



NCEES

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 – Jun 30, 2022
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	301
No. Examinees Passing	2	206
Percent Examinees Passing	100%	68%

Uncertainty Range for Scaled Score ⁴ ± 0.71
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	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Principles: Basic Engineering Practice	5	9.3	9.8	3.1	0.95	-0.16
Principles: Fluid Mechanics	5	9.6	9.3	3.4	1.03	0.09
Principles: Heat Transfer Principles	5	8.1	10.5	3.3	0.77	-0.73
Principles: Mass Balance Principles	4	15.0	9.8	3.8	1.53	1.37
Principles: Thermodynamics	5	11.9	9.7	3.1	1.23	0.71
Principles: Supportive Knowledge	4	9.5	10.1	3.5	0.94	-0.17
Hydraulic and Fluid Applications: Distribution Systems	8	11.0	9.3	2.4	1.18	0.71
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	13	9.7	9.3	1.9	1.04	0.21
Energy/Power System Applications: Energy/Power Equipment	7	10.7	9.6	2.7	1.11	0.41
Energy/Power System Applications: Cooling/Heating	5	9.5	10.0	2.9	0.95	-0.17
Energy/Power System Applications: Energy Recovery	5	9.8	10.2	3.7	0.96	-0.11
Energy/Power System Applications: Combined Cycles	4	9.6	9.7	3.8	0.99	-0.03

- 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.
- Performance index is based on a 0–15 scale.
- These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <https://ncees.org/education/outcomes-assessment/>.

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