附錄 E

『數位控制技術能力發展』各項職責之 SPSS 統計分析

----- ONEWAY -----

Variable VA=
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	69.1354	34.5677	3.9377	.0201
Within Groups	503	4415.6472	8.7786		
Total	505	4484.7826			

----- ONEWAY -----

Variable VA
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 2.0951 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

(*) Indicates significant differences which are shown in the lower triangle

Mean	GROUP	G G G r r r p p p 1 3 2
13.5361	Grp 1	
14.4667	Grp 3	
15.1579	Grp 2	*

----- ONEWAY -----

Variable VB
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	77.6633	38.8317	3.9198	.0205
Within Groups	503	4983.0481	9.9067		
Total	505	5060.7115			

----- ONEWAY -----

Variable VB
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 2.2256 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

(*) Indicates significant differences which are shown in the lower triangle

Mean	GROUP	G G G r r r p p p 1 3 2
13.7243	Grp 1	
14.4333	Grp 3	
15.6316	Grp 2	*

----- ONEWAY -----

Variable VC
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	79.5985	39.7993	3.9226	.0204
Within Groups	503	5103.4864	10.1461		
Total	505	5183.0850			

----- ONEWAY -----

Variable VC
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 2.2523 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

(*) Indicates significant differences which are shown in the lower triangle

		G G G r r r p p p 1 3 2
Mean	GROUP	
13.1291	Grp 1	
14.4333	Grp 3	*
14.5263	Grp 2	

----- ONEWAY -----

Variable VD
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	64.4640	32.2320	1.9791	.1393
Within Groups	501	8159.4090	16.2862		
Total	503	8223.8730			

----- ONEWAY -----

Variable VD
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 2.8536 * RANGE * SQRT(1/N(I) + 1/N(J))

with the following value(s) for RANGE: 2.78

- No two groups are significantly different at the .050 level

----- ONEWAY -----

Variable VE
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	443.8604	221.9302	2.9426	.0536
Within Groups	501	37784.6932	75.4185		
Total	503	38228.5536			

----- ONEWAY -----

Variable VE
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 6.1408 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

(*) Indicates significant differences which are shown in the lower triangle

		G G G r r r p p p	
		1 3 2	
Mean	GROUP		
41.1670	Grp 1		
43.0333	Grp 3		
45.6316	Grp 2	*	

----- ONEWAY -----

Variable VF
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	.2772	.1386	.0132	.9869
Within Groups	499	5224.7208	10.4704		
Total	501	5224.9980			

----- ONEWAY -----

Variable VF
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 2.2881 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

- No two groups are significantly different at the .050 level

----- ONEWAY -----

Variable VG
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	25.1347	12.5674	1.8728	.1548
Within Groups	500	3355.2709	6.7105		
Total	502	3380.4056			

----- ONEWAY -----

Variable VG
By Variable GROUP
Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 1.8317 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

- No two groups are significantly different at the .050 level

----- ONEWAY -----

Variable VH
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	.0935	.0468	.0099	.9901
Within Groups	499	2350.6635	4.7107		
Total	501	2350.7570			

----- ONEWAY -----

Variable VH
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 1.5347 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

- No two groups are significantly different at the .050 level

----- ONEWAY -----

Variable VI
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.

Between Groups	2	29.6878	14.8439	.9544	.3858
Within Groups	500	7776.8052	15.5536		
Total	502	7806.4930			

----- ONEWAY -----

Variable VI
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 2.7887 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

- No two groups are significantly different at the .050 level

----- ONEWAY -----

Variable VJ
By Variable GROUP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	2	9.4395	4.7198	1.3083	.2712
Within Groups	500	1803.8289	3.6077		
Total	502	1813.2684			

----- ONEWAY -----

Variable VJ
By Variable GROUP

Multiple Range Tests: LSD test with significance level .05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 1.3431 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2.78

- No two groups are significantly different at the .050 level