Experience in Software Testing

Case Processing Summary

	Experience in Software Testing	Cases			
		Valid		Missing	
		N	Percent	N	Percent
Grdaes With Type Hints	Beginner	58	100.0%	0	0.0%
	Intermediate	39	100.0%	0	0.0%
	Advanced	13	100.0%	0	0.0%
	Proficient	2	100.0%	0	0.0%

Case Processing Summary

	Experience in Software Testing	Cases	
		Total	
		N	Percent
Grdaes With Type Hints	Beginner	58	100.0%
	Intermediate	39	100.0%
	Advanced	13	100.0%
	Proficient	2	100.0%

Descriptives

	Experience in Software Testing			Statistic	Std. Error
Grdaes With Type Hints	Beginner	Mean		5.17	.635
		95% Confidence Interval for Mean	Lower Bound	3.90	
			Upper Bound	6.44	
		5% Trimmed Mean		4.86	
		Median		4.00	
		Variance		23.408	
		Std. Deviation		4.838	
		Minimum		0	
		Maximum		16	
		Range		16	
		Interquartile Range		6	
		Skewness		1.049	.314
		Kurtosis		-.047	.618
	Intermediate	Mean		6.05	.777
		95% Confidence Interval for Mean	Lower Bound	4.48	
			Upper Bound	7.62	
		5% Trimmed Mean		5.72	
		Median		5.00	
		Variance		23.524	
		Std. Deviation		4.850	

Descriptives

Experience in Software Testing			Statistic	Std. Error
	Minimum		0	
	Maximum		18	
	Range		18	
	Interquartile Range		8	
	Skewness		.885	.378
	Kurtosis		.035	.741
Advanced	Mean		10.23	1.321
	95% Confidence Interval for Mean	Lower Bound	7.35	
		Upper Bound	13.11	
	5% Trimmed Mean		10.37	
	Median		11.00	
	Variance		22.692	
	Std. Deviation		4.764	
	Minimum		2	
	Maximum		16	
	Range		14	
	Interquartile Range		9	
	Skewness		-.579	.616
	Kurtosis		-.768	1.191
Proficient	Mean		4.50	2.500
	95% Confidence Interval for Mean	Lower Bound	-27.27	
		Upper Bound	36.27	
	5% Trimmed Mean		.	
	Median		4.50	
	Variance		12.500	
	Std. Deviation		3.536	
	Minimum		2	
	Maximum		7	
	Range		5	
	Interquartile Range		.	
	Skewness		.	.
	Kurtosis		.	.

Extreme Values[c]

	Experience in Software Testing			Case Number	Value
Grdaes With Type Hints	Beginner	Highest	1	3	16
			2	31	16
			3	33	16
			4	16	15
			5	80	15
		Lowest	1	75	0
			2	56	0
			3	46	0
			4	45	0
			5	107	1[a]
	Intermediate	Highest	1	26	18
			2	30	18
			3	104	14
			4	35	13
			5	15	12[b]
		Lowest	1	29	0
			2	14	0
			3	112	1
			4	105	1
			5	42	1[a]
	Advanced	Highest	1	4	16
			2	49	16
			3	5	15
			4	53	14
			5	77	12
		Lowest	1	64	2
			2	47	3
			3	99	4
			4	78	8
			5	95	10
	Proficient	Highest	1	20	7
		Lowest	1	17	2

a. Only a partial list of cases with the value 1 are shown in the table of lower extremes.

b. Only a partial list of cases with the value 12 are shown in the table of upper extremes.

c. The requested number of extreme values exceeds the number of data points. A smaller number of extremes is displayed.

Tests of Normality

	Experience in Software Testing	Kolmogorov-Smirnov[a]			Shapiro-...
		Statistic	df	Sig.	Statistic
Grdaes With Type Hints	Beginner	.169	58	<.001	.846
	Intermediate	.146	39	.036	.907
	Advanced	.180	13	.200*	.908
	Proficient	.260	2	.	

Tests of Normality

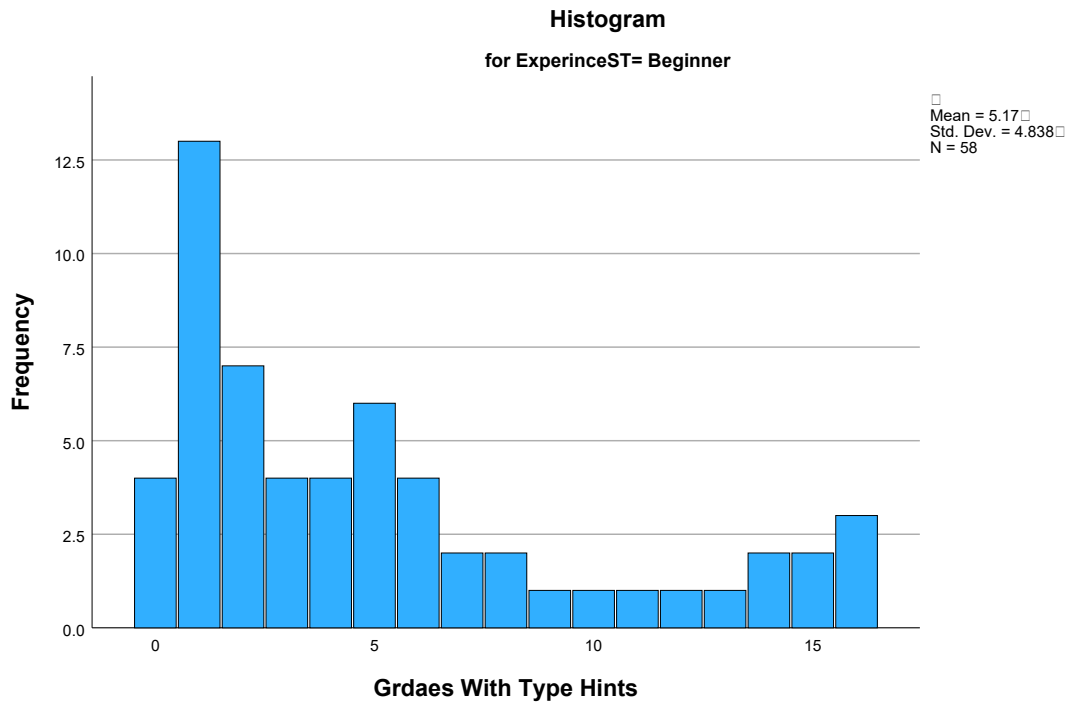
	Experience in Software Testing	Shapiro-Wilk	
		df	Sig.
Grdaes With Type Hints	Beginner	58	<.001
	Intermediate	39	.003
	Advanced	13	.170
	Proficient		

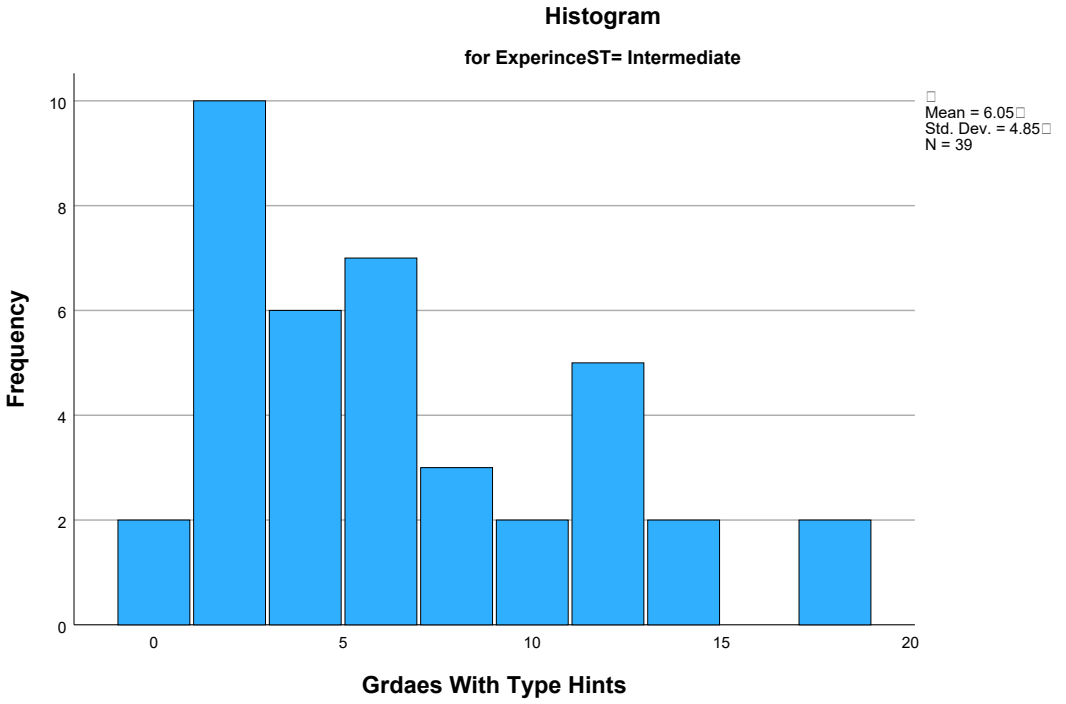
*. This is a lower bound of the true significance.

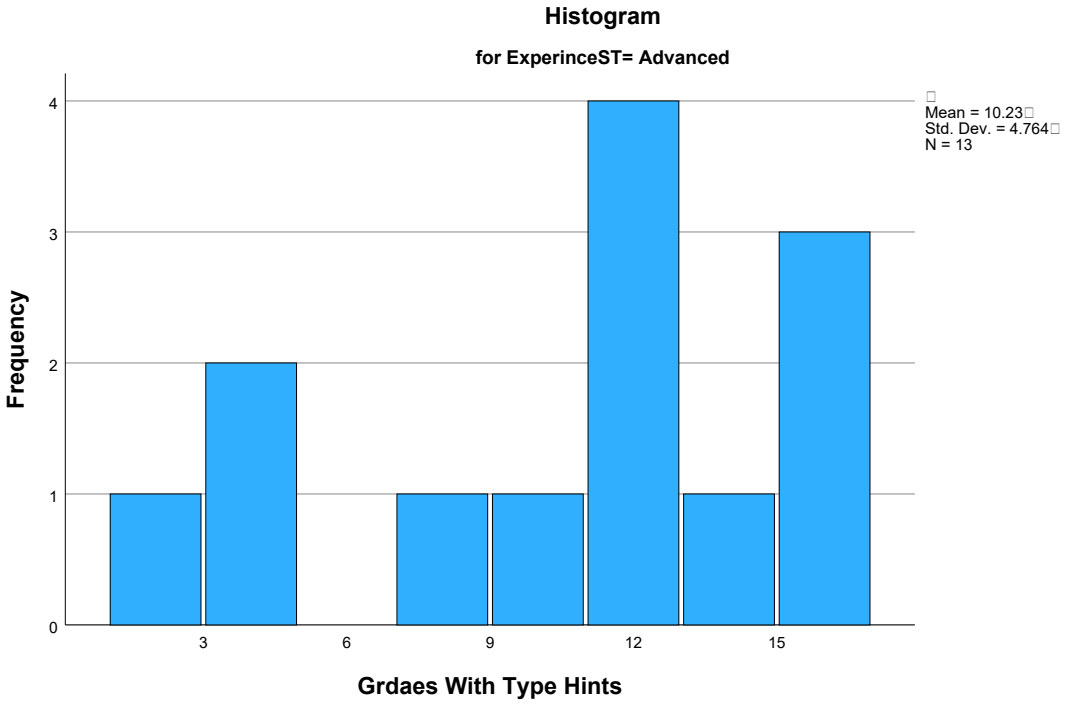
a. Lilliefors Significance Correction

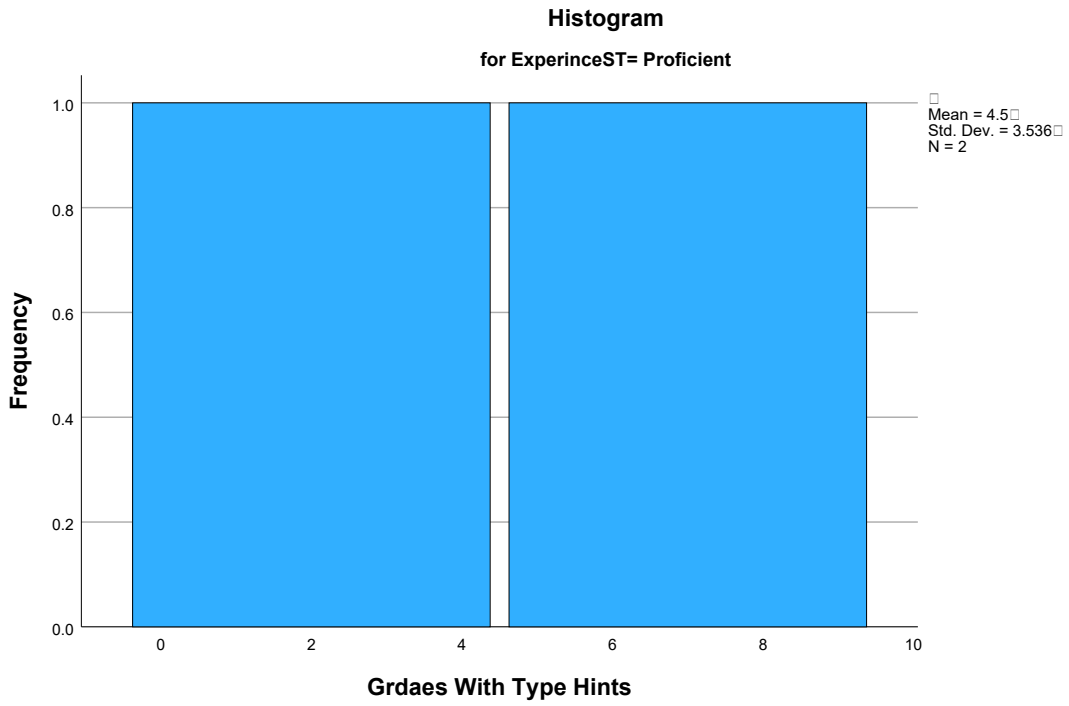
Grdaes With Type Hints

Histograms

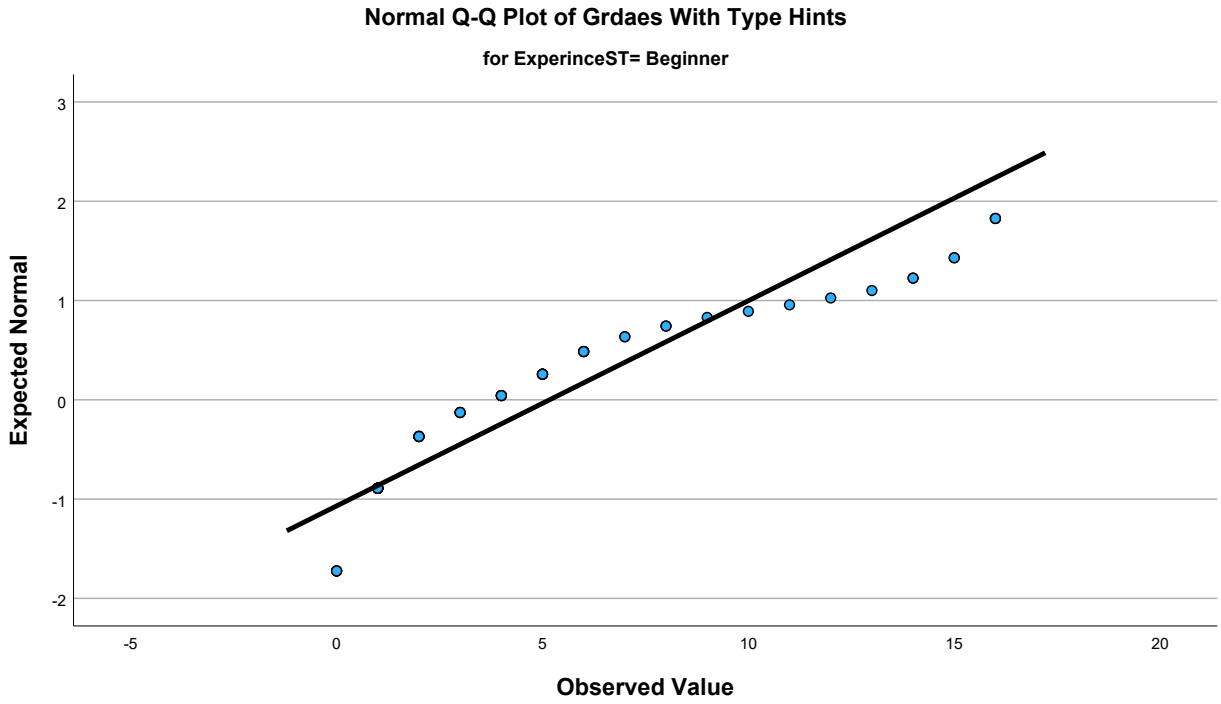


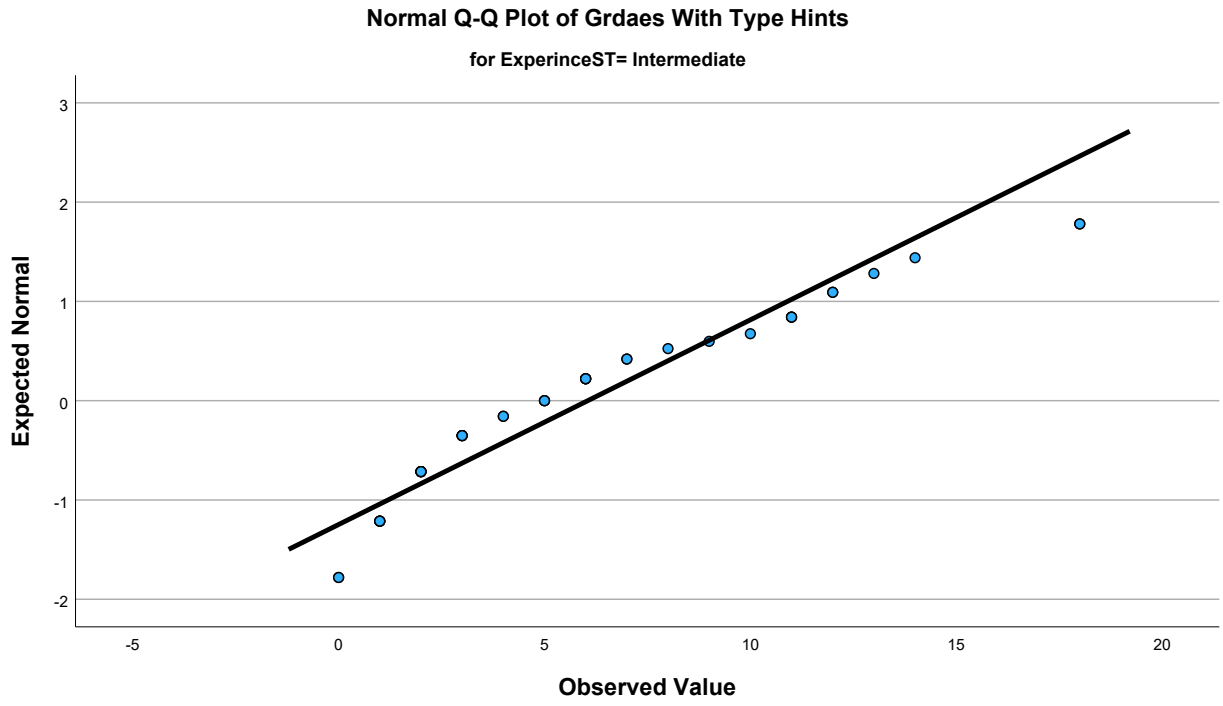

Histogram
for ExperinceST= Intermediate
Mean = 6.05
Std. Dev. = 4.85
N = 39
Frequency
Grdaes With Type Hints

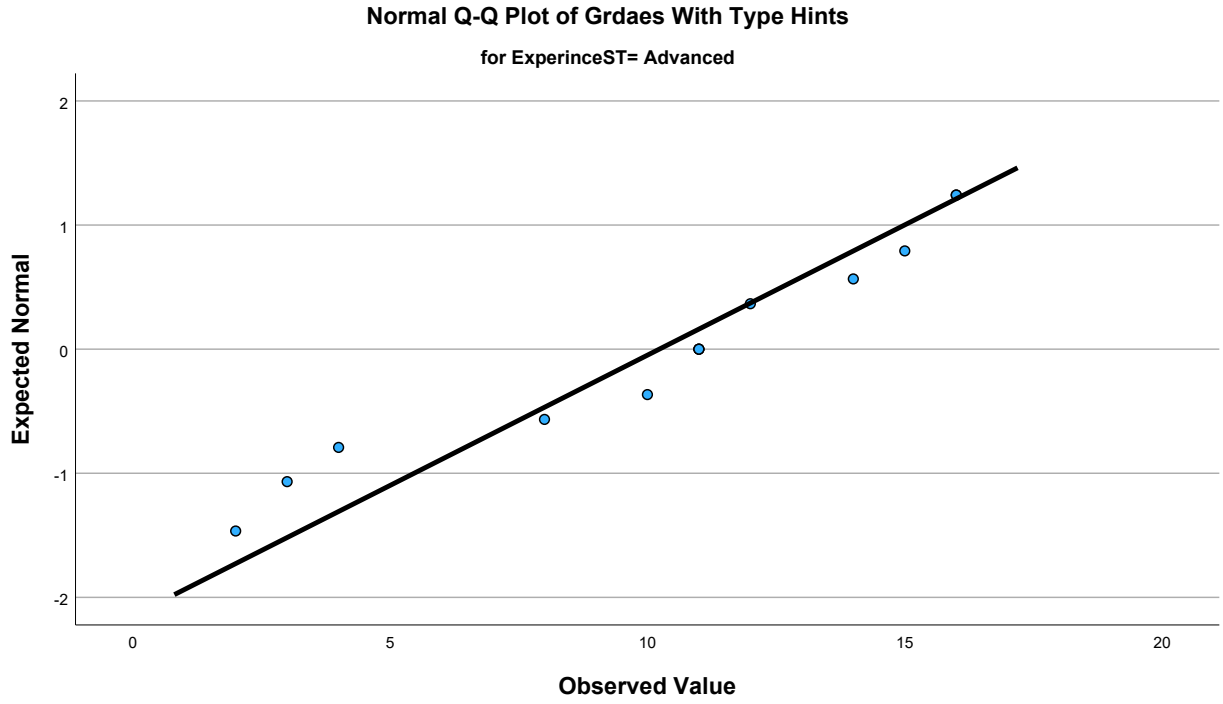

Histogram
for ExperinceST= Advanced
Mean = 10.23
Std. Dev. = 4.764
N = 13
Frequency
Grdaes With Type Hints

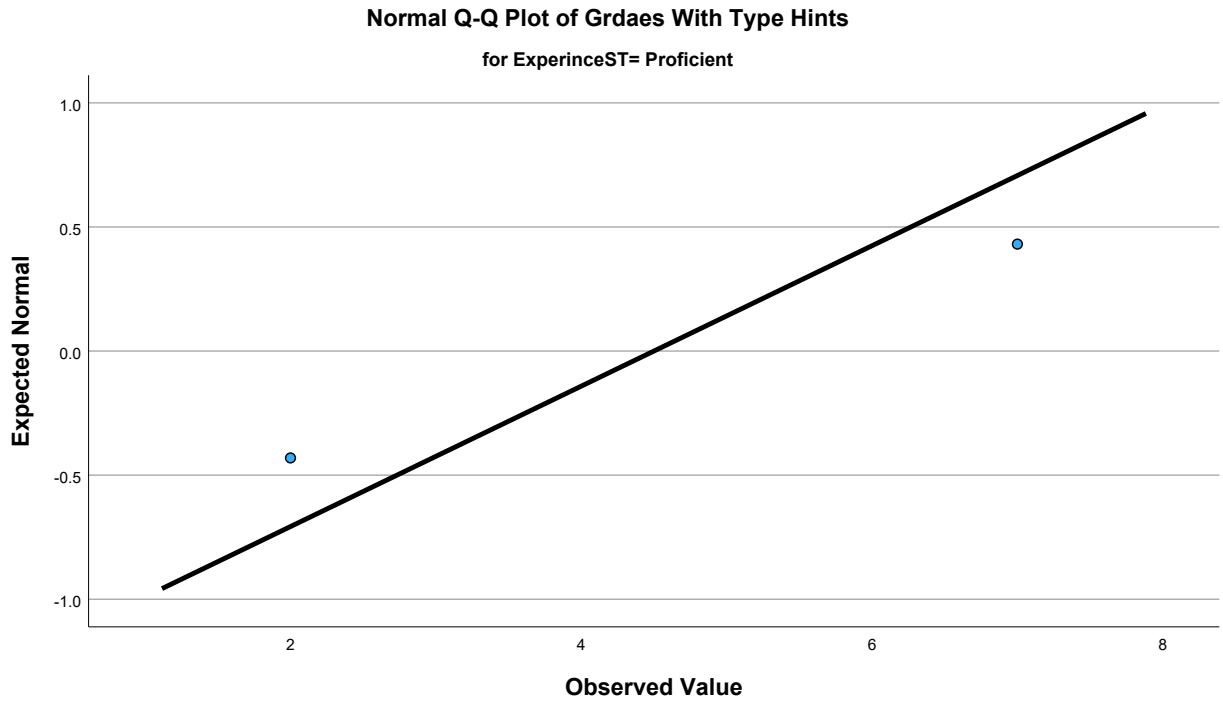


Normal Q-Q Plots

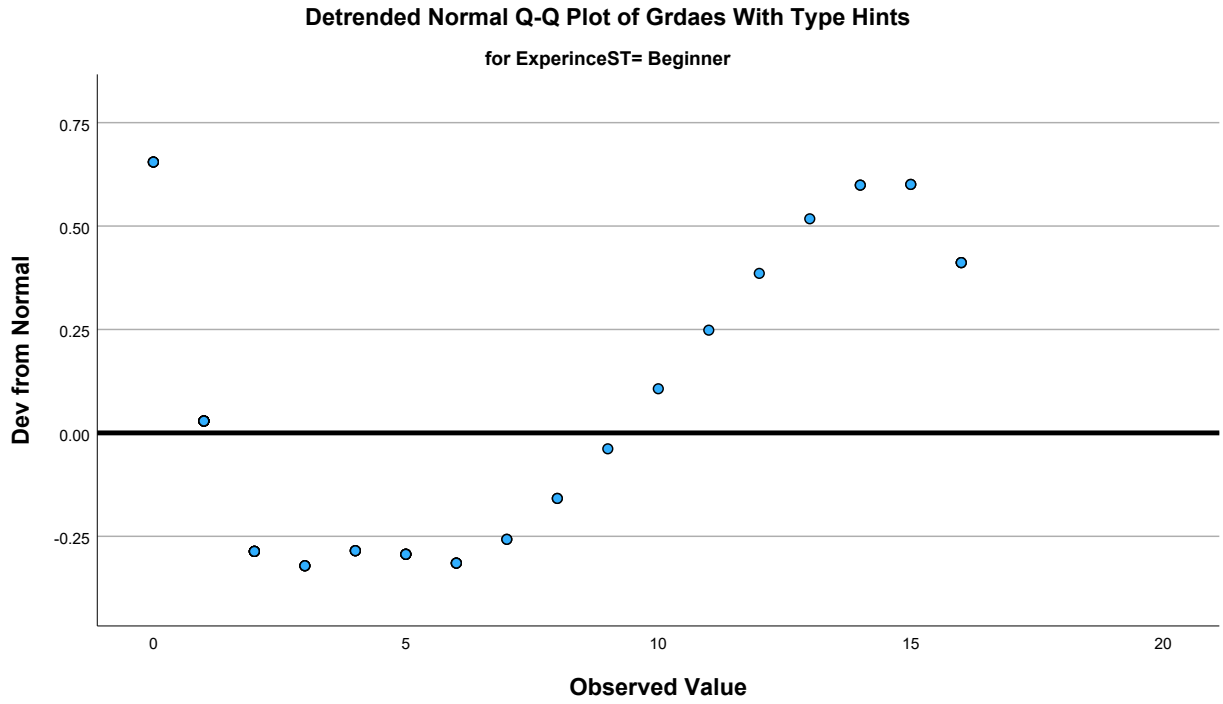


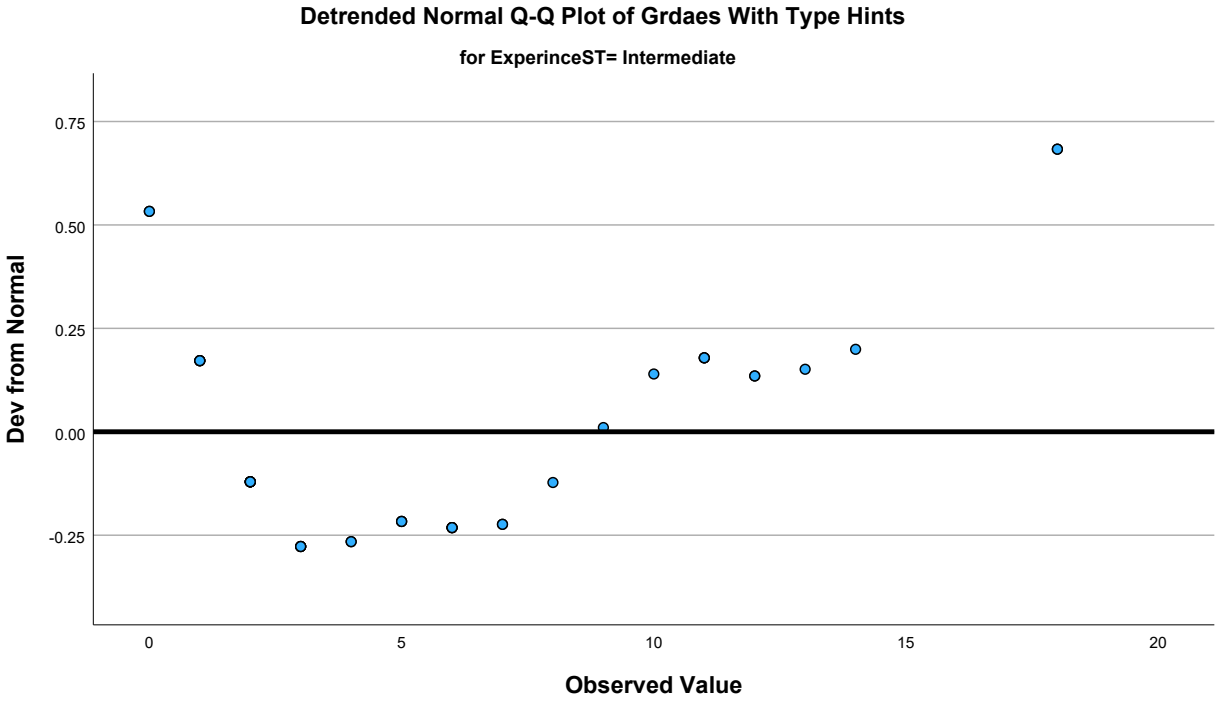

Normal Q-Q Plot of Grdaes With Type Hints
for ExperinceST= Intermediate
Expected Normal
3
2
1
0
-1
-2
-5
0
5
10
15
20
Observed Value

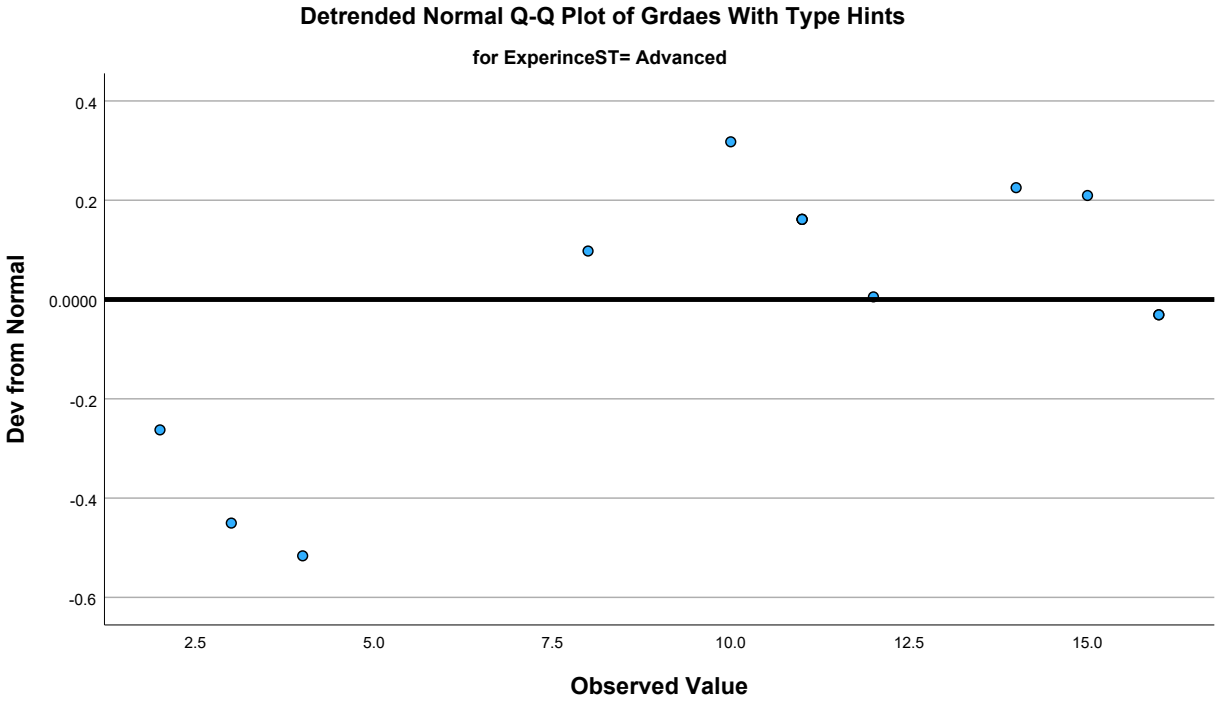

Normal Q-Q Plot of Grdaes With Type Hints
for ExperinceST= Advanced
Expected Normal
2
1
0
-1
-2
0
5
10
15
20
Observed Value

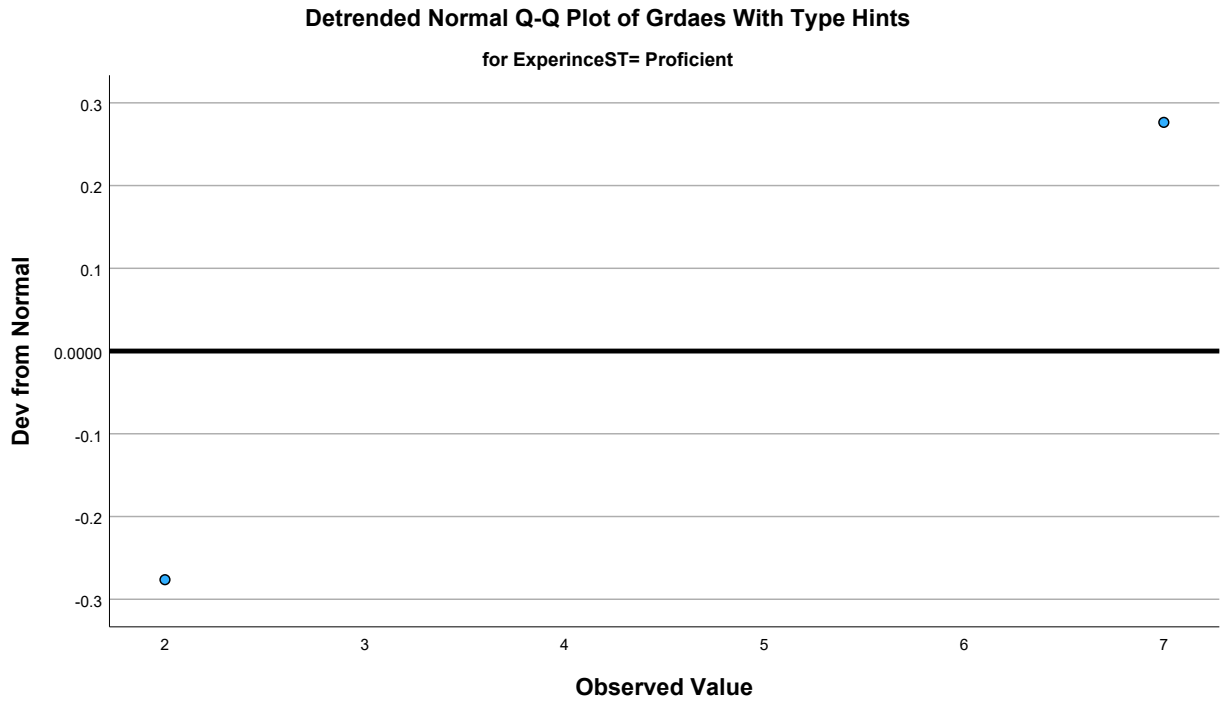


Detrended Normal Q-Q Plots

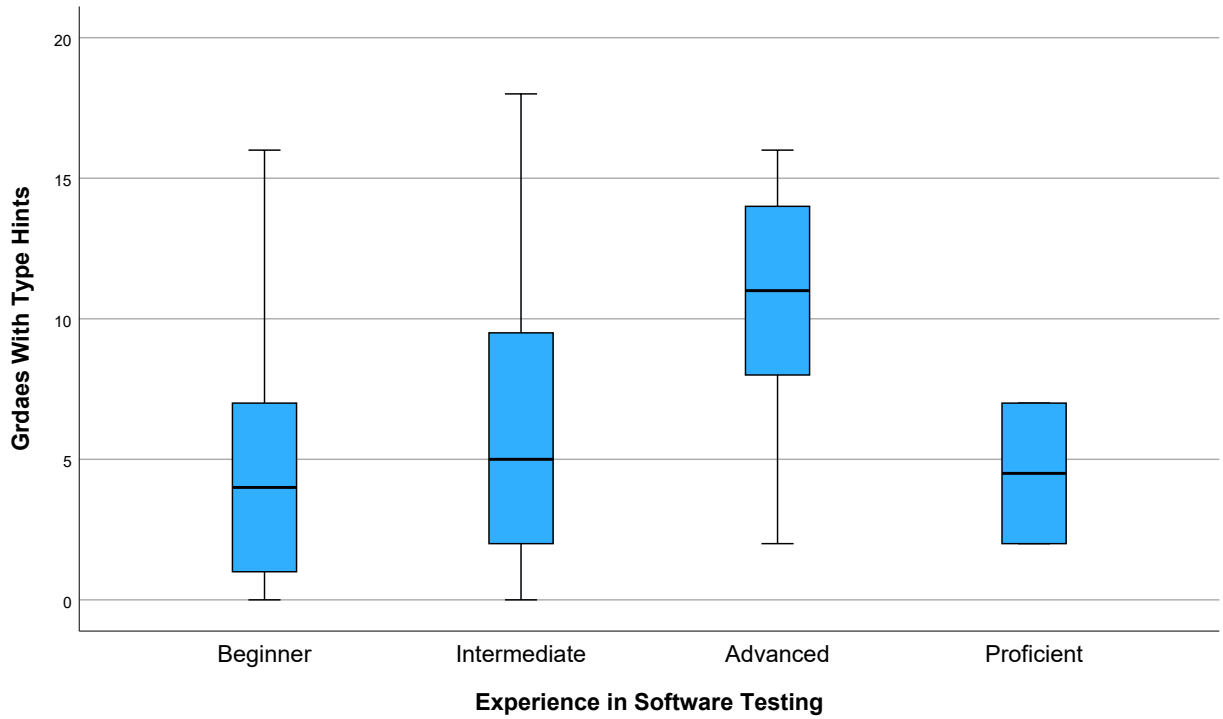



Detrended Normal Q-Q Plot of Grdaes With Type Hints
for ExperinceST= Intermediate
Dev from Normal
0.75
0.50
0.25
0.00
-0.25
0
5
10
15
20
Observed Value


Detrended Normal Q-Q Plot of Grdaes With Type Hints
for ExperinceST= Advanced
Dev from Normal
0.4
0.2
0.0000
-0.2
-0.4
-0.6
2.5
5.0
7.5
10.0
12.5
15.0
Observed Value


Detrended Normal Q-Q Plot of Grdaes With Type Hints
for ExperinceST= Proficient
Dev from Normal
0.3
0.2
0.1
0.0000
-0.1
-0.2
-0.3
2
3
4
5
6
7
Observed Value

Boxplots


Grdaes With Type Hints
20
15
10
5
0
Beginner
Intermediate
Advanced
Proficient
Experience in Software Testing