

Student Group	Quantitative	Elapsed Time of finishing			# of Tests
		Wiring Performance Test			
<u>Treatment #</u>		Elapsed time	Time2Success		
1		72	1:12:00	88.9	1
2		180	3:00:00	72.2	4
3		68	1:08:00	89.5	1
5		126	2:06:00	80.6	5
6		43	0:43:00	93.4	3
7		42	0:42:00	93.5	2
8		89	1:29:00	86.3	1
9		65	1:05:00	90.0	2
10		62	1:02:00	90.4	1
11		87	1:27:00	86.6	1
12		123	2:03:00	81.0	2
16		78	1:18:00	88.0	1
17		154	2:34:00	76.2	2
18		39	0:39:00	94.0	1
21		172	2:52:00	73.5	6
22		91	1:31:00	86.0	3
23		52	0:52:00	92.0	1
24		120	2:00:00	81.5	2
25		149	2:29:00	77.0	4
		Standard Deviation = 6.7%			Ttmt Group:

Student Group	Elapsed Time of finishing				# of Tests
	Wiring Performance Test				
	Elapsed time	Time2Success			
<u>Control #</u>					
1	98	1:38:00	84.9	1	
2	179	2:59:00	72.4	4	
5	71	1:11:00	89.0	3	
6	incomplete	overtime > 3Hrs		0.0	6
8	incomplete	overtime > 3Hrs		0.0	5
9	incomplete	overtime > 3Hrs		0.0	1
10	incomplete	overtime > 3Hrs		0.0	3
12		174	2:54:00	73.1	2
14	incomplete	overtime > 3Hrs		0.0	1
15	incomplete	overtime > 3Hrs		0.0	2
16		173	2:52:00	73.3	2
Standard Deviation = 21.9%					Ctl Group:

It is assumed that, due to the Doger's World Series game, many students failed to come to class this time, which is why participation was so low in the Control Group.

**LEGEND:**  unsuccessful--wired, but never got their circuit working  
 successfully got their circuit working

A majority of the students in the Control Group said they worked as Electricians, where proper wiring is critical to safety and reliability.

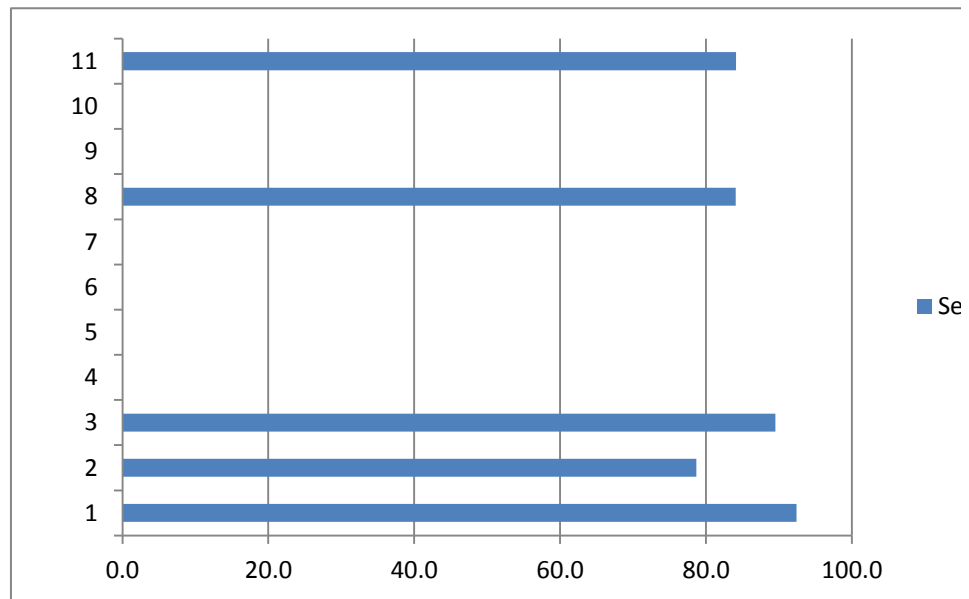
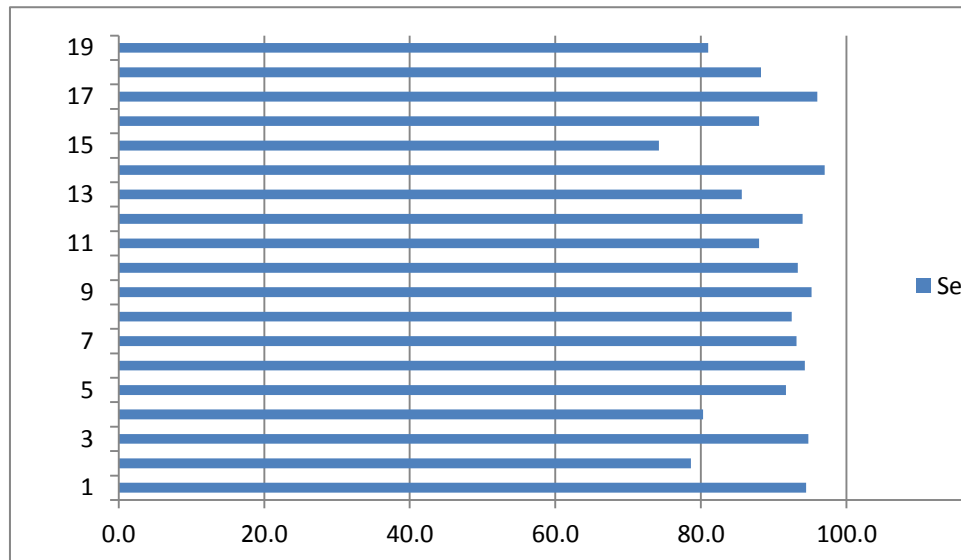
Performance Score %	Average Score %
100	94.4
85	78.6
100	94.8
80	80.3
90	91.7
95	94.3
100	93.1
95	92.5
100	95.2
100	93.3
95	88.0
100	94.0
95	85.6
100	97.0
75	74.2
90	88.0
100	96.0
95	88.2
85	81.0

Average = 89.5 %

Performance Score %	Average Score %
100	92.4
85	78.7
90	89.5
0	0.0
0	0.0
0	0.0
0	0.0
95	84.1
0	0.0
0	0.0
95	84.2

Average = 39.0 %

This top bar-chart represents the scores of all Treatment Group scores, from bottom to top, all successfully completing same circuit wiring test. This Treatment Group received the special LGM training.



This bottom bar-chart represents the scores of all Control Group scores, from bottom to top, five of whom successfully completing the same circuit wiring test.

The six other students failed to get their circuit wired and working in 3 hours time.

All these beginning ELE students received traditional electrical training.

Both the Groups were within 15% of the performance between Pre and Post test results, except that three in the Control Group actually seemed to score much lower on Post test.

