The GLM Procedure

Class Level Information		
Class	Levels	Values
time	2	AM PM
tech	3	1 2 3

Number of Observations Read	24
Number of Observations Used	24

The GLM Procedure

Dependent Variable: phos

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	158.0000000	31.6000000	14.22	<.0001
Error	18	40.0000000	2.2222222		
Corrected Total	23	198.0000000			

R-Square	Coeff Var	Root MSE	phos Mean
0.797980	3.205832	1.490712	46.50000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
time	1	130.6666667	130.6666667	58.80	<.0001
tech(time)	4	27.3333333	6.8333333	3.08	0.0429

Source	DF	Type III SS	Mean Square	F Value	Pr > F
time	1	130.6666667	130.6666667	58.80	<.0001
tech(time)	4	27.3333333	6.8333333	3.08	0.0429

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

time	phos LSMEAN	H0:LSMean1=LSMean2
		Pr > |t|
AM	44.1666667	<.0001
PM	48.8333333	

time	phos LSMEAN	95% Confidence Limits	
AM	44.166667	43.262574	45.070760
PM	48.833333	47.929240	49.737426

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

Least Squares Means for Effect time				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	-4.666667	-5.945202	-3.388131

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

tech	time	phos LSMEAN	LSMEAN Number
1	AM	43.2500000	1
2	AM	43.5000000	2
3	AM	45.7500000	3
1	PM	50.2500000	4
2	PM	48.2500000	5
3	PM	48.0000000	6

Least Squares Means for effect tech(time) Pr > |t| for H0: LSMean(i)=LSMean(j) Dependent Variable: phos						
i/j	1	2	3	4	5	6
1		0.9999	0.2176	<.0001	0.0019	0.0032
2	0.9999		0.3141	<.0001	0.0032	0.0052
3	0.2176	0.3141		0.0052	0.2176	0.3141
4	<.0001	<.0001	0.0052		0.4347	0.3141
5	0.0019	0.0032	0.2176	0.4347		0.9999
6	0.0032	0.0052	0.3141	0.3141	0.9999	

tech	time	phos LSMEAN	95% Confidence Limits	
1	AM	43.250000	41.684065	44.815935
2	AM	43.500000	41.934065	45.065935
3	AM	45.750000	44.184065	47.315935
1	PM	50.250000	48.684065	51.815935
2	PM	48.250000	46.684065	49.815935
3	PM	48.000000	46.434065	49.565935

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey

Least Squares Means for Effect tech(time)				
i	j	Difference Between Means	Simultaneous 95% Confidence Limits for LSMean(i)-LSMean(j)	
1	2	-0.250000	-3.599943	3.099943
1	3	-2.500000	-5.849943	0.849943
1	4	-7.000000	-10.349943	-3.650057
1	5	-5.000000	-8.349943	-1.650057
1	6	-4.750000	-8.099943	-1.400057
2	3	-2.250000	-5.599943	1.099943
2	4	-6.750000	-10.099943	-3.400057
2	5	-4.750000	-8.099943	-1.400057
2	6	-4.500000	-7.849943	-1.150057
3	4	-4.500000	-7.849943	-1.150057
3	5	-2.500000	-5.849943	0.849943
3	6	-2.250000	-5.599943	1.099943
4	5	2.000000	-1.349943	5.349943
4	6	2.250000	-1.099943	5.599943
5	6	0.250000	-3.099943	3.599943

The GLM Procedure

Dependent Variable: phos

Parameter	Estimate	Standard Error	t Value	Pr > |t|	95% Confidence Limits	
Time	-4.66666667	0.60858062	-7.67	<.0001	-5.94524710	-3.38808623
Tech 1 vs. 2 within Time=AM	-0.25000000	1.05409255	-0.24	0.8152	-2.46456628	1.96456628
Tech 1 vs. 3 within Time=AM	-2.50000000	1.05409255	-2.37	0.0291	-4.71456628	-0.28543372
Tech 2 vs. 3 within Time=AM	-2.25000000	1.05409255	-2.13	0.0468	-4.46456628	-0.03543372
Tech 1 vs. 2 within Time=PM	2.00000000	1.05409255	1.90	0.0739	-0.21456628	4.21456628
Tech 1 vs. 3 within Time=PM	2.25000000	1.05409255	2.13	0.0468	0.03543372	4.46456628
Tech 2 vs. 3 within Time=PM	0.25000000	1.05409255	0.24	0.8152	-1.96456628	2.46456628