

Examination: Principles and Practice of Engineering (PE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2017
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	PE Examination:	Agricultural and Biological Engineering

	Institution	ABET Comparator²		
No. Examinees Taking ¹	1	14		
No. Examinees Passing	0	9		
Percent Examinees Passing	0%	64%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation³
Common System Applications	20	70.0	71.1	2.4
Natural Resources and Ecology	15	33.3	64.8	2.4
Process Engineering	15	53.3	58.6	2.9
Facilities	15	33.3	61.4	2.1
Machines	15	40.0	60.0	2.4

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Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	PE Examination:	Civil-Water Resources and Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	23
No. Examinees Passing	1	18
Percent Examinees Passing	50%	78%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	78.3	0.7
Means and Methods	3	16.7	40.6	0.8
Soil Mechanics	6	58.3	52.2	0.9
Structural Mechanics	6	50.0	44.9	1.3
Hydraulics and Hydrology	7	85.7	85.7	0.7
Geometrics	3	83.3	81.2	0.8
Materials	6	75.0	81.2	0.9
Site Development	5	70.0	85.2	0.7
Analysis and Design	4	62.5	84.8	0.6
Hydraulics Closed Conduit	5	30.0	77.4	1.4
Hydraulics Open Channel	5	50.0	74.8	1.1
Hydrology	7	78.6	77.6	1.4
Groundwater and Wells	3	83.3	68.1	0.9
Wastewater Collection and Treatment	6	50.0	66.7	1.3
Water Quality	3	66.7	63.8	0.9
Drinking Water Distribution and Treatment	6	33.3	60.1	1.4
Engineering Economics Analysis	1	0.0	34.8	0.5

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Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	PE Examination:	Environmental

	Institution	ABET Comparator ²		
No. Examinees Taking ¹	1	1		
No. Examinees Passing	1	1		
Percent Examinees Passing	100%	100%		
	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Water: Basic Principles	3	66.7	66.7	0.0
Water: Wastewater	10	60.0	60.0	0.0
Water: Stormwater	4	75.0	75.0	0.0
Water: Potable Water	10	80.0	80.0	0.0
Water: Water Resources	5	60.0	60.0	0.0
Solid Waste: Basic Principles	3	100.0	100.0	0.0
Solid Waste: Municipal and Industrial Solid Waste	6	83.3	83.3	0.0
Solid Waste: Hazardous Waste	6	83.3	83.3	0.0
Solid Waste: Medical; Radioactive; Other Waste	3	66.7	66.7	0.0
Air: Basic Principles	8	87.5	87.5	0.0
Air: Pollution Control	15	53.3	53.3	0.0
Site Assessment and Remediation: Basic Principles	8	62.5	62.5	0.0
Site Assessment and Remediation: Remediation	4	75.0	75.0	0.0
Environmental Health and Safety: Environmental Health and Safety	8	75.0	75.0	0.0
Associated Engineering Principles: Associated Engineering Principles	7	85.7	85.7	0.0

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Name of Institution:	University of Kentucky, Lexington		
Major:	Chemical	PE Examination:	Chemical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	235
No. Examinees Passing	1	175
Percent Examinees Passing	100%	74%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Mass Energy Balances and Thermodynamics: Mass Balances	8	62.5	59.4	1.7
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	10	60.0	61.5	1.9
Heat Transfer: Mechanisms	7	71.4	69.4	1.5
Heat Transfer: Applications	6	33.3	60.5	1.5
Kinetics: Reaction Parameters	5	80.0	64.9	1.2
Kinetics: Reactors	4	75.0	44.3	1.0
Fluids: Mechanical-Energy Balance	10	50.0	62.2	2.1
Fluids: Flow and Pressure Measurement Techniques	3	66.7	68.1	0.8
Mass Transfer: Phase Equilibria	4	50.0	43.3	0.9
Mass Transfer: Continuous Vapor-Liquid Contactors	6	66.7	64.3	1.4
Mass Transfer: Miscellaneous Mass Transfer Processes	1	100.0	61.9	0.5
Plant Design and Operation: Economic Considerations	1	100.0	42.9	0.5
Plant Design and Operation: Design	8	87.5	67.3	1.5
Plant Design and Operation: Operation	3	33.3	66.7	0.9
Plant Design and Operation: Safety, Health; and Environment	4	75.0	52.5	1.0

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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	3	632
No. Examinees Passing	2	389
Percent Examinees Passing	67%	62%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	79.0	0.8
Means and Methods	3	55.6	52.1	0.8
Soil Mechanics	6	66.7	53.8	1.2
Structural Mechanics	6	50.0	54.9	1.4
Hydraulics and Hydrology	7	66.7	70.0	1.4
Geometrics	3	77.8	81.8	0.7
Materials	6	88.9	82.4	1.0
Site Development	5	93.3	82.0	0.9
Earthwork Construction and Layout	6	77.8	68.6	1.1
Estimating Quantities and Costs	6	55.6	65.7	1.2
Construction Operations and Methods	7	57.1	61.2	1.4
Scheduling	5	80.0	78.4	1.2
Material Quality Control and Production	6	50.0	53.0	1.3
Temporary Structures	7	61.9	54.7	1.5
Construction Health and Safety	3	33.3	49.0	0.9

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Name of Institution:	University of Kentucky, Lexington		
Major:	Civil	PE Examination:	Civil-Geotechnical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	374
No. Examinees Passing	2	252
Percent Examinees Passing	50%	67%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	81.3	75.5	0.8
Means and Methods	3	58.3	51.6	0.9
Soil Mechanics	6	50.0	66.2	1.2
Structural Mechanics	6	54.2	60.4	1.5
Hydraulics and Hydrology	7	71.4	73.9	1.4
Geometrics	3	66.7	81.8	0.7
Materials	6	91.7	88.0	0.9
Site Development	5	90.0	83.2	0.9
Site Characterization	5	90.0	85.2	0.8
Soil Mechanics; Laboratory Testing; and Analysis	5	65.0	57.9	1.2
Field Materials Testing; Methods; and Safety	3	83.3	77.5	0.7
Earthquake Engineering and Dynamic Loads	2	25.0	62.8	0.6
Earth Structures	4	56.3	73.1	1.0
Groundwater and Seepage	3	58.3	69.0	0.8
Problematic Soil and Rock Conditions	3	83.3	77.5	0.7
Earth Retaining Structures (ASD or LRFD)	5	45.0	50.5	1.2
Shallow Foundations (ASD or LRFD)	5	80.0	68.4	1.3
Deep Foundations (ASD or LRFD)	5	65.0	64.1	1.3

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Name of Institution:		University of Kentucky, Lexington	
Major:	Civil	PE Examination:	Civil-Structural

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	1,147
No. Examinees Passing	3	787
Percent Examinees Passing	100%	69%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	74.5	0.8
Means and Methods	3	88.9	72.2	0.7
Soil Mechanics	6	66.7	60.1	1.1
Structural Mechanics	6	94.4	80.8	1.1
Hydraulics and Hydrology	7	90.5	74.1	1.3
Geometrics	3	100.0	85.4	0.7
Materials	6	100.0	85.0	0.9
Site Development	5	93.3	84.0	0.8
Analysis of Structures: Loads and load applications	4	75.0	45.8	0.9
Analysis of Structures: Forces and load effects	10	86.7	76.2	1.6
Design and Details of Structures: Materials and material properties	5	80.0	67.3	1.0
Design and Details of Structures: Component design and detailing	15	75.6	54.5	2.5
Codes and Construction: Codes; standards; and guidance documents	4	66.7	48.1	1.1
Codes and Construction: Temporary structures and other topics	2	66.7	47.1	0.7

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Name of Institution:		University of Kentucky, Lexington	
Major:	Civil	PE Examination:	Civil-Transportation

	Institution	ABET Comparator ²
No. Examinees Taking ¹	13	1,555
No. Examinees Passing	6	1,083
Percent Examinees Passing	46%	70%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	65.4	71.8	0.8
Means and Methods	3	35.9	47.7	0.8
Soil Mechanics	6	42.3	51.3	1.1
Structural Mechanics	6	48.7	51.1	1.4
Hydraulics and Hydrology	7	57.1	71.1	1.4
Geometrics	3	79.5	88.9	0.6
Materials	6	62.8	79.1	1.1
Site Development	5	75.4	81.4	0.9
Traffic Engineering (Capacity Analysis and Transportation Planning)	11	62.9	68.2	1.9
Horizontal Design	4	67.3	66.5	1.0
Vertical Design	4	57.7	66.6	1.1
Intersection Geometry	4	51.9	61.5	1.0
Roadside and Cross Section Design	4	61.5	66.7	1.0
Signal Design	3	71.8	81.9	0.7
Traffic Control Design	3	71.8	76.3	0.9
Geotechnical and Pavement	4	61.5	58.6	1.0
Drainage	2	50.0	56.1	0.7
Alternatives Analysis	1	76.9	73.3	0.4

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Name of Institution:		University of Kentucky, Lexington	
Major:	Civil	PE Examination:	Civil-Water Resources and Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	9	1,214
No. Examinees Passing	8	859
Percent Examinees Passing	89%	71%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	83.3	71.0	0.9
Means and Methods	3	37.0	47.3	0.8
Soil Mechanics	6	55.6	52.5	1.1
Structural Mechanics	6	59.3	51.0	1.3
Hydraulics and Hydrology	7	84.1	78.1	1.2
Geometrics	3	96.3	82.6	0.7
Materials	6	77.8	81.2	1.0
Site Development	5	91.1	81.8	0.9
Analysis and Design	4	80.6	77.2	0.9
Hydraulics Closed Conduit	5	73.3	69.4	1.3
Hydraulics Open Channel	5	75.6	68.1	1.2
Hydrology	7	74.6	70.2	1.4
Groundwater and Wells	3	55.6	59.4	0.9
Wastewater Collection and Treatment	6	61.1	58.3	1.4
Water Quality	3	74.1	69.6	0.8
Drinking Water Distribution and Treatment	6	59.3	57.8	1.2
Engineering Economics Analysis	1	33.3	48.4	0.5

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Major:	Civil	PE Examination:	Environmental

	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	1	47				
No. Examinees Passing	1	36				
Percent Examinees Passing	100%	77%				
Water: Basic Principles	33.3	68.8	3	33.3	68.8	0.7
Water: Wastewater	90.0	73.0	10	90.0	73.0	1.4
Water: Stormwater	75.0	73.4	4	75.0	73.4	0.8
Water: Potable Water	80.0	77.7	10	80.0	77.7	1.7
Water: Water Resources	40.0	59.6	5	40.0	59.6	1.2
Solid Waste: Basic Principles	66.7	72.3	3	66.7	72.3	0.8
Solid Waste: Municipal and Industrial Solid Waste	83.3	81.9	6	83.3	81.9	1.2
Solid Waste: Hazardous Waste	50.0	58.2	6	50.0	58.2	1.4
Solid Waste: Medical; Radioactive; Other Waste	0.0	64.5	3	0.0	64.5	1.0
Air: Basic Principles	75.0	68.9	8	75.0	68.9	1.4
Air: Pollution Control	60.0	65.7	15	60.0	65.7	1.9
Site Assessment and Remediation: Basic Principles	50.0	67.0	8	50.0	67.0	1.3
Site Assessment and Remediation: Remediation	75.0	86.7	4	75.0	86.7	0.8
Environmental Health and Safety: Environmental Health and Safety	50.0	68.6	8	50.0	68.6	1.5
Associated Engineering Principles: Associated Engineering Principles	71.4	70.5	7	71.4	70.5	1.2

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Name of Institution:	University of Kentucky, Lexington		
Major:	Computer	PE Examination:	Electrical and Computer: Power

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	8
No. Examinees Passing	1	8
Percent Examinees Passing	100%	100%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Power Engineering: Measurement & Instrumentation	6	50.0	56.3	0.9
General Power Engineering: Special Applications	8	75.0	81.3	1.2
General Power Engineering: Codes & Standards	10	70.0	72.5	1.6
Circuit Analysis: Analysis	9	66.7	80.6	1.6
Circuit Analysis: Devices & Power Electronic Circuits	7	71.4	71.4	0.9
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	80.0	60.0	1.2
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	66.7	87.5	0.8
Transmissions & Distribution: System Analysis	10	40.0	71.3	1.7
Transmissions & Distribution: Power System Performance	6	83.3	68.8	1.1
Transmissions & Distribution: Protection	8	75.0	78.1	1.5

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Name of Institution:	University of Kentucky, Lexington		
Major:	Electrical	PE Examination:	Electrical and Computer: Power

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	730
No. Examinees Passing	3	469
Percent Examinees Passing	50%	64%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
General Power Engineering: Measurement & Instrumentation	6	47.2	62.5	1.2
General Power Engineering: Special Applications	8	60.4	65.3	1.6
General Power Engineering: Codes & Standards	10	66.7	69.2	1.7
Circuit Analysis: Analysis	9	61.1	66.3	2.0
Circuit Analysis: Devices & Power Electronic Circuits	7	54.8	58.9	1.2
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	60.0	59.0	1.5
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	75.0	77.5	1.2
Transmissions & Distribution: System Analysis	10	55.0	62.6	1.8
Transmissions & Distribution: Power System Performance	6	66.7	66.5	1.1
Transmissions & Distribution: Protection	8	68.8	64.8	1.8

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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, 2017
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mechanical	PE Examination:	Civil-Construction

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	20
No. Examinees Passing	0	14
Percent Examinees Passing	0%	70%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	75.0	80.0	0.8
Means and Methods	3	33.3	51.7	0.9
Soil Mechanics	6	66.7	53.3	0.9
Structural Mechanics	6	16.7	50.0	1.2
Hydraulics and Hydrology	7	57.1	65.7	1.3
Geometrics	3	66.7	73.3	0.8
Materials	6	83.3	82.5	0.9
Site Development	5	80.0	78.0	0.9
Earthwork Construction and Layout	6	66.7	68.3	1.3
Estimating Quantities and Costs	6	83.3	65.8	1.1
Construction Operations and Methods	7	42.9	69.3	1.4
Scheduling	5	100.0	80.0	1.4
Material Quality Control and Production	6	66.7	53.3	1.3
Temporary Structures	7	42.9	56.4	1.6
Construction Health and Safety	3	33.3	53.3	0.9

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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, 2017
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	5	394
No. Examinees Passing	2	305
Percent Examinees Passing	40%	77%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	4	55.0	77.8	0.9
Principles: Thermodynamics	4	65.0	82.2	0.9
Principles: Psychrometrics (e.g.; sea level; 5000-ft elevation)	8	65.0	69.2	1.5
Principles: Heat Transfer	7	37.1	62.5	1.5
Principles: Fluid Mechanics	4	60.0	66.4	0.9
Principles: Energy and Mass Balances	5	76.0	91.8	0.8
Applications: Heating and Cooling Loads	8	70.0	81.7	1.2
Applications: Equipment and Components	18	65.6	82.6	2.6
Applications: Systems and Components	18	64.4	79.0	2.8
Applications: Supportive Knowledge	4	55.0	76.3	0.9

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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, 2017
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mechanical	PE Examination:	Mechanical: Machine Design and Materials

	Institution	ABET Comparator²
No. Examinees Taking ¹	1	361
No. Examinees Passing	1	272
Percent Examinees Passing	100%	75%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation³
Principles: Basic Engineering Practice	9	77.8	77.8	1.5
Principles: Engineering Science and Mechanics	10	70.0	71.4	1.9
Principles: Material Properties	8	75.0	81.2	1.3
Principles: Strength of Materials	10	100.0	76.8	1.7
Principles: Vibration	3	66.7	80.3	0.7
Applications: Mechanical Components	18	55.6	64.7	3.2
Applications: Joints and Fasteners	12	83.3	68.0	2.2
Applications: Supportive Knowledge	10	60.0	66.3	1.7

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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, 2017
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
No. Examinees Taking ¹	2	420
No. Examinees Passing	1	292
Percent Examinees Passing	50%	70%

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Principles: Basic Engineering Practice	6	58.3	69.8	1.2
Principles: Fluid Mechanics	6	66.7	65.2	1.3
Principles: Heat Transfer Principles (e.g.; convection; conduction; radiation)	6	50.0	77.3	1.3
Principles: Mass Balance Principles (e.g.; evaporation; dehumidification; mixing)	4	25.0	61.1	1.1
Principles: Thermodynamics	6	58.3	64.9	1.5
Principles: Supportive Knowledge	4	75.0	79.1	0.9
Hydraulic and Fluid Applications: Hydraulic and Fluid Equipment	15	53.3	61.6	2.8
Hydraulic and Fluid Applications: Distribution Systems (e.g.; pipe flow)	9	55.6	74.9	1.6
Energy and Power System Applications: Energy and Power Equipment	8	62.5	71.4	1.6
Energy and Power System Applications: Cooling and Heating (e.g.; capacity; loads; cycles)	6	33.3	63.7	1.6
Energy and Power System Applications: Energy Recovery (e.g.; waste heat; storage)	5	70.0	64.3	1.3
Energy and Power System Applications: Combined Cycles (e.g.; components; efficiency)	5	40.0	59.8	1.4

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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, 2017
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Name of Institution:	University of Kentucky, Lexington		
Major:	Mining/Mineral	PE Examination:	Civil-Water Resources and Environmental

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

	Number of Exam Questions	Institution Average Percent Correct	ABET Comparator Average Percent Correct	ABET Comparator Standard Deviation ³
Project Planning	4	100.0	100.0	0.0
Means and Methods	3	66.7	66.7	0.0
Soil Mechanics	6	16.7	16.7	0.0
Structural Mechanics	6	0.0	0.0	0.0
Hydraulics and Hydrology	7	100.0	100.0	0.0
Geometrics	3	100.0	100.0	0.0
Materials	6	66.7	66.7	0.0
Site Development	5	60.0	60.0	0.0
Analysis and Design	4	100.0	100.0	0.0
Hydraulics Closed Conduit	5	60.0	60.0	0.0
Hydraulics Open Channel	5	40.0	40.0	0.0
Hydrology	7	71.4	71.4	0.0
Groundwater and Wells	3	33.3	33.3	0.0
Wastewater Collection and Treatment	6	66.7	66.7	0.0
Water Quality	3	100.0	100.0	0.0
Drinking Water Distribution and Treatment	6	50.0	50.0	0.0
Engineering Economics Analysis	1	100.0	100.0	0.0

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