

NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Agricultural**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Construction**

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	9	4		
Examinees Passing	1	4	2		
Examinees Passing %	100	44	50		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Construction	8	50	61	1.1	63
Geotechnical	8	88	78	1.6	81
Structural	8	88	68	1.1	78
Transportation	8	75	57	1.3	66
Water Resources & Environmental	8	88	81	1.1	84
PM Subject					
Earthwork Construction & Layout	4	50	42	0.5	44
Estimating Quantities & Costs	7	86	49	1.7	43
Construction Operations & Methods	6	50	54	1.2	54
Scheduling	7	86	59	1.3	57
Material Quality Control & Production	4	50	64	1.2	63
Temporary Structures	5	20	44	1.1	40
Worker - Health & Safety & Environment	3	67	70	1.1	83
Other Topics	4	75	64	0.9	81

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 PE - Environmental
Board Code: Major	71 Agricultural		

	*Institution	National	Carnegie Comparator
Examinees Taking	1	4	3
Examinees Passing	1	4	3
Examinees Passing %	100	100	100
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	50	69	0.5	67
Water: Wastewater	10	60	83	1.7	77
Water: Stormwater	4	50	50	0.0	50
Water: Potable Water	10	30	55	2.4	47
Water: Water Resources	4	100	75	0.8	75
Solid Waste: Basic Principles	3	100	83	0.6	89
Solid Waste: Municipal and Industrial Solid Waste	6	33	58	1.3	50
Solid Waste: Hazardous Waste	6	50	71	1.0	67
Solid Waste: Medical; Radioactive; Other Waste	3	67	75	0.5	78
Air: Basic Principles	7	57	64	0.6	62
Air: Pollution Control	16	75	80	2.2	81
Site Assessment and Remediation: Basic Principles	5	60	55	0.5	53
Site Assessment and Remediation: Site Assessment	3	33	67	0.8	67
Site Assessment and Remediation: Remediation	4	50	56	1.0	50
Environmental Health and Safety	8	75	84	1.0	79
Associated Engineering Principles	7	100	89	1.0	86

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 PE - Civil - Water Resources and Environmental
Board Code: Major	71 Agricultural		

	*Institution	National	Carnegie Comparator
Examinees Taking	1	25	6
Examinees Passing	0	18	3
Examinees Passing %	0	72	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	38	61	1.2	58
Geotechnical	8	63	72	1.5	65
Structural	8	50	71	1.4	63
Transportation	8	38	60	1.3	50
Water Resources & Environmental	8	75	83	1.2	77

PM Subject

Hydraulics -- Closed Conduit	6	83	65	1.1	58
Hydraulics -- Open Channel	6	33	67	1.2	67
Hydrology	6	100	77	0.8	81
Groundwater and Well Fields	3	67	67	0.7	56
Wastewater Treatment	6	33	63	1.2	53
Water Quality	6	50	59	1.6	47
Water Treatment	6	83	77	1.0	78
Engineering Economics	1	0	48	0.5	67

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Graduates	Engineering		
Subject Matter Report by Major and PM Examination			
Board Code:	71	Institution:	University of Kentucky, Lexington
Major	Chemical	School Code:	7101
		PM Exam	PE - Chemical

	*Institution	National		Carnegie Comparator
Examinees Taking	2	192		62
Examinees Passing	2	133		46
Examinees Passing %	100	69		74

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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Subject

Mass Energy Balances and Thermodynamics: Mass Balances	8	88	70	1.9	73
Mass Energy Balances and Thermodynamics: Energy Balances and Thermodynamics	10	90	69	1.9	74
Heat Transfer: Mechanisms	7	36	65	1.5	63
Heat Transfer: Applications	6	92	66	1.4	70
Kinetics: Reaction Parameters	5	50	60	1.2	65
Kinetics: Reactors	4	63	68	1.0	69
Fluids: Mechanical-Energy Balance	10	55	56	2.2	60
Fluids: Flow and Pressure Measurement Techniques	3	83	72	0.9	73
Mass Transfer: Phase Equilibria	4	50	58	1.2	58
Mass Transfer: Continuous Vapor-Liquid Contactors	6	83	54	1.5	59
Mass Transfer: Miscellaneous Mass Transfer Processes	1	100	85	0.4	82
Plant Design and Operation: Economic Considerations	1	100	59	0.5	68
Plant Design and Operation: Design	8	50	59	1.7	63
Plant Design and Operation: Operation	3	100	63	0.9	68
Plant Design and Operation: Safety; Health; and Environment	4	88	70	0.9	75

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Graduates **Engineering**
 Subject Matter Report by Major and PM Examination

Board Code: **71**
 Major **Civil**

Institution: **University of Kentucky, Lexington**
 School Code: **7101**
 PM Exam **PE - Civil - Construction**

	*Institution	National		Carnegie Comparator	
Examinees Taking	6	937		225	
Examinees Passing	4	479		117	
Examinees Passing %	67	51		52	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Construction	8	58	66	1.4	66
Geotechnical	8	81	77	1.4	78
Structural	8	79	77	1.3	78
Transportation	8	67	64	1.5	64
Water Resources & Environmental	8	73	72	1.6	73
PM Subject					
Earthwork Construction & Layout	4	50	56	0.9	57
Estimating Quantities & Costs	7	57	58	1.5	59
Construction Operations & Methods	6	50	58	1.3	58
Scheduling	7	74	73	1.4	74
Material Quality Control & Production	4	71	63	1.0	63
Temporary Structures	5	60	46	1.3	46
Worker - Health & Safety & Environment	3	83	78	0.7	80
Other Topics	4	54	62	1.1	63

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 PE - Environmental
Board Code: Major	71 Civil		

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	57	20		
Examinees Passing	0	27	10		
Examinees Passing %	0	47	50		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	75	67	0.9	63
Water: Wastewater	10	60	69	2.0	74
Water: Stormwater	4	25	53	1.1	49
Water: Potable Water	10	30	44	1.5	40
Water: Water Resources	4	25	56	1.0	51
Solid Waste: Basic Principles	3	67	69	0.9	72
Solid Waste: Municipal and Industrial Solid Waste	6	83	69	1.1	72
Solid Waste: Hazardous Waste	6	67	53	1.2	48
Solid Waste: Medical; Radioactive; Other Waste	3	0	64	0.8	67
Air: Basic Principles	7	57	45	1.3	41
Air: Pollution Control	16	69	62	2.2	63
Site Assessment and Remediation: Basic Principles	5	60	54	1.2	55
Site Assessment and Remediation: Site Assessment	3	33	49	0.8	45
Site Assessment and Remediation: Remediation	4	75	53	1.0	51
Environmental Health and Safety	8	63	71	1.4	74
Associated Engineering Principles	7	57	67	1.8	61

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 PE - Civil - Geotechnical
Board Code: Major	71 Civil		

	*Institution	National	Carnegie Comparator
Examinees Taking	1	440	101
Examinees Passing	0	253	71
Examinees Passing %	0	58	70

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	63	65	1.6	70
Geotechnical	8	75	82	1.3	85
Structural	8	50	79	1.4	83
Transportation	8	25	65	1.5	68
Water Resources & Environmental	8	63	76	1.6	78

PM Subject

Subsurface Exploration & Sampling	3	67	73	0.9	80
Engineering Properties of Soils & Materials	5	100	69	1.2	75
Soil Mechanics Analysis	5	80	73	1.1	75
Earthquake Engineering	2	50	59	0.7	65
Earth Structures	4	50	64	1.0	70
Shallow Foundations	6	17	58	1.3	63
Earth Retaining Structures Including Temporary Structures	7	57	66	1.4	67
Deep Foundations	4	75	61	1.0	65
Other Topics	4	75	73	1.0	78

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Civil	PM Exam	PE - Civil - Transportation

	*Institution	National	Carnegie Comparator
Examinees Taking	21	1,714	515
Examinees Passing	15	960	321
Examinees Passing %	71	56	62

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	63	62	1.4	62
Geotechnical	8	82	75	1.4	76
Structural	8	80	72	1.4	74
Transportation	8	79	67	1.5	70
Water Resources & Environmental	8	83	72	1.6	75

PM Subject

Traffic Analysis	9	85	81	1.7	84
Geometric Design	12	69	66	2.3	69
Transportation Planning	3	71	72	0.8	73
Traffic Safety	6	71	68	1.3	70
Other Topics	10	61	61	1.7	63

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Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	PE - Civil - Water Resources and
Major	Civil	Environmental	

	*Institution	National	Carnegie Comparator
Examinees Taking	9	935	257
Examinees Passing	7	583	173
Examinees Passing %	78	62	67

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	69	63	1.4	64
Geotechnical	8	75	76	1.3	79
Structural	8	72	73	1.3	76
Transportation	8	67	65	1.5	66
Water Resources & Environmental	8	83	82	1.4	84

PM Subject

Hydraulics -- Closed Conduit	6	54	60	1.3	60
Hydraulics -- Open Channel	6	57	64	1.3	65
Hydrology	6	69	69	1.4	71
Groundwater and Well Fields	3	78	71	0.9	74
Wastewater Treatment	6	70	61	1.4	64
Water Quality	6	57	62	1.3	63
Water Treatment	6	69	69	1.2	72
Engineering Economics	1	11	36	0.5	37

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Electrical	PM Exam	PE - Electrical and Computer: Power

	*Institution	National	Carnegie Comparator
Examinees Taking	8	954	278
Examinees Passing	4	456	147
Examinees Passing %	50	48	53

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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Subject

General Power Engineering: Measurement & Instrumentation	6	58	57	1.5	61
General Power Engineering: Special Applications	8	59	59	1.5	60
General Power Engineering: Codes & Standards	10	69	68	1.6	69
Circuit Analysis: Analysis	9	53	54	2.1	56
Circuit Analysis: Devices & Power Electronic Circuits	7	70	63	1.4	65
Rotating Machines & Electromagnetic Devices: Rotating Machines	10	61	60	1.9	62
Rotating Machines & Electromagnetic Devices: Electromagnetic Devices	6	65	60	1.4	61
Transmissions & Distribution: System Analysis	10	51	55	1.9	57
Transmissions & Distribution: Power System Performance	6	67	62	1.3	64
Transmissions & Distribution: Protection	8	52	53	1.5	54

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code: 71	Major Engr Physics/Engr Science	School Code:	7101
		PM Exam	PE - Civil - Structural

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	1	1		
Examinees Passing	1	1	1		
Examinees Passing %	100	100	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Construction	8	75	75	0.0	75
Geotechnical	8	100	100	0.0	100
Structural	8	88	88	0.0	88
Transportation	8	88	88	0.0	88
Water Resources & Environmental	8	100	100	0.0	100

PM Subject

Loadings	5	80	80	0.0	80
Analysis	5	60	60	0.0	60
Mechanics of Materials	5	100	100	0.0	100
Materials	5	80	80	0.0	80
Member Design	10	70	70	0.0	70
Design Criteria	5	40	40	0.0	40
Other Topics	5	80	80	0.0	80

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Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution: School Code: PM Exam	University of Kentucky, Lexington 7101 PE - Mechanical - HVAC and Refrigeration
Board Code: Major	71 Mechanical		

	*Institution	National	Carnegie Comparator		
Examinees Taking	1	472	131		
Examinees Passing	1	342	98		
Examinees Passing %	100	72	75		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Basic Engineering Practice	12	75	69	1.9	71
Mechanical Systems & Materials: Principles	5	40	55	1.1	57
Mechanical Systems & Materials: Applications	3	0	63	0.9	64
Hydraulics & Fluids: Principles	3	33	72	0.8	78
Hydraulics & Fluids: Applications	4	50	64	1.1	63
Energy & Power Systems: Principles	3	33	68	0.8	68
Energy & Power Systems: Applications	3	67	70	0.8	70
HVAC & Refrigeration: Principles	4	100	68	1.1	67
HVAC & Refrigeration: Applications	3	100	80	0.8	82

PM Subject

Principles: Thermodynamics	3	0	34	0.7	33
Principles: Psychrometrics	6	67	60	1.5	62
Principles: Heat Transfer	5	20	44	1.2	45
Principles: Fluid Mechanics	3	0	48	0.8	49
Principles: Compressible Flow	1	0	42	0.5	44
Principles: Energy Balances	4	100	83	1.0	82
Applications: Equipment and Components	8	75	67	1.6	68
Applications: Systems	7	71	63	1.5	65
Applications: Supportive Knowledges	3	100	70	0.8	74

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Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	PE - Mechanical - Mechanical Systems
Major	Mechanical	and Materials	

	*Institution	National	Carnegie Comparator
Examinees Taking	5	436	120
Examinees Passing	2	280	85
Examinees Passing %	40	64	71

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Basic Engineering Practice	12	62	72	1.7	75
Mechanical Systems & Materials: Principles	5	56	65	1.1	67
Mechanical Systems & Materials: Applications	3	73	78	0.7	82
Hydraulics & Fluids: Principles	3	47	73	0.9	76
Hydraulics & Fluids: Applications	4	65	61	1.2	67
Energy & Power Systems: Principles	3	53	65	0.8	68
Energy & Power Systems: Applications	3	60	62	0.9	66
HVAC & Refrigeration: Principles	4	15	58	1.2	59
HVAC & Refrigeration: Applications	3	60	53	1.0	57

PM Subject

Principles: Statics (free-body diagrams)	6	57	75	1.3	77
Principles: Kinematics (linear & rotational motion)	3	60	60	0.9	61
Principles: Dynamics (particle & rigid body)	4	55	62	1.1	65
Principles: Materials Properties (physical)	4	50	70	1.1	71
Principles: Strength of Materials (stress & strain)	7	43	56	1.4	57
Applications: Mechanical Components	4	70	64	1.1	68
Applications: Joints & Fasteners	4	40	52	1.1	54
Applications: Vibration & Dynamic Analysis	4	40	48	1.2	50
Applications: Materials & Process	4	40	51	1.1	53

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Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	PE - Mechanical - Thermal and Fluids
Major	Mechanical	Systems	

	*Institution	National	Carnegie Comparator
Examinees Taking	4	458	119
Examinees Passing	2	282	75
Examinees Passing %	50	62	63

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Basic Engineering Practice	12	81	69	1.9	71
Mechanical Systems & Materials: Principles	5	55	59	1.2	58
Mechanical Systems & Materials: Applications	3	58	65	0.8	67
Hydraulics & Fluids: Principles	3	67	79	0.7	78
Hydraulics & Fluids: Applications	4	63	70	1.1	70
Energy & Power Systems: Principles	3	58	70	0.9	72
Energy & Power Systems: Applications	3	75	75	0.8	75
HVAC & Refrigeration: Principles	4	63	63	1.2	64
HVAC & Refrigeration: Applications	3	67	63	0.9	63

PM Subject

Principles: Materials Properties (density)	2	50	50	0.7	50
Principles: Fluid Mechanics	4	63	72	1.0	74
Principles: Heat Transfer Principles (convection)	4	75	56	1.1	54
Principles: Mass Balance Principles (evaporation)	3	50	47	0.8	47
Principles: Thermodynamics	4	50	54	1.1	54
Principles: Related Principles	1	0	18	0.4	17
Applications: Equipment	7	61	63	1.7	64
Applications: Systems	13	65	59	2.4	59
Applications: Codes & Standards	2	100	82	0.6	86

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** The standard deviation of the above is based on number of questions correct not percentage of questions correct.

*** Indicates schools in your Carnegie classification, see www.carnegiefoundation.org

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

Graduates Subject Matter Report by Major and PM Examination	Engineering	Institution:	University of Kentucky, Lexington
Board Code:	71	School Code:	7101
Major	Metallurgical	PM Exam	PE - Environmental

	*Institution	National	Carnegie Comparator
Examinees Taking	1	1	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0
	# Exam Questions	Institution AVG % Correct	National AVG % Correct
		National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

Subject

Water: Basic Principles	4	50	50	0.0	50
Water: Wastewater	10	50	50	0.0	50
Water: Stormwater	4	50	50	0.0	50
Water: Potable Water	10	30	30	0.0	30
Water: Water Resources	4	50	50	0.0	50
Solid Waste: Basic Principles	3	100	100	0.0	100
Solid Waste: Municipal and Industrial Solid Waste	6	67	67	0.0	67
Solid Waste: Hazardous Waste	6	50	50	0.0	50
Solid Waste: Medical; Radioactive; Other Waste	3	67	67	0.0	67
Air: Basic Principles	7	14	14	0.0	14
Air: Pollution Control	16	69	69	0.0	69
Site Assessment and Remediation: Basic Principles	5	20	20	0.0	20
Site Assessment and Remediation: Site Assessment	3	100	100	0.0	100
Site Assessment and Remediation: Remediation	4	25	25	0.0	25
Environmental Health and Safety	8	63	63	0.0	63
Associated Engineering Principles	7	57	57	0.0	57

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NCEES
Principles and Practice of Engineering Examination
 ABET - Accredited Programs

Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	PE - Civil - Water Resources and
Major	Mining/Mineral	Environmental	

	*Institution	National	Carnegie Comparator
Examinees Taking	1	3	1
Examinees Passing	0	2	0
Examinees Passing %	0	67	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Construction	8	75	63	1.0	75
Geotechnical	8	38	63	1.7	38
Structural	8	88	83	0.6	88
Transportation	8	75	71	1.5	75
Water Resources & Environmental	8	75	92	1.2	75

PM Subject

Hydraulics -- Closed Conduit	6	17	50	2.0	17
Hydraulics -- Open Channel	6	67	61	0.6	67
Hydrology	6	83	78	0.6	83
Groundwater and Well Fields	3	67	78	0.6	67
Wastewater Treatment	6	67	61	1.5	67
Water Quality	6	50	67	1.0	50
Water Treatment	6	33	72	2.1	33
Engineering Economics	1	0	33	0.6	0

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