

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, Paducah		
Major:	Mechanical	PE Examination:	Mechanical: HVAC and Refrigeration

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	448		
No. Examinees Passing	0	328		
Percent Examinees Passing	0%	73%		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	Number of Exam Questions	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	100.0	76.3	4	1.0
Principles: Thermodynamics	75.0	70.5	4	1.0
Principles: Psychrometrics (e.g.; sea level; 5000-ft elevation)	25.0	76.5	8	1.6
Principles: Heat Transfer	71.4	78.8	7	1.1
Principles: Fluid Mechanics	33.3	74.0	3	0.8
Principles: Energy and Mass Balances	33.3	83.0	6	1.1
Applications: Heating and Cooling Loads	37.5	80.5	8	1.5
Applications: Equipment and Components	50.0	60.0	18	2.8
Applications: Systems and Components	66.7	76.8	18	2.7
Applications: Supportive Knowledge	25.0	62.2	4	0.9

1. 0 examinees have been removed from this data because they were flagged as a random guesser.
2. Comparator includes all examinees from programs accredited by the ABET commission noted.
3. 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: Thermal and Fluids Systems

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	395
No. Examinees Passing	0	278
Percent Examinees Passing	0%	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	66.7	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	50.0	65.5	1.1
Principles: Thermodynamics	6	16.7	62.5	1.4
Principles: Supportive Knowledge	4	75.0	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	55.6	66.0	1.7
Energy and Power System Applications: Energy and Power Equipment	8	75.0	73.0	1.7
Energy and Power System Applications: Cooling and Heating (e.g.; capacity; loads; cycles)	6	66.7	65.3	1.6
Energy and Power System Applications: Energy Recovery (e.g.; waste heat; storage)	5	80.0	74.6	1.3
Energy and Power System Applications: Combined Cycles (e.g.; components; efficiency)	5	60.0	59.7	1.2

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