




NCEES provides all examinees who do not pass with a diagnostic report to help them identify the knowledge areas in which they need to improve before retaking the exam. The purpose of this report is to provide general information on their performance; it is not designed to be used for any other purpose.

Examinee diagnostic reports have been revised for the October 2010 exam administration. In the new report, the number of items in each knowledge area is shown as well as the examinee's performance in terms of number of correct items and percentage correct. There is also information showing the examinee's relative performance in each knowledge area when compared to the average of the passing examinees. The performance comparison chart is not shown to scale and simply indicates the relative performance to assist the examinee in preparing to retake the exam.

Please see the sample diagnostic report for the Fundamentals of Engineering—Electrical exam on the next page. In reviewing the report, here is how the examinee should interpret the results. (Colors shown are for illustrative purposes only. Actual reports are grayscale.)

 Knowledge areas 3, 6, 7, 8, and 21: I didn't do as well as the average passing examinee. Overall, I got around half of the questions right in these knowledge areas. These are areas I need to work on.

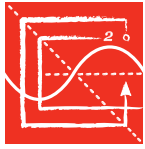
 Knowledge areas 1, 5, 9, 11, 16, 18, 19, 20, and 22: I seem to be pretty close to the average passing examinee in these areas. I should still review these knowledge areas prior to retaking the exam, but there are others that need more of my focus.

 Knowledge areas 2, 4, 10, 12, 13, 14, 15, and 17: The average passing examinee did much better than I did in these areas. I only got 24 of these items correct out of 67. These are areas I really need to work on.

My study priorities prior to retaking the exam are

1. Knowledge areas 2, 3, 4, 6, 7, 8, 10, 12, 13, 14, 15, 17, and 21—strong focus
2. Knowledge areas 1, 5, 9, 11, 16, 18, 19, 20 and 22—general review

For more information on the knowledge areas included in each discipline of the FE exam, download exam specifications at ncees.org/exams.



Fundamentals of Engineering - Electrical

					Your Performance Compared to Average of Passing Examinee
	Knowledge Area	Number of Items	Your Performance (No. Correct)	Your Performance (% Correct)	Average of Passing Examinees = You =
1	Mathematics	19	13	68	
2	Engineering Probability & Statistics	8	3	37	
3	Chemistry	11	6	54	
4	Computers	8	4	50	
5	Ethics & Business Practices	8	6	75	
6	Engineering Economics	10	5	50	
7	Engineering Mechanics (Statics)	8	4	50	
8	Engineering Mechanics (Dynamics)	5	2	40	
9	Strength of Materials	8	3	37	
10	Material Properties	8	1	12	
11	Fluid Mechanics	8	4	50	
12	Electricity & Magnetism	11	5	45	
13	Thermodynamics	8	3	37	
14	Circuits	10	3	30	
15	Power	8	3	37	
16	Electromagnetics	4	3	75	
17	Control Systems	6	2	33	
18	Communications	5	3	60	
19	Signal Processing	5	3	60	
20	Electronics	9	6	66	
21	Digital Systems	7	4	57	
22	Computer Systems	6	4	66	

- The purpose of this diagnostic report is to provide feedback about your exam results and to help focus your preparation for retaking the exam. It is neither intended nor designed to be used in determining the passing score.
- The last column represents your performance in a knowledge area compared to the average performance of all passing examinees. For each knowledge area, the portion of the bar between your performance (solid line) and the average performance of the passing examinees (dashed line) indicates the relative difference between your performance and the performance average of the examinees who passed.
- Performance in a knowledge area significantly below that of the average passing candidate contributed to your failing the exam. Substantial study of this material is recommended before retaking the exam. Performance in a knowledge area near or above that of the average passing candidate indicates your understanding may be improved by further study, thus improving your chances of passing the exam.