

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, Lexington		
Major:	Agricultural	PE Examination:	Civil-Transportation

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	2
No. Examinees Passing	0	1
Percent Examinees Passing	0%	50%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	75.0	75.0	0.0
Geotechnical	8	75.0	81.3	0.5
Structural	8	25.0	25.0	0.0
Transportation	8	50.0	62.5	1.0
Water Resources & Environmental	8	50.0	62.5	1.0
Traffic Analysis	9	44.4	61.1	1.5
Geometric Design	12	58.3	62.5	0.5
Transportation Planning	3	33.3	50.0	0.5
Traffic Safety	6	66.7	66.7	0.0
Other Topics	10	30.0	40.0	1.0

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Chemical	PE Examination:	Chemical

	Institution	ABET Comparator ²			
			Number of Exam Questions	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	3	176			
No. Examinees Passing	2	132			
Percent Examinees Passing	67%	75%			
Mass Energy Balances and Thermodynamics: Mass Balances	62.5	61.5	8	61.5	1.9
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	50.0	63.0	10	63.0	1.9
Heat Transfer: Mechanisms	71.4	64.7	7	64.7	1.3
Heat Transfer: Applications	50.0	62.4	6	62.4	1.4
Kinetics: Reaction Parameters	53.3	56.9	5	56.9	1.2
Kinetics: Reactors	41.7	57.8	4	57.8	1.1
Fluids: Mechanical-Energy Balance	80.0	67.0	10	67.0	2.0
Fluids: Flow and Pressure Measurement Techniques	77.8	69.2	3	69.2	0.9
Mass Transfer: Phase Equilibria	50.0	67.5	4	67.5	1.1
Mass Transfer: Continuous Vapor-Liquid Contactors	22.2	49.4	6	49.4	1.4
Mass Transfer: Miscellaneous Mass Transfer Processes	66.7	87.9	1	87.9	0.3
Plant Design and Operation: Economic Considerations	66.7	77.0	1	77.0	0.4
Plant Design and Operation: Design	45.8	65.7	8	65.7	1.7
Plant Design and Operation: Operation	44.4	62.6	3	62.6	0.8
Plant Design and Operation: Safety; Health; and Environment	41.7	69.8	4	69.8	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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Civil	PE Examination:	Civil-Construction

	Institution	ABET Comparator ²
No. Examinees Taking ¹	8	513
No. Examinees Passing	3	302
Percent Examinees Passing	38%	59%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	65.6	78.5	1.3
Geotechnical	8	65.6	72.7	1.5
Structural	8	57.8	73.2	1.5
Transportation	8	64.1	66.1	1.6
Water Resources & Environmental	8	56.3	67.6	1.7
Earthwork Construction & Layout	4	56.3	66.3	1.0
Estimating Quantities & Costs	7	58.9	61.7	1.6
Construction Operations & Methods	6	62.5	69.4	1.3
Scheduling	7	62.5	69.4	1.5
Material Quality Control & Production	4	81.3	81.7	0.9
Temporary Structures	5	47.5	46.6	1.3
Worker - Health & Safety & Environment	3	54.2	64.3	0.8
Other Topics	4	40.6	50.8	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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington	
Major:	Civil	PE Examination:	Civil-Geotechnical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	286
No. Examinees Passing	1	192
Percent Examinees Passing	25%	67%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	75.0	75.5	1.3
Geotechnical	8	71.9	78.8	1.4
Structural	8	71.9	79.5	1.4
Transportation	8	68.8	70.8	1.5
Water Resources & Environmental	8	59.4	72.3	1.6
Subsurface Exploration & Sampling	3	66.7	82.3	0.7
Engineering Properties of Soils & Materials	5	55.0	76.6	1.0
Soil Mechanics Analysis	5	45.0	61.5	1.1
Earthquake Engineering	2	75.0	56.5	0.7
Earth Structures	4	56.3	60.5	1.1
Shallow Foundations	6	37.5	55.0	1.4
Earth Retaining Structures Including Temporary Structures	7	67.9	61.8	1.4
Deep Foundations	4	43.8	58.2	1.1
Other Topics	4	75.0	70.8	1.1

- 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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington	
Major:	Civil	PE Examination:	Civil-Structural

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	622
No. Examinees Passing	5	481
Percent Examinees Passing	83%	77%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	81.3	81.5	1.3
Geotechnical	8	79.2	80.6	1.4
Structural	8	87.5	88.0	1.1
Transportation	8	70.8	72.9	1.5
Water Resources & Environmental	8	75.0	76.0	1.5
Loadings	5	66.7	72.7	1.1
Analysis	5	93.3	82.5	1.0
Mechanics of Materials	5	46.7	42.8	1.2
Materials	5	63.3	64.4	1.1
Member Design	10	58.3	50.1	1.9
Design Criteria	5	46.7	44.5	1.0
Other Topics	5	90.0	72.2	1.1

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington	
Major:	Civil	PE Examination:	Civil-Transportation

	Institution	ABET Comparator ²
No. Examinees Taking ¹	11	811
No. Examinees Passing	7	552
Percent Examinees Passing	64%	68%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	70.5	74.2	1.3
Geotechnical	8	67.0	70.0	1.5
Structural	8	59.1	70.9	1.5
Transportation	8	75.0	76.4	1.5
Water Resources & Environmental	8	63.6	69.1	1.6
Traffic Analysis	9	66.7	69.7	1.6
Geometric Design	12	57.6	62.8	2.0
Transportation Planning	3	54.5	61.4	0.9
Traffic Safety	6	71.2	65.5	1.3
Other Topics	10	64.5	66.9	1.9

- 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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington	
Major:	Civil	PE Examination:	Civil-Water Resources and Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	3	643		
No. Examinees Passing	2	474		
Percent Examinees Passing	67%	74%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Construction	8	75.0	76.0	1.3
Geotechnical	8	70.8	72.2	1.6
Structural	8	66.7	72.6	1.5
Transportation	8	70.8	71.5	1.6
Water Resources & Environmental	8	75.0	79.6	1.4
Hydraulics -- Closed Conduit	6	61.1	59.3	1.4
Hydraulics -- Open Channel	6	77.8	73.7	1.3
Hydrology	6	88.9	80.9	1.0
Groundwater and Well Fields	3	88.9	88.6	0.5
Wastewater Treatment	6	55.6	54.9	1.3
Water Quality	6	61.1	61.6	1.3
Water Treatment	6	66.7	69.3	1.3
Engineering Economics	1	66.7	80.4	0.4

- 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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Civil	PE Examination:	Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	43		
No. Examinees Passing	0	22		
Percent Examinees Passing	0%	51%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Basic Principles	4	100.0	68.6	1.0
Water: Wastewater	10	50.0	60.2	1.8
Water: Stormwater	4	75.0	70.3	1.1
Water: Potable Water	10	60.0	60.0	2.1
Water: Water Resources	4	50.0	49.4	1.1
Solid Waste: Basic Principles	3	66.7	61.2	0.9
Solid Waste: Municipal and Industrial Solid Waste	6	50.0	67.1	1.2
Solid Waste: Hazardous Waste	6	50.0	57.0	1.3
Solid Waste: Medical; Radioactive; Other Waste	3	66.7	64.3	0.7
Air: Basic Principles	7	14.3	43.2	1.2
Air: Pollution Control	16	43.8	72.4	2.5
Site Assessment and Remediation: Basic Principles	4	75.0	62.2	1.1
Site Assessment and Remediation: Site Assessment	3	66.7	70.5	0.7
Site Assessment and Remediation: Remediation	5	100.0	62.3	1.2
Environmental Health and Safety: Environmental Health and Safety	8	37.5	71.2	1.3
Associated Engineering Principles: Associated Engineering Principles	7	14.3	61.1	1.6

- 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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington	
Major:	Civil	PE Examination:	Mining and Mineral Processing

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	3
No. Examinees Passing	2	3
Percent Examinees Passing	100%	100%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Exploration: Apply exploration methods & techniques	3	83.3	77.8	0.5
Exploration: Characterize site geologic & geotechnical conditions	3	50.0	33.3	0.8
Exploration: Estimate & characterize & evaluate resource reserves	4	37.5	41.7	0.5
Mine Planning & Operations: Plan & design & implement mining methods and layouts	8	81.3	75.0	1.4
Mine Planning & Operations: Plan & design & select and-or construct mine equipment and facilities and systems	13	57.7	51.3	1.7
Mine Planning & Operations: Evaluate & design ground control	7	50.0	47.6	0.5
Mine Planning & Operations: Operate & manage mines & systems	4	62.5	75.0	0.8
Mineral Processing: Perform laboratory & pilot testing and analysis	4	50.0	41.7	0.9
Mineral Processing: Design & evaluate process flow sheets	9	27.8	29.6	0.5
Mineral Processing: Plan & design & select and-or construct plant equipment and facilities and systems	7	50.0	42.9	1.4
Mineral Processing: Operate & manage plants & facilities	4	75.0	58.3	1.2
Environment & Reclamation: Characterize site & mining & process environment	4	75.0	66.7	0.9
Environment & Reclamation: Plan & design to mitigate exploration & mining & processing impacts	5	70.0	80.0	0.8
Environment & Reclamation: Operate & manage environmental & reclamation plan	3	33.3	44.4	0.5
Environment & Reclamation: Close & reclaim the site	2	25.0	33.3	0.5

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Electrical	PE Examination:	Control Systems

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	91		
No. Examinees Passing	1	71		
Percent Examinees Passing	100%	78%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Measurement: Measurement	16	87.5	65.7	2.4
Signals; Transmission; and Networking: Signals	4	100.0	76.1	0.9
Signals; Transmission; and Networking: Transmission	4	100.0	84.9	0.9
Signals; Transmission; and Networking: Networking	4	25.0	64.0	0.9
Final Control Elements: Valves	7	57.1	62.3	1.4
Final Control Elements: Pressure Relieving Devices	3	66.7	46.5	0.8
Final Control Elements: Motor Controls	4	100.0	86.0	0.9
Final Control Elements: Other Final Control Elements	2	100.0	83.0	0.5
Control Systems: Drawings	4	50.0	74.7	0.9
Control Systems: Theory	6	83.3	70.9	1.2
Control Systems: Implementation	8	75.0	71.7	1.4
Safety Systems: Basic documentation	2	100.0	75.8	0.6
Safety Systems: Theory	4	50.0	59.1	1.0
Safety Systems: Implementation	6	83.3	75.3	1.2
Codes; Standards; and Regulations: Codes; Standards; and Regulations	6	66.7	71.2	1.2

- 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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Electrical	PE Examination:	Electrical and Computer: Power

	Institution	ABET Comparator ²		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
No. Examinees Taking ¹		9	530	
No. Examinees Passing		7	329	
Percent Examinees Passing		78%	62%	
General Power Engineering: Measurement & Instrumentation	6	66.7	68.7	1.1
General Power Engineering: Special Applications	8	63.9	66.0	1.6
General Power Engineering: Codes & Standards	10	55.6	58.4	1.7
Circuit Analysis: Analysis	9	70.4	62.5	1.8
Circuit Analysis: Devices & Power Electronic Circuits	7	65.1	70.5	1.5
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	71.1	60.5	1.9
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	70.4	57.2	1.4
Transmissions & Distribution: System Analysis	10	77.8	58.6	2.0
Transmissions & Distribution: Power System Performance	6	63.0	52.9	1.2
Transmissions & Distribution: Protection	8	66.7	63.9	1.4

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington	
Major:	Materials	PE Examination:	Metallurgical and Materials

	Institution	ABET Comparator ²		
	Institution	ABET Comparator ²	Number of Exam Questions	ABET Comparator Average Percent Correct
	Institution	ABET Comparator ²		ABET Comparator Standard Deviation ³
No. Examinees Taking ¹	1	9		
No. Examinees Passing	0	6		
Percent Examinees Passing	0%	67%		
Foundation Topics: Statistics	25.0	58.3	4	0.9
Foundation Topics: Physical-Engineering Sciences	66.7	46.9	9	1.7
Foundation Topics: Mechanics of Materials	33.3	55.6	3	1.1
Foundation Topics: Process Fundamentals	60.0	58.9	10	1.5
Structure & Properties: Structure-Phase-Transformations	62.5	62.5	8	1.1
Structure & Properties: Mechanical Properties of Metals & Materials	25.0	51.4	8	2.0
Structure & Properties: Applications & Specifications of Metal & Materials Selection	37.5	65.3	8	1.6
Processing: Heat Treatments	50.0	61.1	6	0.7
Processing: Surface Modification	50.0	58.3	4	0.8
Processing: Forming & Fabrication	42.9	66.7	7	1.1
Performance: Material Testing	16.7	57.4	6	1.1
Performance: Material Degradation	33.3	48.1	6	1.7
Performance: Waste Process Control & Environmental Impact	100.0	100.0	1	0.0

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Mechanical	PE Examination:	Mechanical-HVAC and Refrigeration

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	344
No. Examinees Passing	2	268
Percent Examinees Passing	67%	78%

	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	66.7	76.4	1.9
Mechanical Systems & Materials: Principles	5	46.7	32.1	1.2
Mechanical Systems & Materials: Applications	3	33.3	59.4	0.9
Hydraulic & Fluids: Principles	3	66.7	73.6	0.8
Hydraulic & Fluids: Applications	4	66.7	73.5	1.0
Energy & Power Systems: Principles	3	66.7	63.5	0.9
Energy & Power Systems: Applications	3	44.4	54.7	0.9
HVAC & Refrigeration: Principles	4	100.0	88.0	0.8
HVAC & Refrigeration: Applications	3	77.8	71.0	0.8
Principles: Thermodynamics	3	33.3	42.6	0.8
Principles: Psychrometrics	6	44.4	49.6	1.2
Principles: Heat Transfer	5	60.0	48.7	1.3
Principles: Fluid Mechanics	3	44.4	69.3	0.8
Principles: Compressible Flow	1	33.3	46.8	0.5
Principles: Energy Balances	4	75.0	69.2	1.0
Applications: Equipment and Components	8	66.7	61.1	1.7
Applications: Systems	7	47.6	54.9	1.4
Applications: Supportive Knowledges	3	66.7	74.0	0.7

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Mechanical	PE Examination:	Mechanical-Thermal and Fluids Systems

	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	2	336		
No. Examinees Passing	1	241		
Percent Examinees Passing	50%	72%		
Basic Engineering Practice: Basic Engineering Practice	66.7	78.0	12	1.8
Mechanical Systems & Materials: Principles	30.0	39.4	5	1.2
Mechanical Systems & Materials: Applications	16.7	66.8	3	0.8
Hydraulic & Fluids: Principles	66.7	79.2	3	0.7
Hydraulic & Fluids: Applications	75.0	78.0	4	1.0
Energy & Power Systems: Principles	83.3	60.5	3	0.9
Energy & Power Systems: Applications	50.0	62.7	3	0.9
HVAC & Refrigeration: Principles	100.0	81.8	4	0.9
HVAC & Refrigeration: Applications	66.7	60.5	3	0.8
Principles: Materials Properties (density)	25.0	47.8	2	0.7
Principles: Fluid Mechanics	50.0	74.3	4	0.9
Principles: Heat Transfer Principles (convection)	75.0	59.1	4	1.1
Principles: Mass Balance Principles (evaporation)	50.0	43.9	3	0.8
Principles: Thermodynamics	50.0	43.8	4	1.1
Principles: Related Principles	50.0	68.2	1	0.5
Applications: Equipment	42.9	61.0	7	1.7
Applications: Systems	65.4	59.7	13	2.4
Applications: Codes & Standards	75.0	79.2	2	0.6

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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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, Lexington		
Major:	Mining/Mineral	PE Examination:	Mining and Mineral Processing

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	21	62		
No. Examinees Passing	16	55		
Percent Examinees Passing	76%	89%		
	Institution Average Percent Correct	ABET Comparator Average Percent Correct	Number of Exam Questions	ABET Comparator Standard Deviation ³
Exploration: Apply exploration methods & techniques	56.7	61.2	3	0.9
Exploration: Characterize site geologic & geotechnical conditions	45.0	55.7	3	0.8
Exploration: Estimate & characterize & evaluate resource reserves	52.5	55.7	4	0.9
Mine Planning & Operations: Plan & design & implement mining methods and layouts	64.4	71.5	8	1.6
Mine Planning & Operations: Plan & design & select and-or construct mine equipment and facilities and systems	65.0	66.7	13	1.8
Mine Planning & Operations: Evaluate & design ground control	65.0	70.0	7	1.2
Mine Planning & Operations: Operate & manage mines & systems	55.0	60.2	4	1.0
Mineral Processing: Perform laboratory & pilot testing and analysis	47.5	51.2	4	1.0
Mineral Processing: Design & evaluate process flow sheets	58.9	56.3	9	1.9
Mineral Processing: Plan & design & select and-or construct plant equipment and facilities and systems	50.7	53.6	7	1.2
Mineral Processing: Operate & manage plants & facilities	63.8	63.5	4	1.0
Environment & Reclamation: Characterize site & mining & process environment	45.0	47.1	4	0.9
Environment & Reclamation: Plan & design to mitigate exploration & mining & processing impacts	55.0	60.7	5	1.0
Environment & Reclamation: Operate & manage environmental & reclamation plan	53.3	55.7	3	0.8
Environment & Reclamation: Close & reclaim the site	77.5	76.2	2	0.6

1. 1 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.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.