	46.4	65.3	1.6
Rotating Machines and Electric Power Devices: Electric Power Devices	8	51.8	47.9	1.6
Transmission and Distribution (High; Medium; and Low Voltage): Power System Analysis	11	67.5	70.0	1.9
Transmission and Distribution (High; Medium; and Low Voltage): Protection	13	62.6	62.6	2.4

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

	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		4	448	
No. Examinees Passing		4	328	
Percent Examinees Passing		100%	73%	
Principles: Basic Engineering Practice	4	68.8	76.3	1.0
Principles: Thermodynamics	4	81.3	70.5	1.0
Principles: Psychrometrics (e.g., sea level; 5000-ft elevation)	8	90.6	76.5	1.6
Principles: Heat Transfer	7	82.1	78.8	1.1
Principles: Fluid Mechanics	3	91.7	74.0	0.8
Principles: Energy and Mass Balances	6	83.3	83.0	1.1
Applications: Heating and Cooling Loads	8	75.0	80.5	1.5
Applications: Equipment and Components	18	61.1	60.0	2.8
Applications: Systems and Components	18	91.7	76.8	2.7
Applications: Supportive Knowledge	4	81.3	62.2	0.9

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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	2	376
No. Examinees Passing	0	284
Percent Examinees Passing	0%	76%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation³
Principles: Basic Engineering Practice	9	44.4	68.0	1.7
Principles: Engineering Science and Mechanics	10	35.0	59.8	2.2
Principles: Material Properties	8	62.5	67.5	1.4
Principles: Strength of Materials	10	50.0	67.0	2.0
Principles: Vibration	3	83.3	71.5	0.8
Applications: Mechanical Components	18	50.0	65.0	3.4
Applications: Joints and Fasteners	12	70.8	74.2	2.1
Applications: Supportive Knowledge	10	65.0	71.5	2.0

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	395
No. Examinees Passing	1	278
Percent Examinees Passing	50%	70%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	6	83.3	82.1	1.1
Principles: Fluid Mechanics	6	75.0	81.2	1.0
Principles: Heat Transfer Principles (e.g.; convection; conduction; radiation)	6	66.7	75.7	1.3
Principles: Mass Balance Principles (e.g.; evaporation; dehumidification; mixing)	4	37.5	65.5	1.1
Principles: Thermodynamics	6	58.3	62.5	1.4
Principles: Supportive Knowledge	4	62.5	76.6	0.9
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	15	46.7	65.7	2.6
Hydraulic and Fluid Applications: Distribution Systems (e.g.; pipe flow)	9	50.0	66.0	1.7
Energy and Power System Applications: Energy and Power Equipment	8	50.0	73.0	1.7
Energy and Power System Applications: Cooling and Heating (e.g.; capacity; loads; cycles)	6	50.0	65.3	1.6
Energy and Power System Applications: Energy Recovery (e.g.; waste heat; storage)	5	70.0	74.6	1.3
Energy and Power System Applications: Combined Cycles (e.g.; components; efficiency)	5	70.0	59.7	1.2

- 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.

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 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-Construction

	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	1		4	
No. Examinees Passing	1		2	
Percent Examinees Passing	100%		50%	
Project Planning	4	100.0	87.5	0.5
Means and Methods	3	66.7	58.3	1.1
Soil Mechanics	6	83.3	66.7	1.6
Structural Mechanics	6	50.0	45.8	0.4
Hydraulics and Hydrology	7	85.7	85.7	0.7
Geometrics	3	66.7	58.3	0.4
Materials	6	83.3	79.2	1.1
Site Development	5	100.0	65.0	1.8
Earthwork Construction and Layout	6	83.3	83.3	0.7
Estimating Quantities and Costs	6	100.0	75.0	1.1
Construction Operations and Methods	7	85.7	64.3	2.3
Scheduling	5	80.0	80.0	0.7
Material Quality Control and Production	6	100.0	66.7	1.9
Temporary Structures	7	42.9	46.4	1.8
Construction Health and Safety	3	100.0	66.7	1.0

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