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Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2019
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	470		
No. Examinees Passing	0	365		
Percent Examinees Passing	0%	78%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	4	75.0	84.9	0.9
Principles: Thermodynamics	4	50.0	83.9	0.8
Principles: Psychrometrics (e.g.; sea level; 5000-ft elevation)	8	62.5	78.8	1.5
Principles: Heat Transfer	7	28.6	69.6	1.6
Principles: Fluid Mechanics	4	75.0	64.5	1.2
Principles: Energy and Mass Balances	5	20.0	76.2	1.2
Applications: Heating and Cooling Loads	8	75.0	68.4	1.7
Applications: Equipment and Components	18	66.7	70.6	2.6
Applications: Systems and Components	18	61.1	72.2	2.8
Applications: Supportive Knowledge	4	50.0	77.7	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	350	
No. Examinees Passing		0	245	
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	33.3	73.4	1.3
Principles: Fluid Mechanics	6	66.7	73.9	1.3
Principles: Heat Transfer Principles (e.g.; convection; conduction; radiation)	6	33.3	86.8	1.1
Principles: Mass Balance Principles (e.g.; evaporation; dehumidification; mixing)	4	75.0	78.0	1.0
Principles: Thermodynamics	6	83.3	70.7	1.2
Principles: Supportive Knowledge	4	50.0	73.6	1.0
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	15	60.0	69.7	2.6
Hydraulic and Fluid Applications: Distribution Systems (e.g.; pipe flow)	9	66.7	69.8	1.7
Energy and Power System Applications: Energy and Power Equipment	8	25.0	64.2	1.9
Energy and Power System Applications: Cooling and Heating (e.g.; capacity; loads; cycles)	6	50.0	68.8	1.5
Energy and Power System Applications: Energy Recovery (e.g.; waste heat; storage)	5	40.0	60.9	1.4
Energy and Power System Applications: Combined Cycles (e.g.; components; efficiency)	5	20.0	52.9	1.5

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