

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2014
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	13		
No. Examinees Passing	0	11		
Percent Examinees Passing	0%	85%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	62.5	82.7	0.8
Geotechnical	8	25.0	68.3	1.7
Structural	8	87.5	72.1	1.8
Transportation	8	75.0	77.9	0.9
Water Resources & Environmental	8	62.5	89.4	0.9
Hydraulics -- Closed Conduit	6	16.7	66.7	1.5
Hydraulics -- Open Channel	6	50.0	85.9	1.0
Hydrology	6	83.3	88.5	0.9
Groundwater and Well Fields	3	33.3	74.4	0.8
Wastewater Treatment	6	33.3	64.1	0.9
Water Quality	6	83.3	76.9	1.3
Water Treatment	6	33.3	73.1	1.2
Engineering Economics	1	0.0	61.5	0.5

- 0 examinees have been removed from this data because they were flagged as a random guesser.
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Name of Institution:	University of Kentucky, Lexington	
Major:	Agricultural	PE Examination: Mechanical-Mechanical Systems and Materials

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	2	5		
No. Examinees Passing	1	3		
Percent Examinees Passing	50%	60%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Basic Engineering Practice: Basic Engineering Practice	12	75.0	66.7	3.0
Mechanical Systems & Materials: Principles	5	90.0	88.0	0.5
Mechanical Systems & Materials: Applications	3	83.3	73.3	0.4
Hydraulics & Fluids: Principles	3	50.0	53.3	0.8
Hydraulics & Fluids: Applications	4	50.0	65.0	1.0
Energy & Power Systems: Principles	3	33.3	20.0	0.8
Energy & Power Systems: Applications	3	50.0	53.3	1.0
HVAC & Refrigeration: Principles	4	50.0	40.0	1.2
HVAC & Refrigeration: Applications	3	66.7	73.3	0.4
Principles: Statics (free-body diagrams)	6	58.3	53.3	1.2
Principles: Kinematics (linear & rotational motion)	3	50.0	66.7	1.1
Principles: Dynamics (particle & rigid body)	4	25.0	40.0	1.0
Principles: Materials Properties (physical)	4	50.0	65.0	0.8
Principles: Strength of Materials (stress & strain)	7	64.3	65.7	1.7
Applications: Mechanical Components	4	12.5	50.0	1.3
Applications: Joints & Fasteners	4	62.5	60.0	1.0
Applications: Vibration & Dynamic Analysis	4	37.5	50.0	0.6
Applications: Materials & Process	4	62.5	60.0	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	10	571
No. Examinees Passing	7	395
Percent Examinees Passing	70%	69%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	81.3	80.9	1.4
Geotechnical	8	72.5	71.5	1.5
Structural	8	58.8	73.9	1.5
Transportation	8	80.0	73.2	1.4
Water Resources & Environmental	8	88.8	78.0	1.4
Earthwork Construction & Layout	4	70.0	61.8	1.1
Estimating Quantities & Costs	7	55.7	59.5	1.3
Construction Operations & Methods	6	61.7	63.0	1.4
Scheduling	7	81.4	82.0	1.1
Material Quality Control & Production	4	62.5	63.4	0.9
Temporary Structures	5	42.0	42.8	1.0
Worker - Health & Safety & Environment	3	80.0	80.1	0.8
Other Topics	4	75.0	62.3	1.0

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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	12	304
No. Examinees Passing	10	220
Percent Examinees Passing	83%	72%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	81.3	81.3	1.3
Geotechnical	8	80.2	81.4	1.4
Structural	8	71.9	77.7	1.5
Transportation	8	72.9	75.3	1.3
Water Resources & Environmental	8	81.3	78.0	1.4
Subsurface Exploration & Sampling	3	52.8	67.1	0.8
Engineering Properties of Soils & Materials	5	85.0	82.5	1.0
Soil Mechanics Analysis	5	75.0	68.3	1.3
Earthquake Engineering	2	79.2	69.7	0.7
Earth Structures	4	75.0	63.8	1.1
Shallow Foundations	6	79.2	74.7	1.2
Earth Retaining Structures Including Temporary Structures	7	69.0	68.2	1.4
Deep Foundations	4	62.5	69.2	1.0
Other Topics	4	72.9	79.5	0.8

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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	705		
No. Examinees Passing	3	556		
Percent Examinees Passing	100%	79%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	87.5	82.0	1.2
Geotechnical	8	83.3	79.6	1.3
Structural	8	95.8	89.3	1.1
Transportation	8	83.3	78.1	1.2
Water Resources & Environmental	8	83.3	79.6	1.3
Loadings	5	66.7	54.6	1.3
Analysis	5	73.3	60.9	1.1
Mechanics of Materials	5	73.3	80.0	1.0
Materials	5	73.3	60.1	1.1
Member Design	10	86.7	76.0	1.8
Design Criteria	5	66.7	65.7	1.2
Other Topics	5	80.0	67.2	1.1

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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	36	894
No. Examinees Passing	25	606
Percent Examinees Passing	69%	68%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	79.2	76.1	1.4
Geotechnical	8	66.0	67.8	1.6
Structural	8	69.1	69.7	1.7
Transportation	8	79.2	78.3	1.2
Water Resources & Environmental	8	75.0	76.2	1.3
Traffic Analysis	9	73.1	77.2	1.5
Geometric Design	12	78.5	77.5	2.1
Transportation Planning	3	92.6	90.3	0.6
Traffic Safety	6	69.9	70.5	1.2
Other Topics	10	74.4	75.0	1.7

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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	11	583		
No. Examinees Passing	9	435		
Percent Examinees Passing	82%	75%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	78.4	77.6	1.4
Geotechnical	8	73.9	70.6	1.5
Structural	8	78.4	71.6	1.6
Transportation	8	83.0	75.9	1.2
Water Resources & Environmental	8	87.5	85.5	1.2
Hydraulics -- Closed Conduit	6	69.7	65.9	1.3
Hydraulics -- Open Channel	6	77.3	76.8	1.3
Hydrology	6	86.4	82.5	1.2
Groundwater and Well Fields	3	63.6	70.5	0.9
Wastewater Treatment	6	63.6	58.1	1.2
Water Quality	6	77.3	72.7	1.3
Water Treatment	6	66.7	69.0	1.4
Engineering Economics	1	63.6	45.1	0.5

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

	Institution	ABET Comparator ²		
	Institution	ABET Comparator ²	Number of Exam Questions	ABET Comparator Average Percent Correct
	Institution	ABET Comparator ²		ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	4	518		
No. Examinees Passing	4	357		
Percent Examinees Passing	100%	69%		
General Power Engineering: Measurement & Instrumentation	41.7	53.4	6	1.3
General Power Engineering: Special Applications	81.3	74.5	8	1.5
General Power Engineering: Codes & Standards	75.0	73.1	10	1.7
Circuit Analysis: Analysis	75.0	75.3	9	1.5
Circuit Analysis: Devices & Power Electronic Circuits	71.4	62.4	7	1.4
Rotating Machines & Electromagnetic Devices: Rotating Machines	70.0	65.0	10	1.7
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	87.5	66.9	6	1.2
Transmissions & Distribution: System Analysis	62.5	64.2	10	1.8
Transmissions & Distribution: Power System Performance	71.4	64.0	7	1.4
Transmissions & Distribution: Protection	78.6	70.0	7	1.4

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

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	2		
No. Examinees Passing	0	1		
Percent Examinees Passing	0%	50%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Basic Engineering Practice: Basic Engineering Practice	12	66.7	62.5	0.5
Mechanical Systems & Materials: Principles	5	80.0	80.0	0.0
Mechanical Systems & Materials: Applications	3	66.7	66.7	0.0
Hydraulics & Fluids: Principles	3	66.7	66.7	0.0
Hydraulics & Fluids: Applications	4	75.0	62.5	0.5
Energy & Power Systems: Principles	3	33.3	50.0	0.5
Energy & Power Systems: Applications	3	33.3	66.7	1.0
HVAC & Refrigeration: Principles	4	50.0	50.0	0.0
HVAC & Refrigeration: Applications	3	66.7	83.3	0.5
Principles: Materials Properties (density)	2	50.0	75.0	0.5
Principles: Fluid Mechanics	4	75.0	75.0	0.0
Principles: Heat Transfer Principles (convection)	4	50.0	50.0	0.0
Principles: Mass Balance Principles (evaporation)	3	33.3	33.3	0.0
Principles: Thermodynamics	4	50.0	62.5	0.5
Principles: Related Principles	1	0.0	0.0	0.0
Applications: Equipment	7	28.6	50.0	1.5
Applications: Systems	13	38.5	57.7	2.5
Applications: Codes & Standards	2	50.0	75.0	0.5

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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	16		
No. Examinees Passing	1	11		
Percent Examinees Passing	100%	69%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Power Engineering: Measurement & Instrumentation	6	83.3	54.2	1.2
General Power Engineering: Special Applications	8	75.0	80.5	1.0
General Power Engineering: Codes & Standards	10	70.0	73.1	1.6
Circuit Analysis: Analysis	9	77.8	75.0	1.4
Circuit Analysis: Devices & Power Electronic Circuits	7	57.1	66.1	1.0
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	60.0	65.6	2.0
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	66.7	70.8	1.1
Transmissions & Distribution: System Analysis	10	70.0	61.9	1.4
Transmissions & Distribution: Power System Performance	7	85.7	58.9	1.1
Transmissions & Distribution: Protection	7	85.7	67.9	1.5

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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		7	327	
No. Examinees Passing		4	244	
Percent Examinees Passing		57%	75%	
Basic Engineering Practice: Basic Engineering Practice	12	65.5	68.0	1.8
Mechanical Systems & Materials: Principles	5	74.3	80.1	1.0
Mechanical Systems & Materials: Applications	3	71.4	75.1	0.8
Hydraulics & Fluids: Principles	3	66.7	60.1	0.9
Hydraulics & Fluids: Applications	4	78.6	74.9	1.0
Energy & Power Systems: Principles	3	33.3	42.6	1.0
Energy & Power Systems: Applications	3	85.7	74.9	0.8
HVAC & Refrigeration: Principles	4	67.9	74.5	1.2
HVAC & Refrigeration: Applications	3	90.5	88.4	0.6
Principles: Thermodynamics	3	66.7	59.6	0.8
Principles: Psychrometrics	6	61.9	69.5	1.4
Principles: Heat Transfer	5	57.1	60.8	1.2
Principles: Fluid Mechanics	3	57.1	63.5	0.8
Principles: Compressible Flow	1	42.9	39.8	0.5
Principles: Energy Balances	4	67.9	74.4	0.8
Applications: Equipment and Components	8	67.9	66.9	1.8
Applications: Systems	7	73.5	67.1	1.5
Applications: Supportive Knowledges	3	57.1	69.3	0.9

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Name of Institution:	University of Kentucky, Lexington	
Major:	Mechanical	PE Examination: Mechanical-Mechanical Systems and Materials

	Institution	ABET Comparator ²		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	Number of Exam Questions	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	6	330		
No. Examinees Passing	3	241		
Percent Examinees Passing	50%	73%		
Basic Engineering Practice: Basic Engineering Practice	68.1	73.0	12	1.7
Mechanical Systems & Materials: Principles	90.0	85.5	5	0.9
Mechanical Systems & Materials: Applications	88.9	87.1	3	0.6
Hydraulics & Fluids: Principles	72.2	68.4	3	0.8
Hydraulics & Fluids: Applications	70.8	72.4	4	1.0
Energy & Power Systems: Principles	27.8	43.3	3	1.1
Energy & Power Systems: Applications	44.4	67.7	3	0.9
HVAC & Refrigeration: Principles	45.8	51.1	4	1.1
HVAC & Refrigeration: Applications	72.2	78.5	3	0.7
Principles: Statics (free-body diagrams)	75.0	66.9	6	1.4
Principles: Kinematics (linear & rotational motion)	66.7	58.7	3	1.0
Principles: Dynamics (particle & rigid body)	45.8	49.9	4	1.2
Principles: Materials Properties (physical)	83.3	79.4	4	0.9
Principles: Strength of Materials (stress & strain)	57.1	56.8	7	1.5
Applications: Mechanical Components	41.7	44.4	4	1.0
Applications: Joints & Fasteners	70.8	70.5	4	1.0
Applications: Vibration & Dynamic Analysis	29.2	48.6	4	1.2
Applications: Materials & Process	41.7	61.4	4	1.0

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2014
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	4	323		
No. Examinees Passing	2	227		
Percent Examinees Passing	50%	70%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Basic Engineering Practice: Basic Engineering Practice	12	64.6	71.4	1.7
Mechanical Systems & Materials: Principles	5	65.0	84.2	0.8
Mechanical Systems & Materials: Applications	3	83.3	79.8	0.7
Hydraulics & Fluids: Principles	3	58.3	71.9	0.8
Hydraulics & Fluids: Applications	4	62.5	79.3	0.9
Energy & Power Systems: Principles	3	41.7	61.5	1.0
Energy & Power Systems: Applications	3	50.0	75.9	0.9
HVAC & Refrigeration: Principles	4	68.8	60.4	1.3
HVAC & Refrigeration: Applications	3	75.0	83.4	0.7
Principles: Materials Properties (density)	2	50.0	52.2	0.7
Principles: Fluid Mechanics	4	68.8	64.7	0.8
Principles: Heat Transfer Principles (convection)	4	43.8	57.7	1.1
Principles: Mass Balance Principles (evaporation)	3	50.0	61.5	0.9
Principles: Thermodynamics	4	75.0	64.9	1.1
Principles: Related Principles	1	25.0	40.2	0.5
Applications: Equipment	7	53.6	60.8	1.6
Applications: Systems	13	46.2	53.3	2.4
Applications: Codes & Standards	2	62.5	65.8	0.6

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2014
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	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
Construction	8	100.0	100.0	0.0
Geotechnical	8	62.5	62.5	0.0
Structural	8	50.0	50.0	0.0
Transportation	8	87.5	87.5	0.0
Water Resources & Environmental	8	75.0	75.0	0.0
Subsurface Exploration & Sampling	3	33.3	33.3	0.0
Engineering Properties of Soils & Materials	5	100.0	100.0	0.0
Soil Mechanics Analysis	5	40.0	40.0	0.0
Earthquake Engineering	2	0.0	0.0	0.0
Earth Structures	4	75.0	75.0	0.0
Shallow Foundations	6	50.0	50.0	0.0
Earth Retaining Structures Including Temporary Structures	7	71.4	71.4	0.0
Deep Foundations	4	25.0	25.0	0.0
Other Topics	4	75.0	75.0	0.0

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- Comparator includes all examinees from programs accredited by the ABET commission noted.
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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2014
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	4		
No. Examinees Passing	0	1		
Percent Examinees Passing	0%	25%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	75.0	75.0	0.7
Geotechnical	8	50.0	56.3	2.1
Structural	8	50.0	43.8	1.5
Transportation	8	100.0	78.1	1.5
Water Resources & Environmental	8	75.0	59.4	2.2
Traffic Analysis	9	44.4	50.0	0.9
Geometric Design	12	66.7	66.7	1.9
Transportation Planning	3	66.7	91.7	0.4
Traffic Safety	6	66.7	79.2	0.8
Other Topics	10	60.0	70.0	0.7

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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2014
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

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

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	37.5	37.5	0.0
Geotechnical	8	62.5	62.5	0.0
Structural	8	75.0	75.0	0.0
Transportation	8	87.5	87.5	0.0
Water Resources & Environmental	8	87.5	87.5	0.0
Hydraulics -- Closed Conduit	6	66.7	66.7	0.0
Hydraulics -- Open Channel	6	83.3	83.3	0.0
Hydrology	6	83.3	83.3	0.0
Groundwater and Well Fields	3	66.7	66.7	0.0
Wastewater Treatment	6	50.0	50.0	0.0
Water Quality	6	100.0	100.0	0.0
Water Treatment	6	50.0	50.0	0.0
Engineering Economics	1	0.0	0.0	0.0

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