

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—May 31, 2015
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Paducah		
Major:	Chemical	PE Examination:	Chemical

	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	1	161		
No. Examinees Passing	1	113		
Percent Examinees Passing	100%	70%		
Mass Energy Balances and Thermodynamics: Mass Balances	87.5	58.4	8	1.5
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	80.0	60.0	10	2.0
Heat Transfer: Mechanisms	71.4	70.7	7	1.6
Heat Transfer: Applications	50.0	64.5	6	1.6
Kinetics: Reaction Parameters	100.0	63.5	5	1.2
Kinetics: Reactors	75.0	61.6	4	1.0
Fluids: Mechanical-Energy Balance	55.6	67.8	9	1.8
Fluids: Flow and Pressure Measurement Techniques	75.0	55.1	4	0.9
Mass Transfer: Phase Equilibria	75.0	57.5	4	1.0
Mass Transfer: Continuous Vapor-Liquid Contactors	83.3	61.1	6	1.4
Mass Transfer: Miscellaneous Mass Transfer Processes	100.0	33.5	1	0.5
Plant Design and Operation: Economic Considerations	100.0	80.1	1	0.4
Plant Design and Operation: Design	62.5	61.9	8	1.5
Plant Design and Operation: Operation	66.7	75.4	3	0.8
Plant Design and Operation: Safety; Health; and Environment	75.0	69.7	4	1.0

- 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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Name of Institution:	University of Kentucky, Paducah		
Major:	Mechanical	PE Examination:	Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	5		
No. Examinees Passing	0	2		
Percent Examinees Passing	0%	40%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Basic Principles	4	75.0	55.0	1.5
Water: Wastewater	10	50.0	62.0	0.7
Water: Stormwater	4	75.0	55.0	0.7
Water: Potable Water	10	50.0	50.0	1.9
Water: Water Resources	4	50.0	60.0	1.0
Solid Waste: Basic Principles	4	100.0	65.0	1.4
Solid Waste: Municipal and Industrial Solid Waste	5	100.0	68.0	1.2
Solid Waste: Hazardous Waste	6	50.0	66.7	1.1
Solid Waste: Medical; Radioactive; Other Waste	3	0.0	33.3	0.9
Air: Basic Principles	8	25.0	57.5	1.9
Air: Pollution Control	15	46.7	65.3	2.8
Site Assessment and Remediation: Basic Principles	5	40.0	64.0	1.5
Site Assessment and Remediation: Site Assessment	3	66.7	73.3	0.7
Site Assessment and Remediation: Remediation	4	75.0	80.0	0.7
Environmental Health and Safety: Environmental Health and Safety	8	37.5	52.5	1.6
Associated Engineering Principles: Associated Engineering Principles	7	57.1	77.1	1.6

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

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	360		
No. Examinees Passing	0	241		
Percent Examinees Passing	0%	67%		
	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	69.0	2.2
Mechanical Systems & Materials: Principles	5	60.0	62.8	1.2
Mechanical Systems & Materials: Applications	3	66.7	72.6	0.7
Hydraulic & Fluids: Principles	3	100.0	83.7	0.7
Hydraulic & Fluids: Applications	4	100.0	78.1	0.9
Energy & Power Systems: Principles	3	33.3	59.4	1.0
Energy & Power Systems: Applications	3	33.3	72.4	0.9
HVAC & Refrigeration: Principles	4	50.0	74.7	1.1
HVAC & Refrigeration: Applications	3	33.3	70.6	0.7
Principles: Materials Properties (density)	2	50.0	56.0	0.8
Principles: Fluid Mechanics	4	50.0	46.7	1.1
Principles: Heat Transfer Principles (convection)	4	75.0	71.5	1.0
Principles: Mass Balance Principles (evaporation)	3	33.3	60.6	0.9
Principles: Thermodynamics	4	75.0	54.0	1.0
Principles: Related Principles	1	0.0	75.8	0.4
Applications: Equipment	7	57.1	54.2	1.6
Applications: Systems	13	15.4	50.1	2.8
Applications: Codes & Standards	2	50.0	76.4	0.6

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