

Level of Experience in Programming

Case Processing Summary

		Cases			
Level of Experience in Programming		Valid		Missing	
		N	Percent	N	Percent
Grdaes With Type Hints	Beginner	6	100.0%	0	0.0%
	Intermediate	44	100.0%	0	0.0%
	Advanced	52	100.0%	0	0.0%
	Proficent	10	100.0%	0	0.0%

Case Processing Summary

		Cases	
Level of Experience in Programming		Total	
		N	Percent
Grdaes With Type Hints	Beginner	6	100.0%
	Intermediate	44	100.0%
	Advanced	52	100.0%
	Proficent	10	100.0%

Descriptives

Level of Experience in Programming			Statistic	Std. Error
Grdaes With Type Hints	Beginner	Mean	1.67	.615
		95% Confidence Interval for Mean	Lower Bound	.09
			Upper Bound	3.25
		5% Trimmed Mean	1.63	
		Median	1.00	
		Variance	2.267	
		Std. Deviation	1.506	
		Minimum	0	
		Maximum	4	
		Range	4	
		Interquartile Range	3	
		Skewness	.840	.845
		Kurtosis	-.649	1.741
	Intermediate	Mean	4.68	.618
		95% Confidence Interval for Mean	Lower Bound	3.43
			Upper Bound	5.93
		5% Trimmed Mean	4.45	
		Median	3.50	
		Variance	16.827	
		Std. Deviation	4.102	

Descriptives

Level of Experience in Programming			Statistic	Std. Error
		Minimum	0	
		Maximum	14	
		Range	14	
		Interquartile Range	6	
		Skewness	.826	.357
		Kurtosis	-.468	.702
	Advanced	Mean	7.12	.735
		95% Confidence Interval for Mean	Lower Bound	5.64
			Upper Bound	8.59
		5% Trimmed Mean	6.92	
		Median	5.50	
		Variance	28.104	
		Std. Deviation	5.301	
		Minimum	0	
		Maximum	18	
		Range	18	
		Interquartile Range	8	
		Skewness	.594	.330
		Kurtosis	-.903	.650
	Proficient	Mean	9.20	1.718
		95% Confidence Interval for Mean	Lower Bound	5.31
			Upper Bound	13.09
		5% Trimmed Mean	9.28	
		Median	9.50	
		Variance	29.511	
		Std. Deviation	5.432	
		Minimum	1	
		Maximum	16	
		Range	15	
		Interquartile Range	11	
		Skewness	-.110	.687
		Kurtosis	-1.674	1.334

Extreme Values^a

Grdaes With Type Hints	Level of Experience in Programming			Case Number	Value
	Beginner	Highest	1	100	4
			2	70	3
			3	13	1 ^b
		Lowest	1	75	0
			2	60	1
			3	40	1 ^c
	Intermediate	Highest	1	104	14
			2	35	13
			3	102	13
			4	81	12
			5	8	11 ^d
		Lowest	1	56	0
			2	46	0
			3	45	0
			4	112	1
			5	84	1 ^c
	Advanced	Highest	1	26	18
			2	30	18
			3	3	16
			4	31	16
			5	33	16 ^e
		Lowest	1	29	0
			2	14	0
			3	107	1
			4	105	1
			5	42	1
	Proficent	Highest	1	4	16
			2	5	15
			3	16	15
			4	77	12
			5	96	12
		Lowest	1	1	1
			2	99	4
			3	90	4
			4	9	6
			5	20	7

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

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

- c. Only a partial list of cases with the value 1 are shown in the table of lower extremes.
- d. Only a partial list of cases with the value 11 are shown in the table of upper extremes.
- e. Only a partial list of cases with the value 16 are shown in the table of upper extremes.

Tests of Normality

	Level of Experience in Programming	Kolmogorov-Smirnov ^a			Shapiro-...
		Statistic	df	Sig.	Statistic
Grdaes With Type Hints	Beginner	.338	6	.031	.866
	Intermediate	.221	44	<.001	.876
	Advanced	.160	52	.002	.909
	Proficent	.197	10	.200*	.907

Tests of Normality

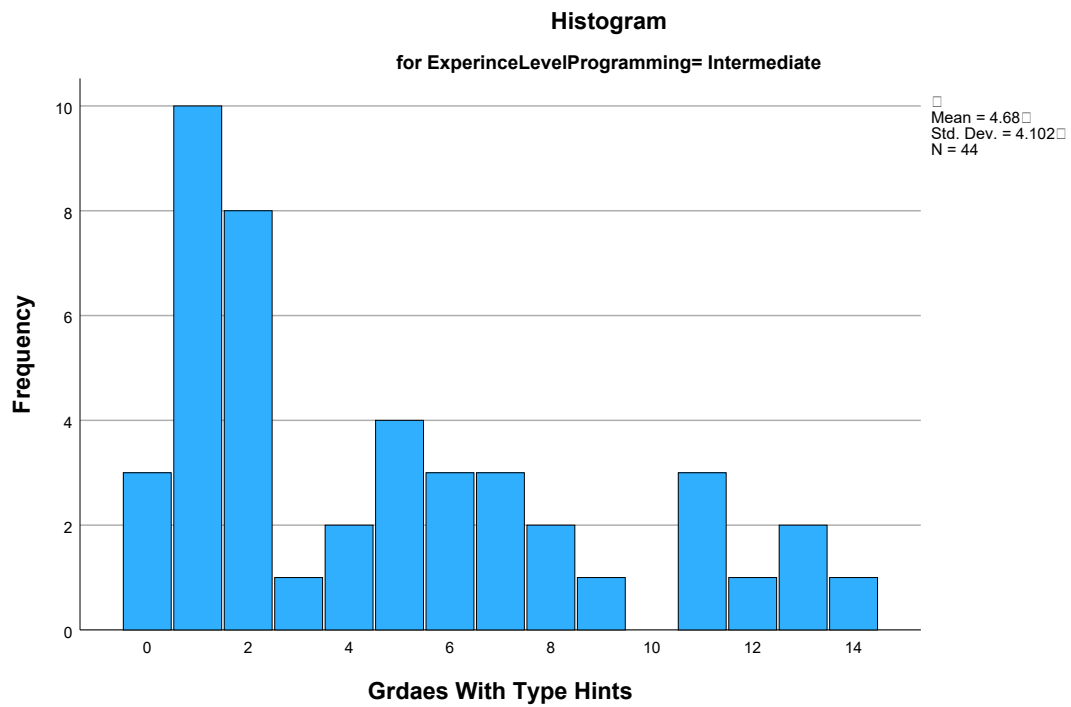
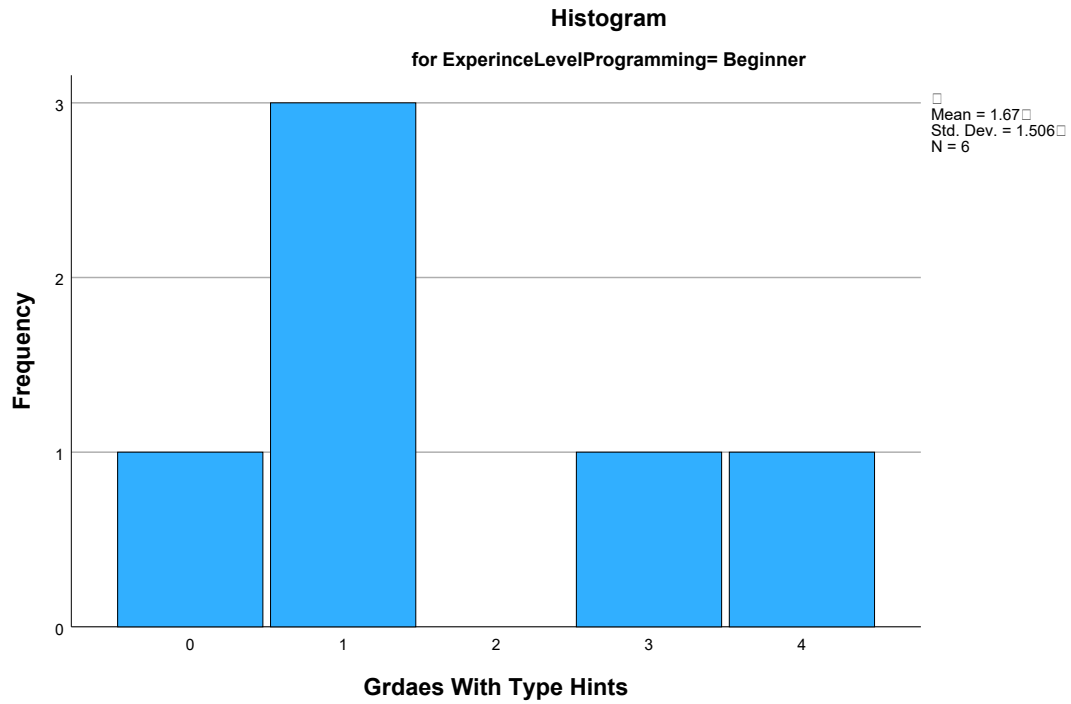
	Level of Experience in Programming	Shapiro-Wilk	
		df	Sig.
Grdaes With Type Hints	Beginner	6	.212
	Intermediate	44	<.001
	Advanced	52	<.001
	Proficent	10	.260

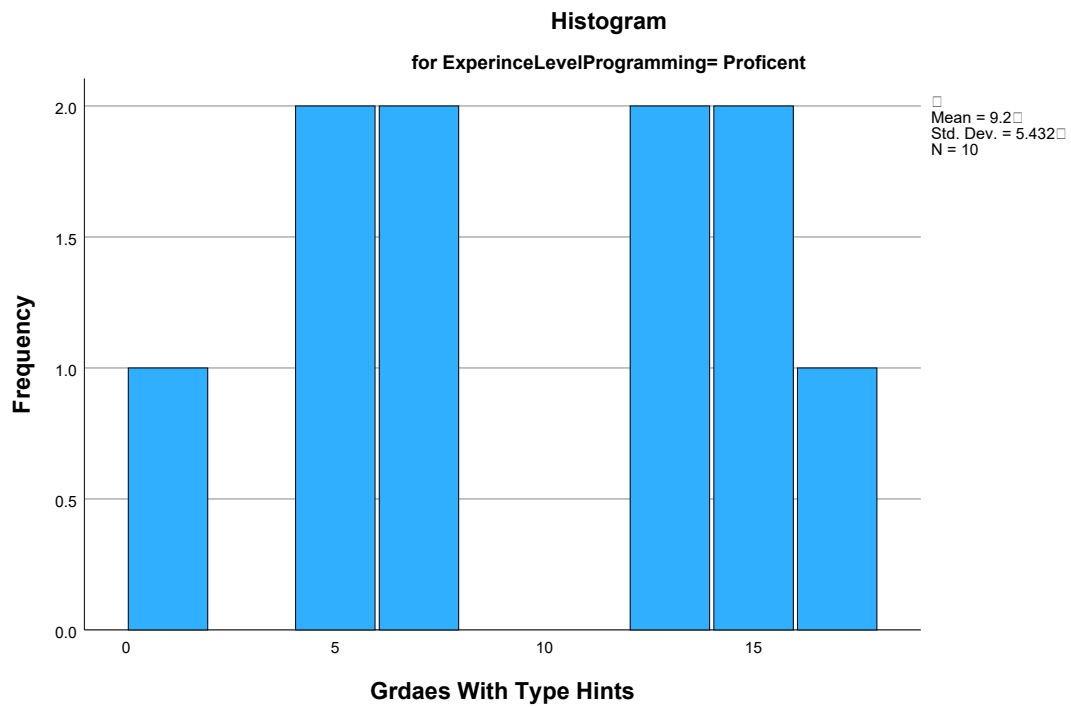
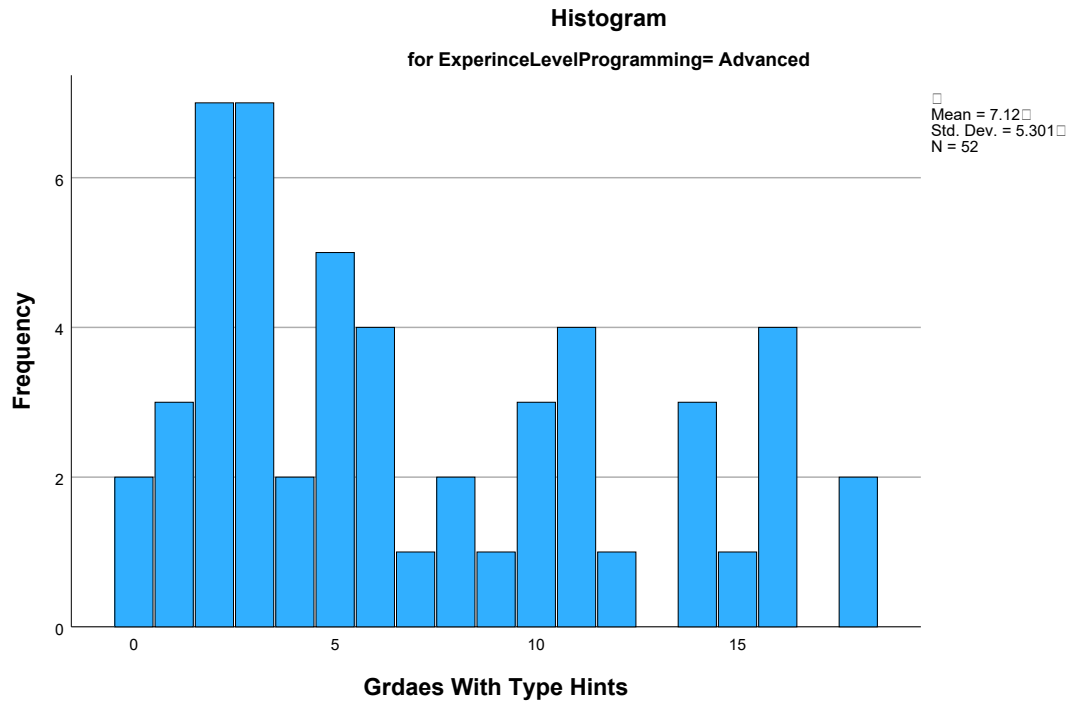
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

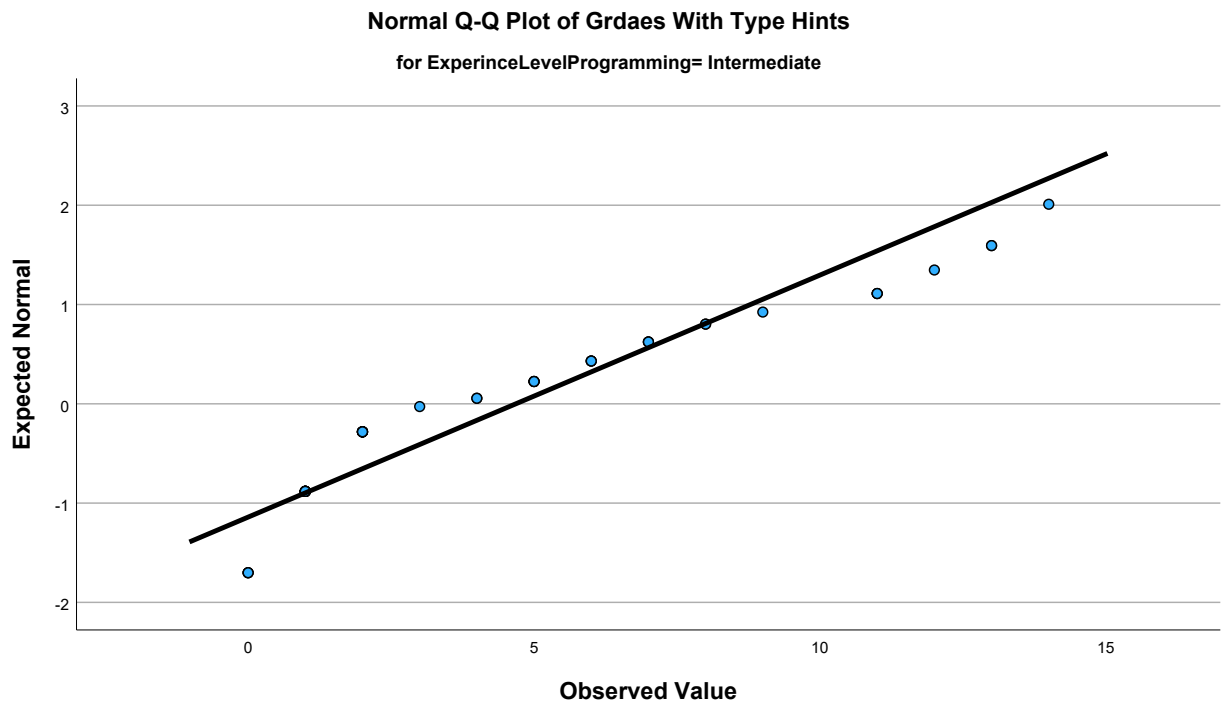
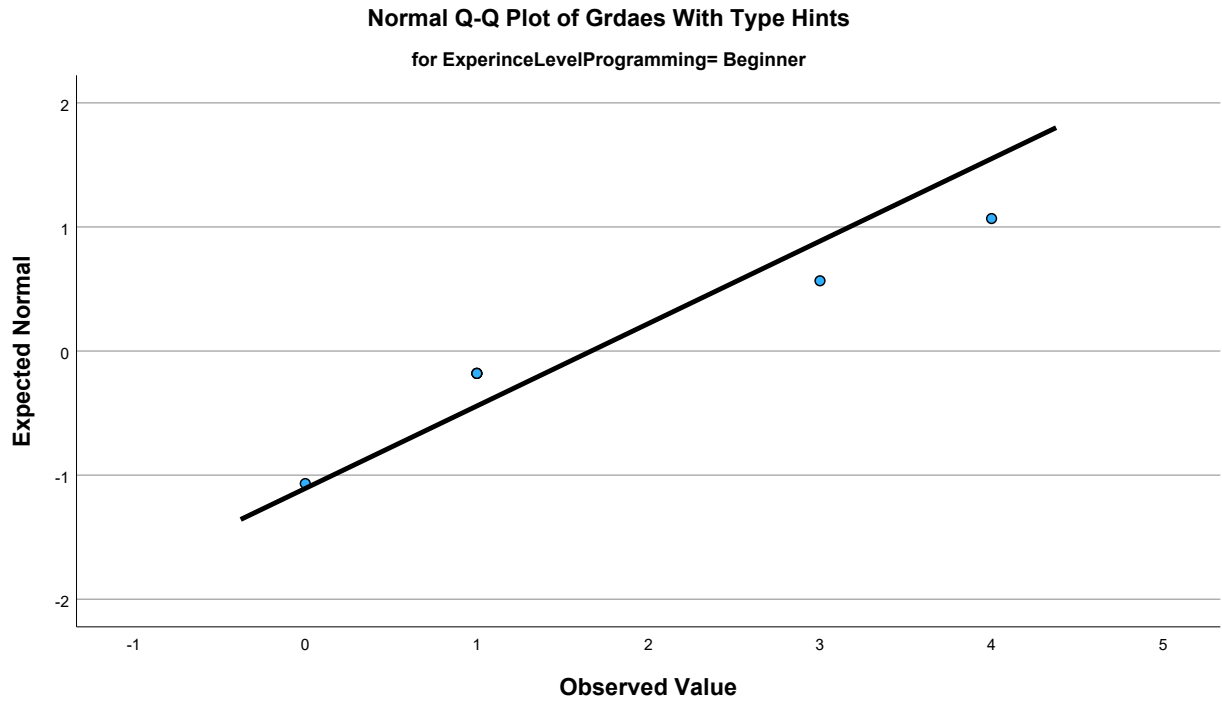
Grdaes With Type Hints

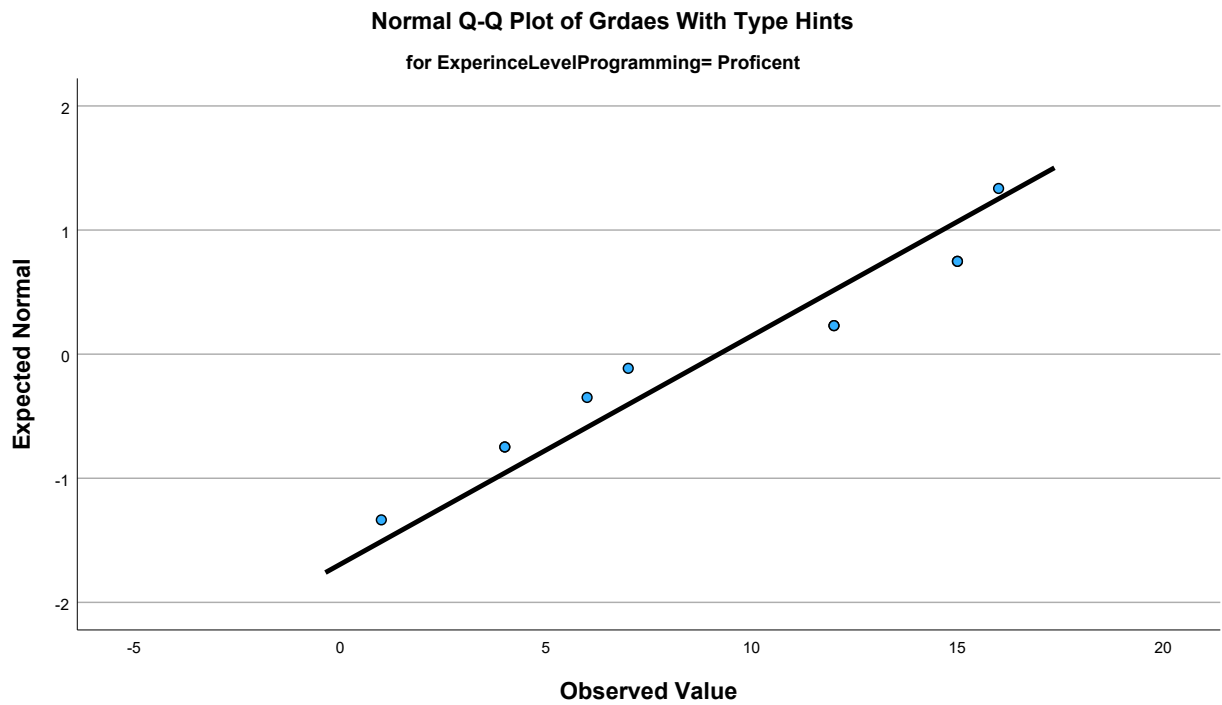
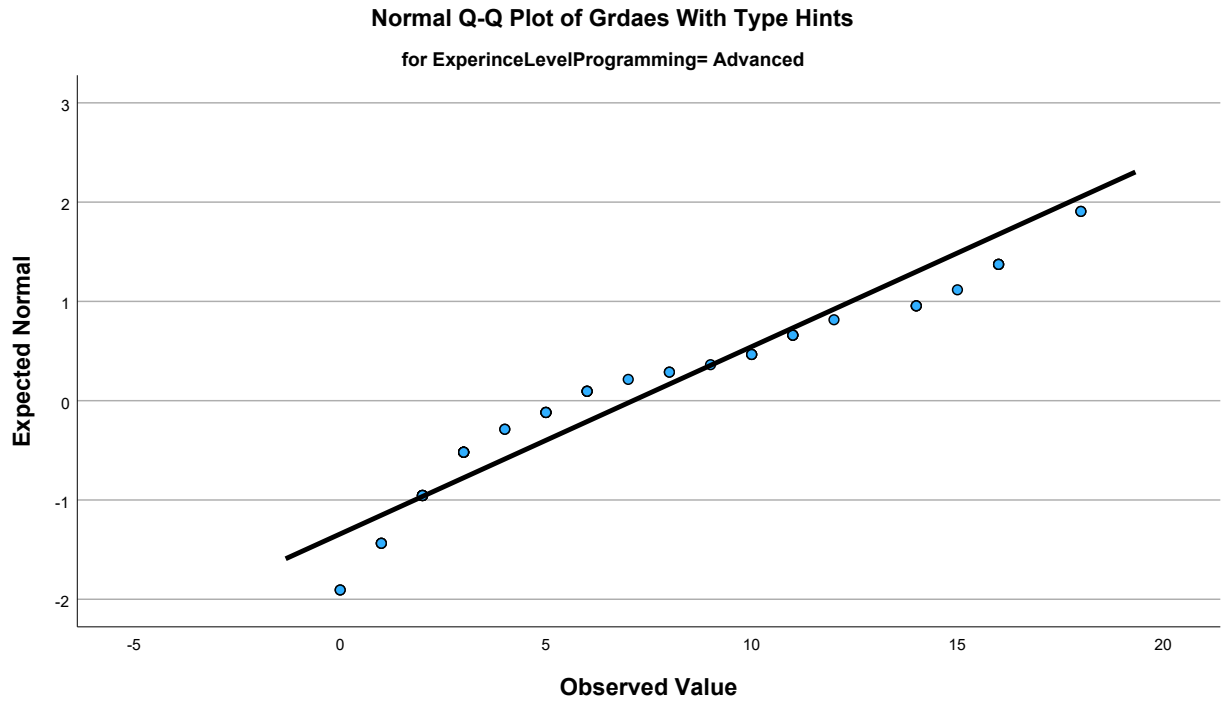
Histograms





Normal Q-Q Plots





Detrended Normal Q-Q Plots

