

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2016
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	322
No. Examinees Passing	2	235
Percent Examinees Passing	100%	73%

	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	72.1	1.9
Mechanical Systems & Materials: Principles	5	60.0	69.5	1.4
Mechanical Systems & Materials: Applications	3	66.7	61.4	0.9
Hydraulic & Fluids: Principles	3	66.7	57.8	0.8
Hydraulic & Fluids: Applications	4	87.5	73.9	0.9
Energy & Power Systems: Principles	3	50.0	55.4	1.0
Energy & Power Systems: Applications	3	66.7	58.5	0.9
HVAC & Refrigeration: Principles	5	70.0	65.3	1.2
HVAC & Refrigeration: Applications	2	100.0	71.7	0.7
Principles: Statics (free-body diagrams)	6	75.0	66.3	1.4
Principles: Kinematics (linear & rotational motion)	3	16.7	52.7	0.9
Principles: Dynamics (particle & rigid body)	4	37.5	53.0	1.1
Principles: Materials Properties (physical)	4	62.5	66.1	1.0
Principles: Strength of Materials (stress & strain)	7	64.3	58.3	1.6
Applications: Mechanical Components	4	87.5	79.1	0.9
Applications: Joints & Fasteners	4	12.5	60.8	1.1
Applications: Vibration & Dynamic Analysis	4	50.0	53.7	1.0
Applications: Materials & Process	4	75.0	71.7	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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