

Supportive Knowledge For the PE Exam

Test Date: _____

Name: _____

		Confident	Knowledgeable	Need More Work
Electrical Terms				
1.	Current. <i>What is current? Do you understand the basic equations for electric DC circuits?</i>			
2.	Voltage. <i>What is voltage? Do you understand the basic equations for electric DC circuits?</i>			
3.	Resistance. <i>What is resistance? Do you understand the basic equations for electric DC circuits? How do you calculate equivalent resistance for resistors in series and in parallel?</i>			
4.	Power Factor. <i>What is power factor? When is it used?</i>			
5.	Power <i>What are the equations for power? How do you calculate mechanical horsepower for a fan and pump? How do you determine the motor horsepower and electricity usage?</i>			
6.				
Economics				
1.	Present Value <i>What is the present value? Can you convert annualized values and future values to a present value?</i>			
2.	Future Value <i>What is the future value? Can you convert annualized values and present values to a future value?</i>			
3.	Annualized Value <i>What is the annualized value? Can you convert future values and present values to an annualized value?</i>			
4.	Rate of Return <i>What is the rate of return? Can you calculate</i>			
5.	Resources <i>Do you have quick access to engineering economics tables?</i>			
6.				
Acoustics				
1.	NC Ratings <i>What is the NC rating?</i>			
2.	Sound Level at a Distance from a source <i>How do you determine the decibel level at a distance away from a point source? How does the equation change based on the surroundings?</i>			
3.	Equipment Ratings <i>How are sound levels reported for various pieces of equipment like silencers and chillers?</i>			
Resources				

1.	ASHRAE 15 <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
2.	ASHRAE 34 <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
3.	ASHRAE 55 <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
4.	ASHRAE 62.1 <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
5.	ASHRAE 90.1 <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
6.	NFPA 90A/90B <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
7.	NFPA 96 <i>Are you familiar with the resources contents and the purpose of the resource?</i>			
8.	NCEES HVAC & Refrigeration Sample Question <i>Have you completed the NCEES HVAC & Refrigeration Sample Exam? Do you understand how to complete each problem?</i>			
9.	MERM <i>Do you have quick access to the MERM during the test? Are you familiar with its contents? Do you have the most commonly used areas notated and tabbed?</i>			
10.	Engineering Unit Conversions <i>Do you have quick access to the Engineering unit conversions book? Are you familiar with its contents and how to use the book?</i>			