

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Nov 30, 2014
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	176		
No. Examinees Passing	1	132		
Percent Examinees Passing	100%	75%		
Mass Energy Balances and Thermodynamics: Mass Balances	75.0	61.5	8	1.9
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	70.0	63.0	10	1.9
Heat Transfer: Mechanisms	71.4	64.7	7	1.3
Heat Transfer: Applications	83.3	62.4	6	1.4
Kinetics: Reaction Parameters	80.0	56.9	5	1.2
Kinetics: Reactors	75.0	57.8	4	1.1
Fluids: Mechanical-Energy Balance	90.0	67.0	10	2.0
Fluids: Flow and Pressure Measurement Techniques	66.7	69.2	3	0.9
Mass Transfer: Phase Equilibria	100.0	67.5	4	1.1
Mass Transfer: Continuous Vapor-Liquid Contactors	50.0	49.4	6	1.4
Mass Transfer: Miscellaneous Mass Transfer Processes	100.0	87.9	1	0.3
Plant Design and Operation: Economic Considerations	100.0	77.0	1	0.4
Plant Design and Operation: Design	87.5	65.7	8	1.7
Plant Design and Operation: Operation	66.7	62.6	3	0.8
Plant Design and Operation: Safety; Health; and Environment	50.0	69.8	4	0.9

- 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: 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	1	337		
No. Examinees Passing	0	227		
Percent Examinees Passing	0%	67%		
Basic Engineering Practice: Basic Engineering Practice	58.3	80.5	12	1.6
Mechanical Systems & Materials: Principles	20.0	46.3	5	1.4
Mechanical Systems & Materials: Applications	66.7	75.6	3	0.7
Hydraulic & Fluids: Principles	33.3	75.6	3	0.8
Hydraulic & Fluids: Applications	100.0	73.3	4	1.1
Energy & Power Systems: Principles	33.3	53.0	3	0.9
Energy & Power Systems: Applications	33.3	54.8	3	1.0
HVAC & Refrigeration: Principles	75.0	76.0	4	0.9
HVAC & Refrigeration: Applications	33.3	52.5	3	0.9
Principles: Statics (free-body diagrams)	33.3	65.7	6	1.3
Principles: Kinematics (linear & rotational motion)	33.3	51.9	3	1.0
Principles: Dynamics (particle & rigid body)	0.0	59.4	4	1.2
Principles: Materials Properties (physical)	25.0	67.3	4	1.0
Principles: Strength of Materials (stress & strain)	71.4	51.9	7	1.5
Applications: Mechanical Components	25.0	61.1	4	1.0
Applications: Joints & Fasteners	50.0	60.1	4	1.1
Applications: Vibration & Dynamic Analysis	25.0	56.5	4	1.1
Applications: Materials & Process	25.0	49.0	4	1.1

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