Normality Tests

| Variable	Shapiro-Wilk Statistic	df	Sig.
Pre Overarching Concept	0.875	17	0.026*
Pre Knowledge of Students	0.923	17	0.168
Pre Knowledge of Curriculum	0.874	17	0.025*
Pre Instructional Strategies	0.948	17	0.419
Pre TPACK Overall Mean	0.958	17	0.587
Pre MCOP^2 Student Engagement Mean	0.934	17	0.253
Pre MCOP^2 Teacher Facilitation Mean	0.952	17	0.486
Pre MCOP^2 Overall Mean	0.942	17	0.343
Post Overarching Concept	0.854	17	0.012*
Post Knowledge of Students	0.898	17	0.064
Post Knowledge of Curriculum	0.871	17	0.023*
Post Instructional Strategies	0.790	17	0.002*
Post TPACK Overall Mean	0.888	17	0.044*
Post MCOP^2 Student Engagement Mean	0.971	17	0.829
Post MCOP^2 Teacher Facilitation Mean	0.940	17	0.319
Post MCOP^2 Overall Mean	0.960	17	0.640
Gain TPACK Overarching Concept	0.936	17	0.279
Gain TPACK Knowledge of Students	0.876	17	0.027*
Gain TPACK Knowledge of Curriculum	0.897	17	0.06
Gain TPACK Instructional Strategies	0.948	17	0.422
Gain TPACK Overall Mean	0.949	17	0.446
Gain MCOP^2 Teacher Facilitation	0.934	17	0.256
Gain MCOP^2 Student Engagement	0.955	17	0.537
Gain MCOP^2 Overall Mean	0.976	17	0.914

*$p < 0.05$.

Normal Q-Q Plot of Pre Overarching Concept
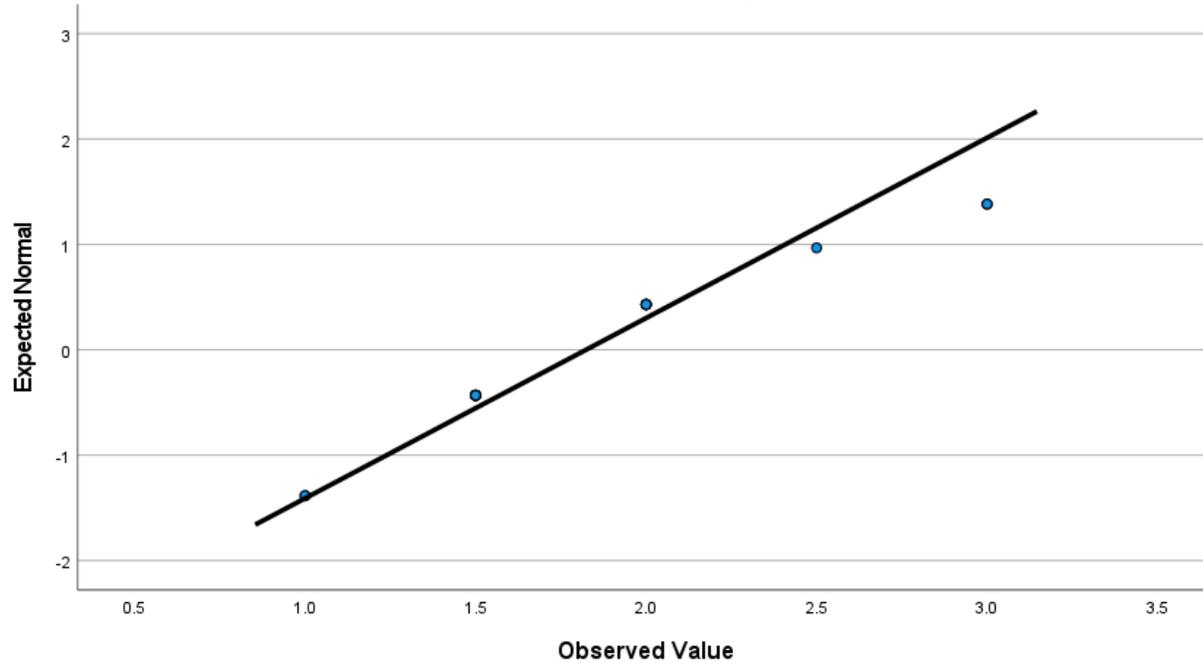
Normal Q-Q Plot of Pre Knowledge of Students
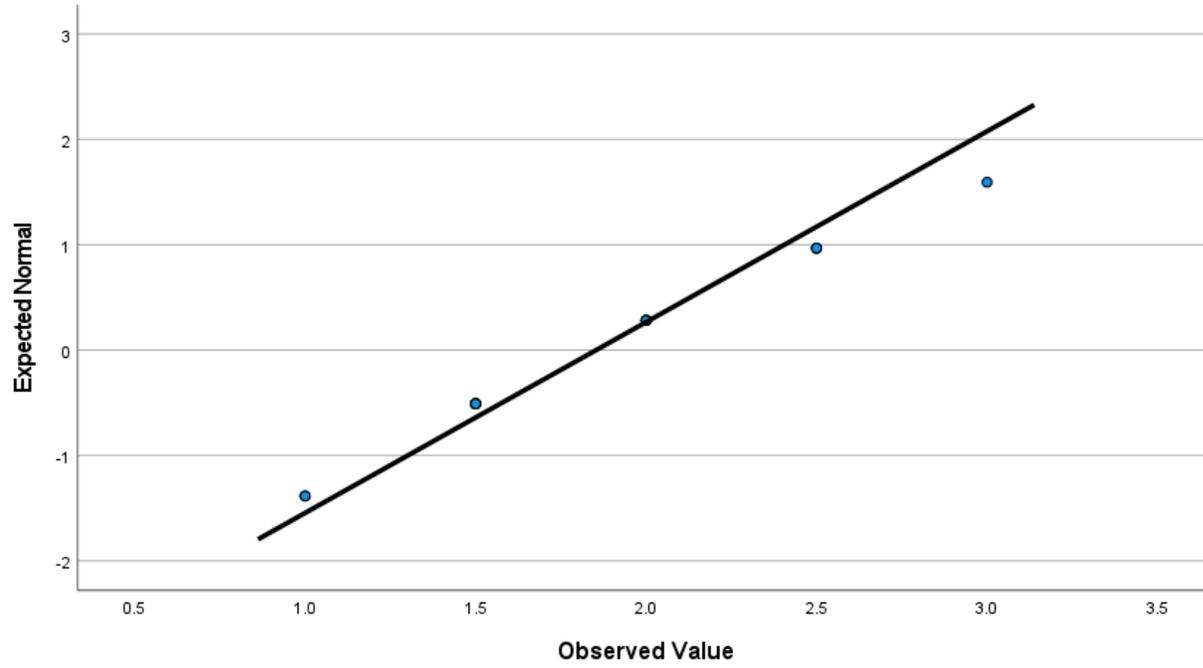
Normal Q-Q Plot of Pre Knowledge of Curriculum
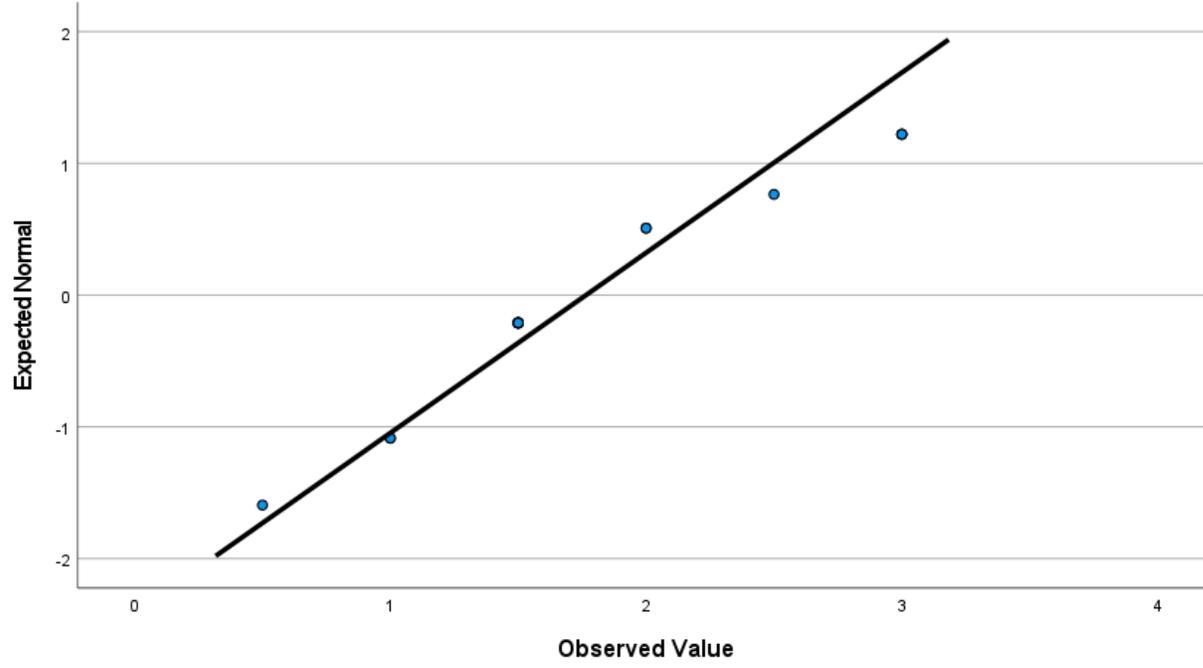
Normal Q-Q Plot of Pre Instructional Strategies
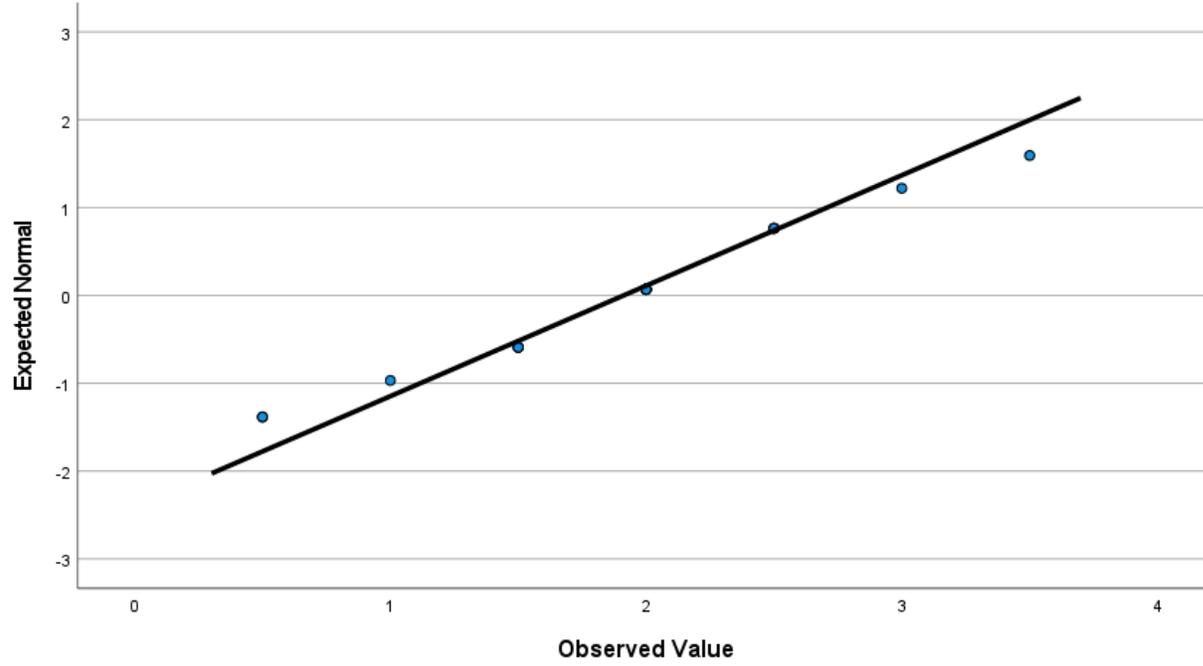
Normal Q-Q Plot of PreTPACKMean   (Pre TPACK Overall Mean)
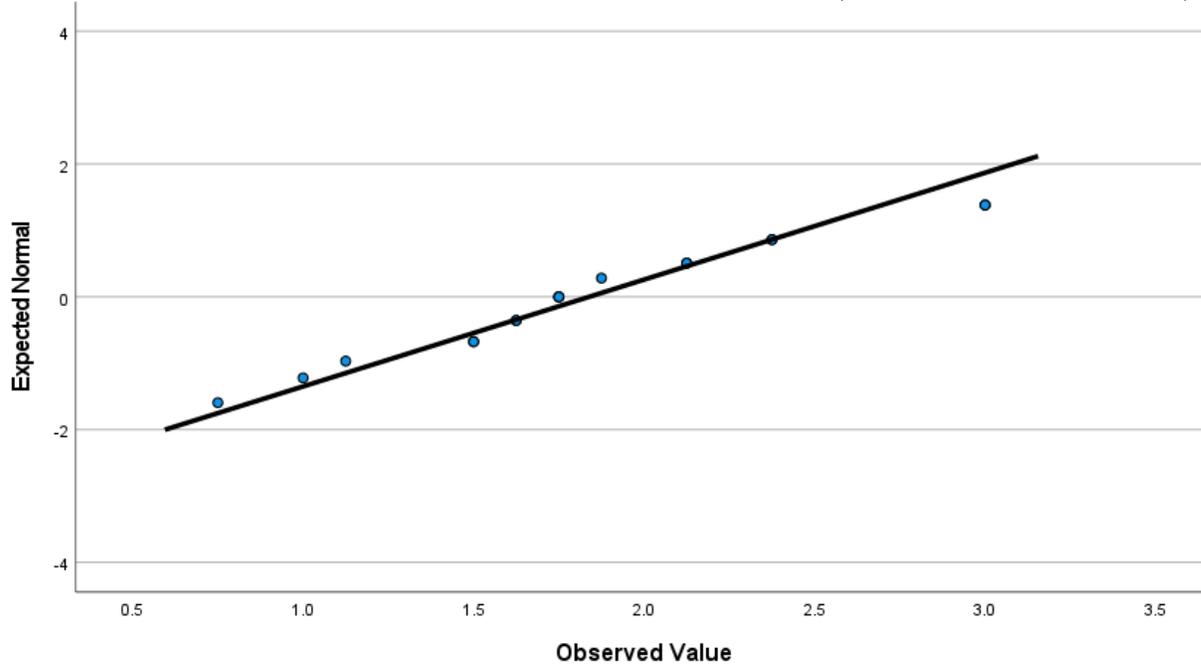
Normal Q-Q Plot of Pre MCOP2 Student Engagement Mean
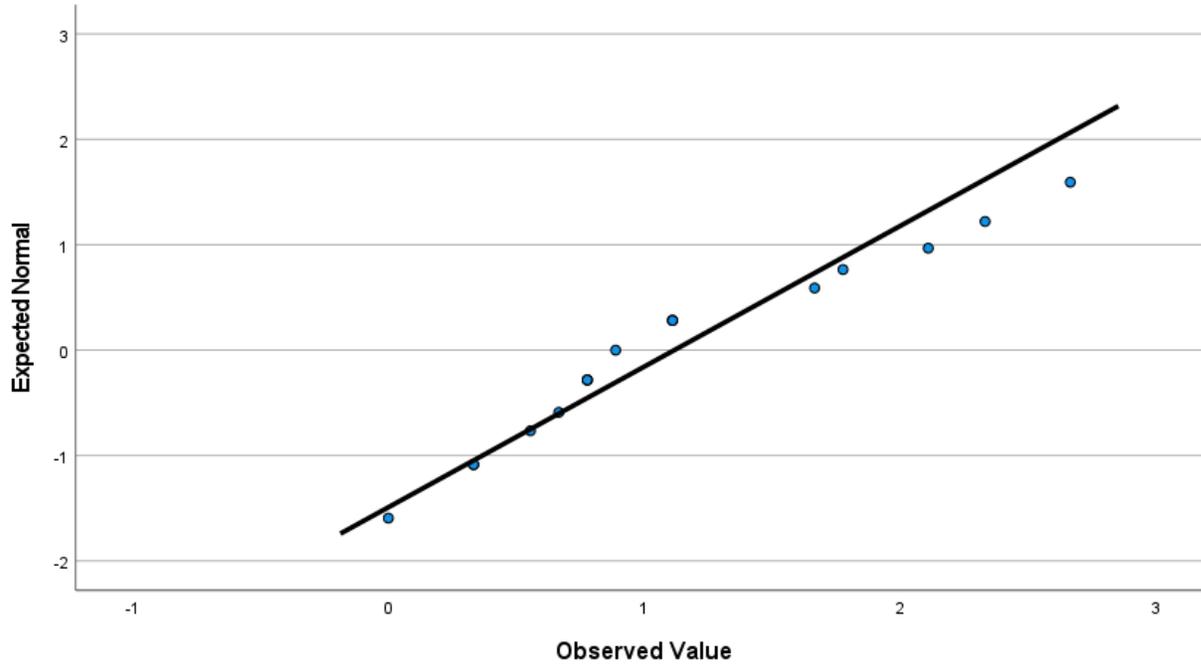
Normal Q-Q Plot of Pre MCOP2 Teacher Facilitation Mean
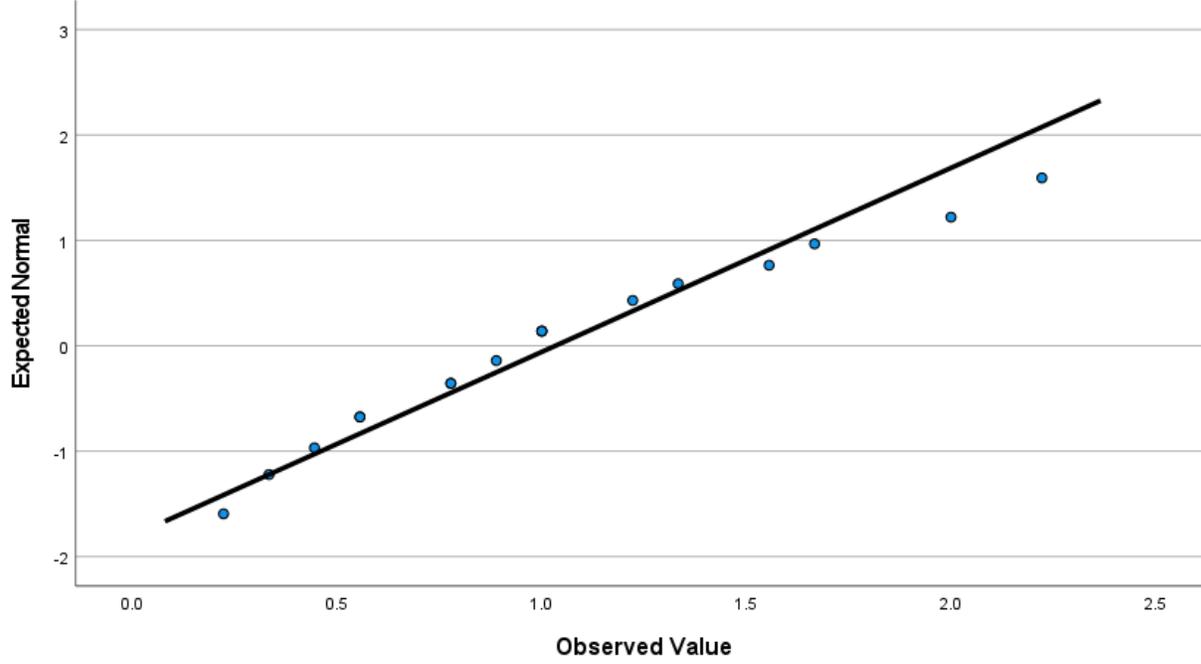
Normal Q-Q Plot of Pre MCOP2 Total Mean   (Pre-MCOP^2 Overall Mean)
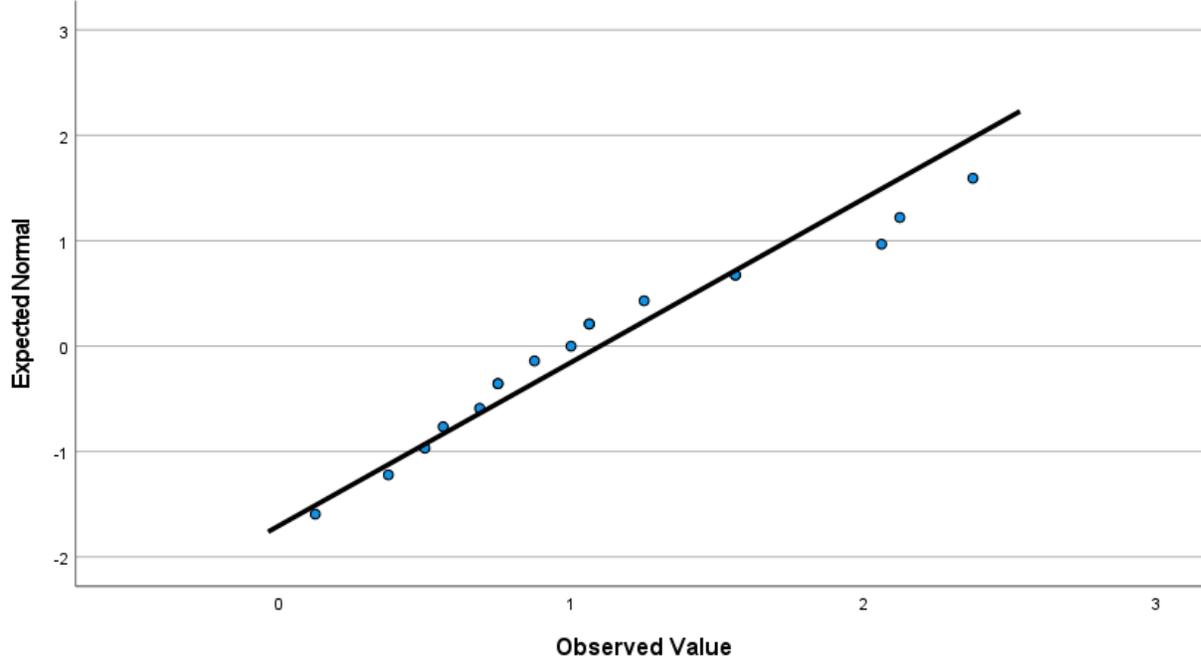
Normal Q-Q Plot of Post Overarching Concept
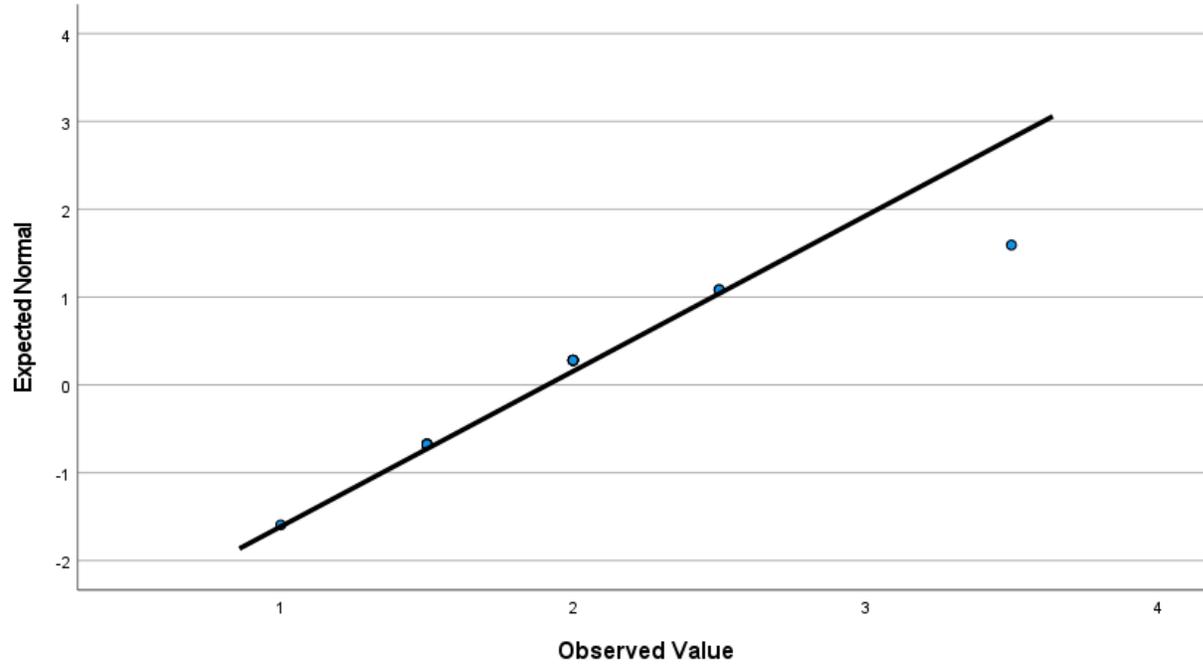
Normal Q-Q Plot of Post Knowledge of Students
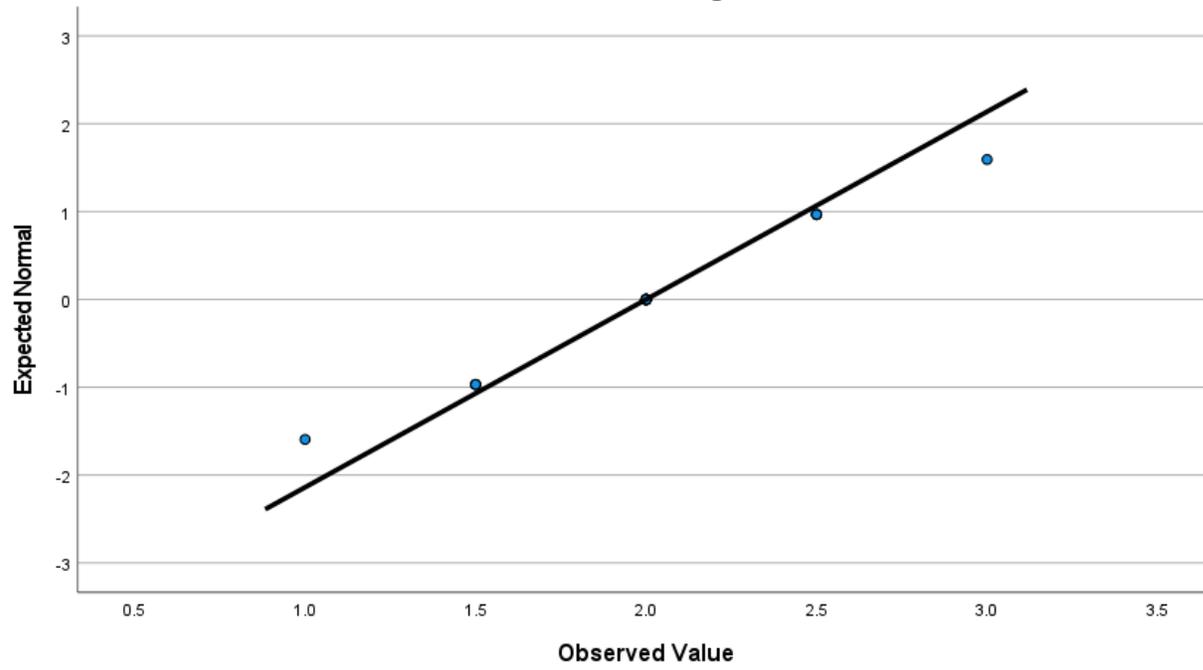
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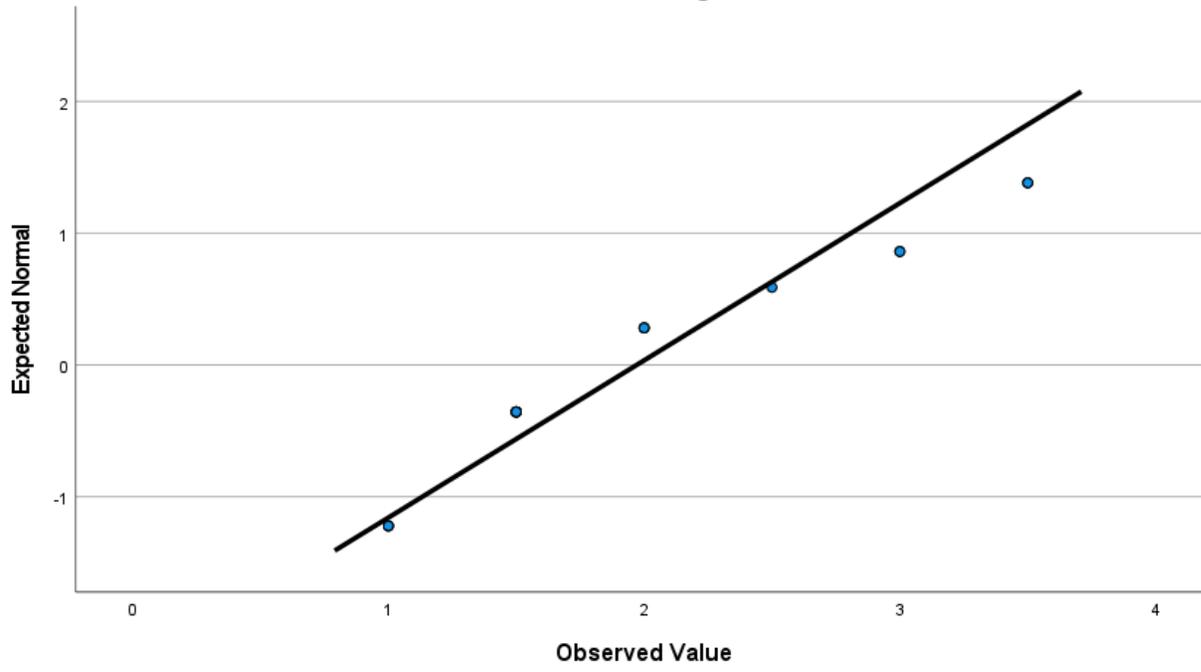
Normal Q-Q Plot of Post Instructional Strategies
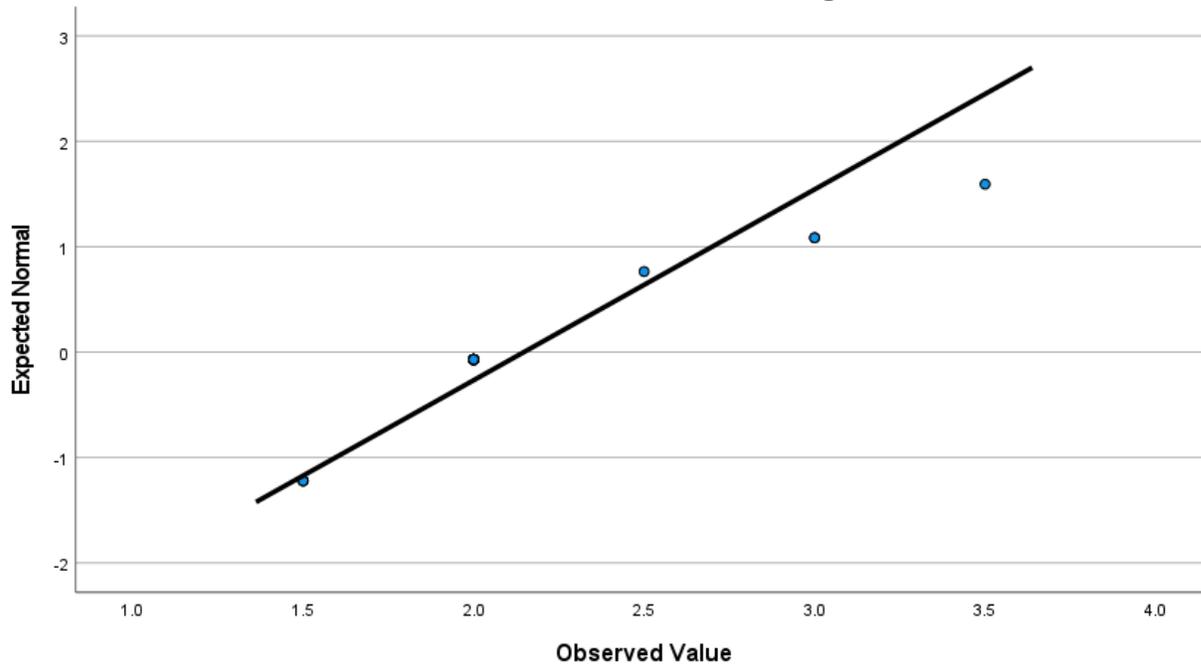
Normal Q-Q Plot of PostTPACKMean (Post TPACK Overall Mean)
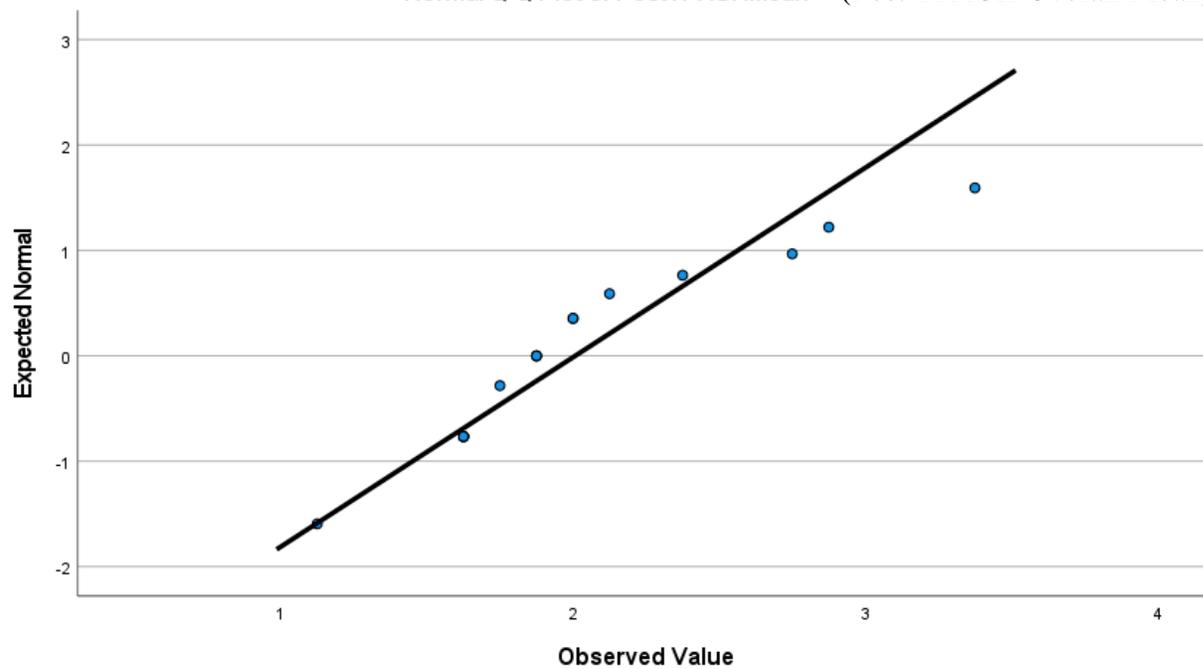
Normal Q-Q Plot of Post MCOP2 Student Engagement Mean
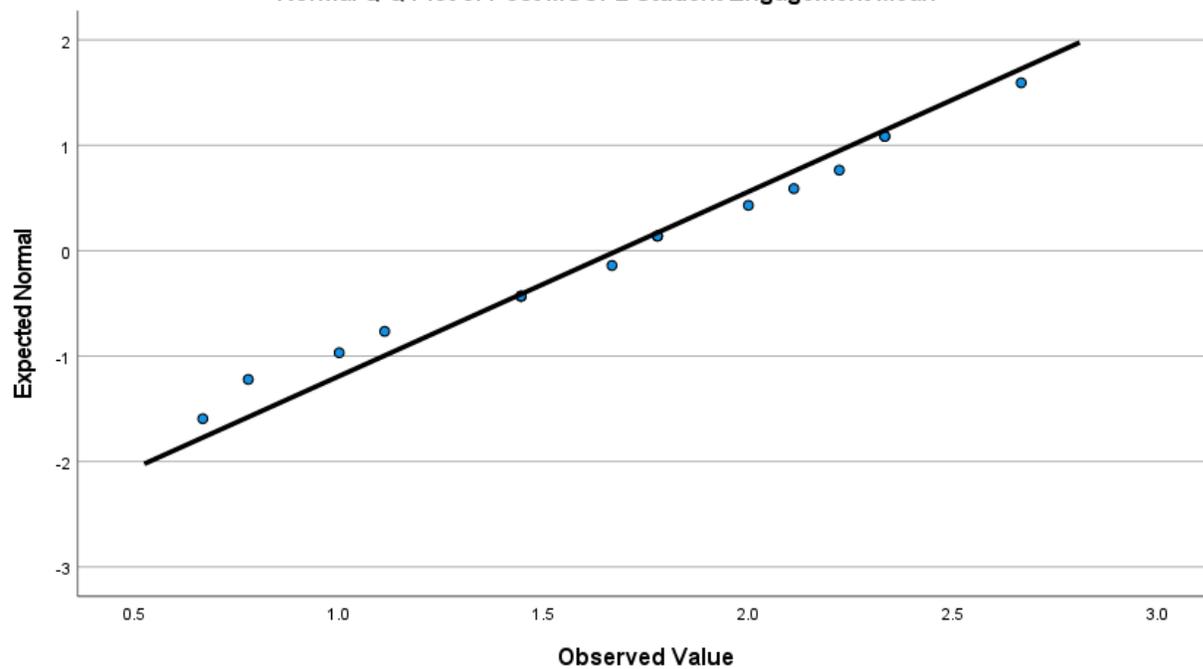
Normal Q-Q Plot of Post MCOP2 Teacher Facilitation Mean
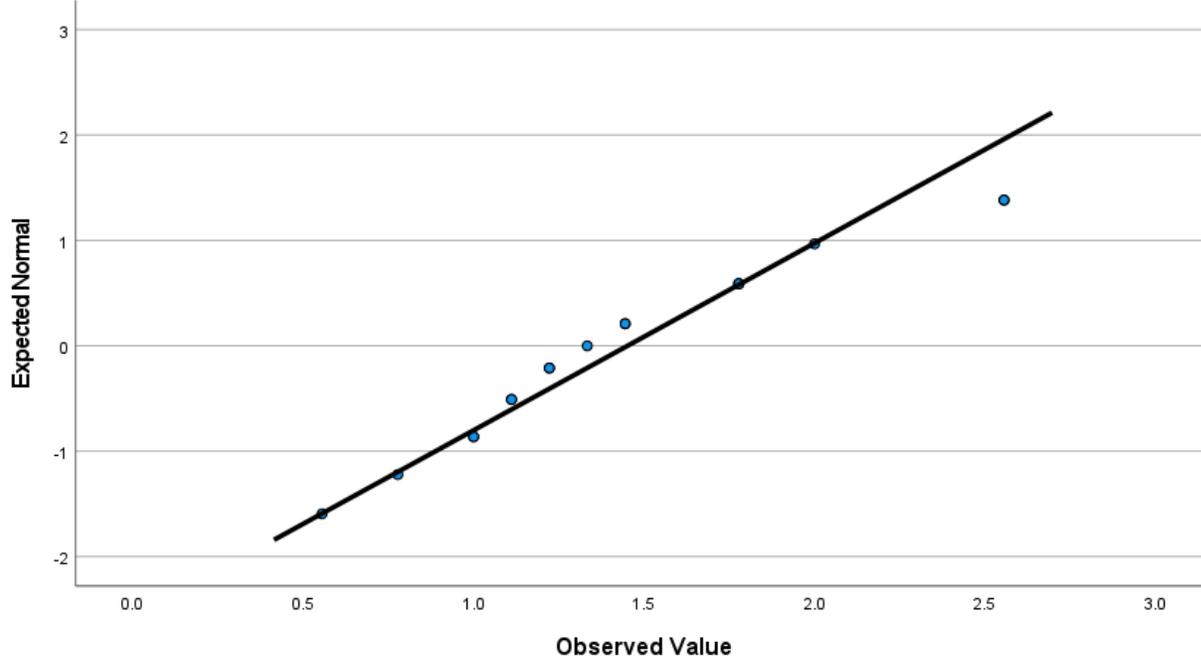
Normal Q-Q Plot of Post MCOP2 Total Mean

Post MCOP^2 Overall Mean
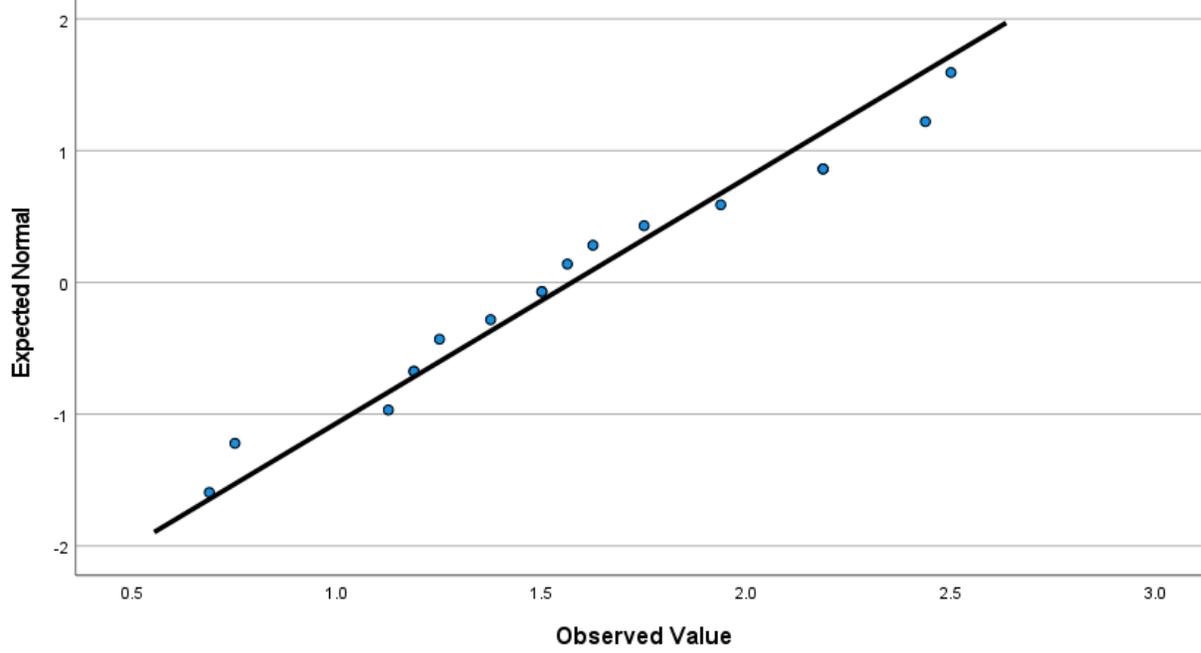
Normal Q-Q Plot of GainTPACKOC   (Gain TPACK Overarching Concept)
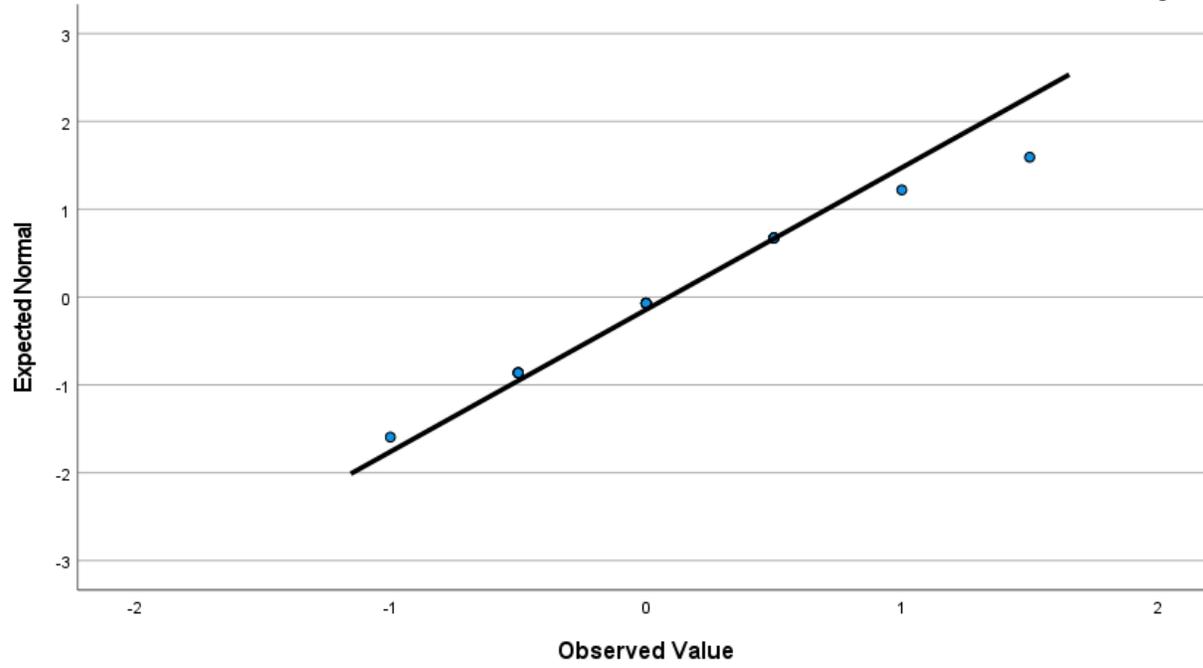
Normal Q-Q Plot of GainTPACKKoS   (Gain TPACK Knowledge of Students)
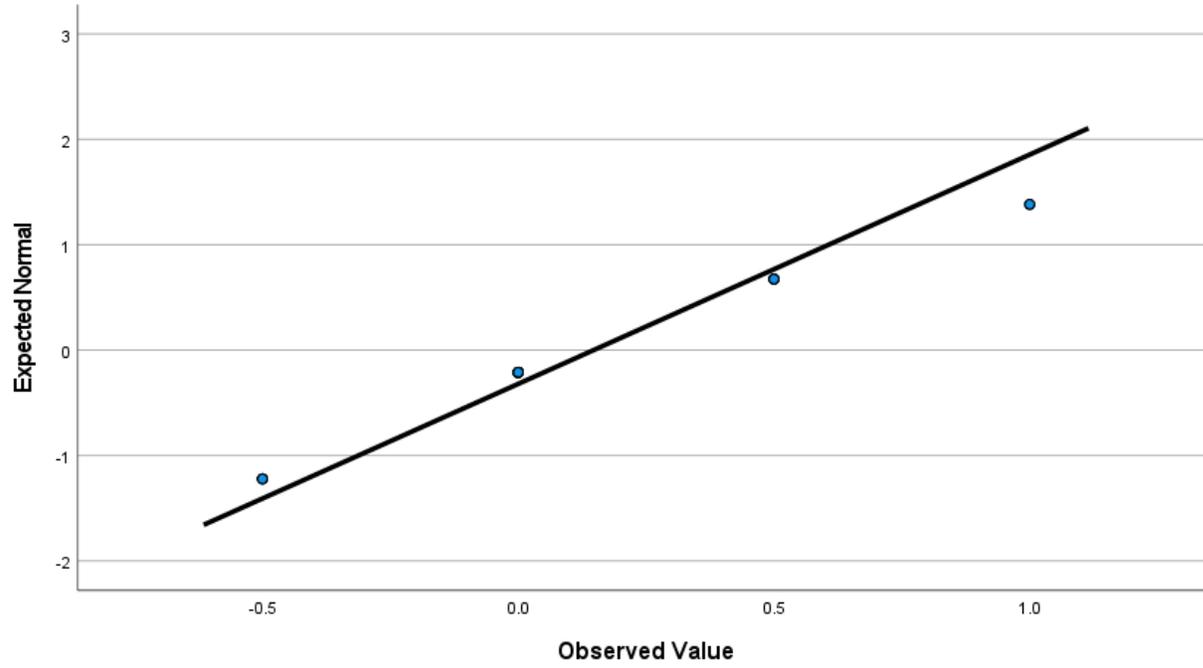
Normal Q-Q Plot of GainTPACKKoC   (Gain TPACK Knowledge of Curriculum)
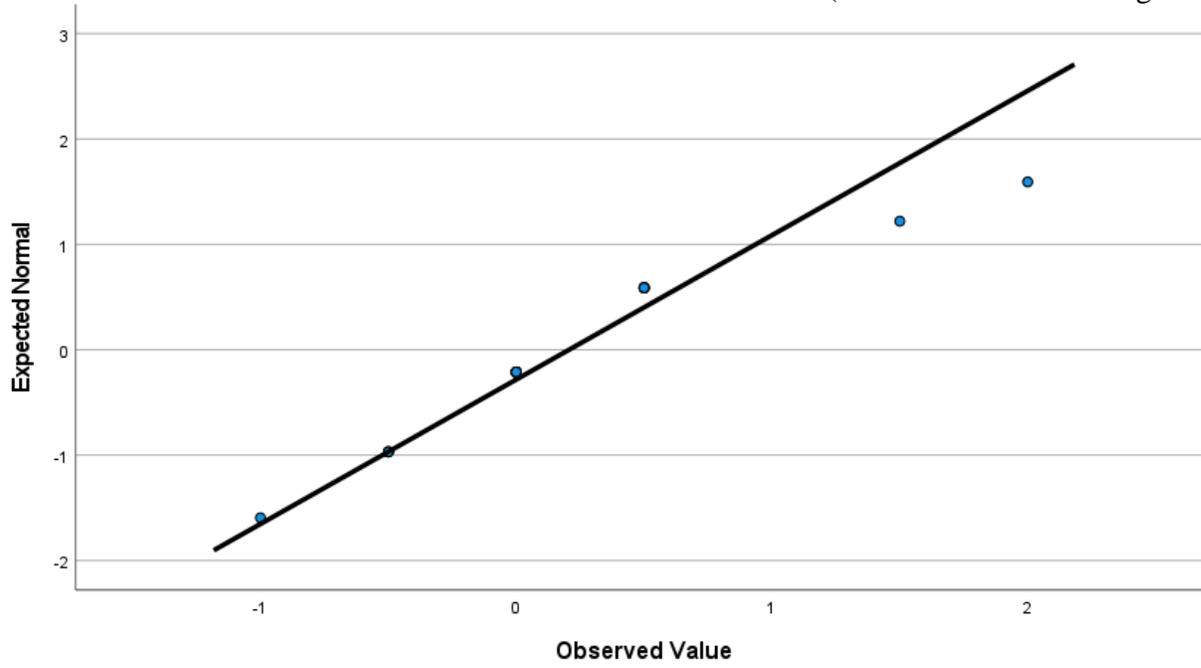
Normal Q-Q Plot of GainTPACKIS   (Gain TPACK Instructional Strategies)
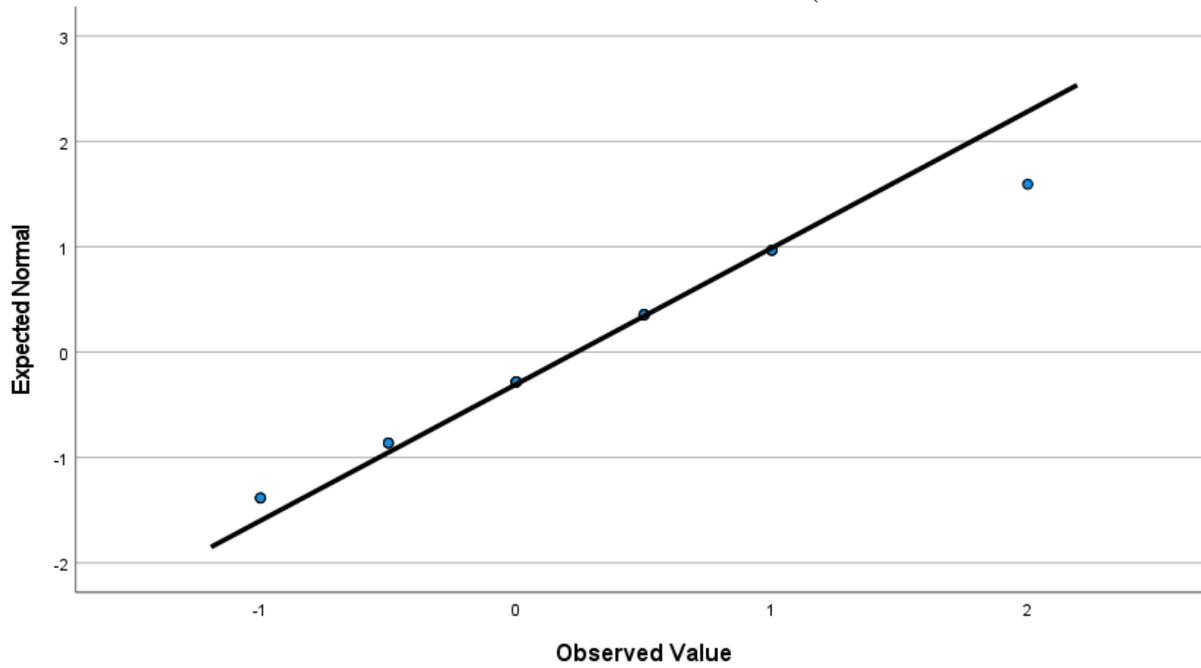
Normal Q-Q Plot of GainTPACK   (Gain TPACK Overall Mean)
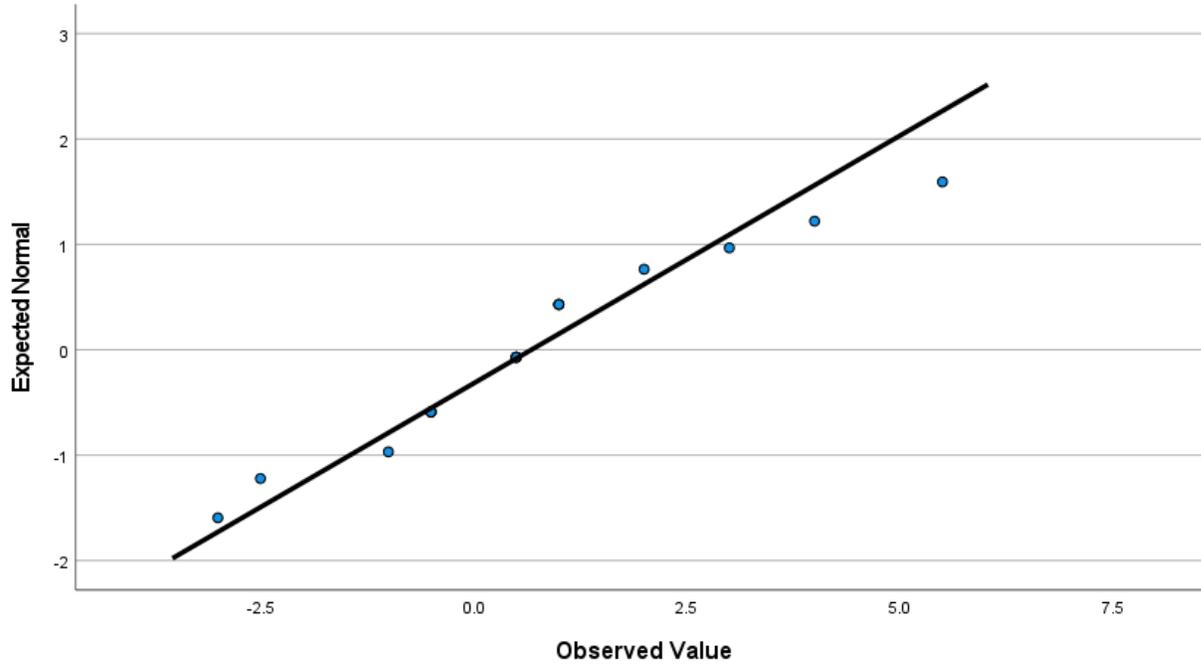
Normal Q-Q Plot of GainMCOP2Teacher   (Gain MCOP^2 Teacher Facilitation)
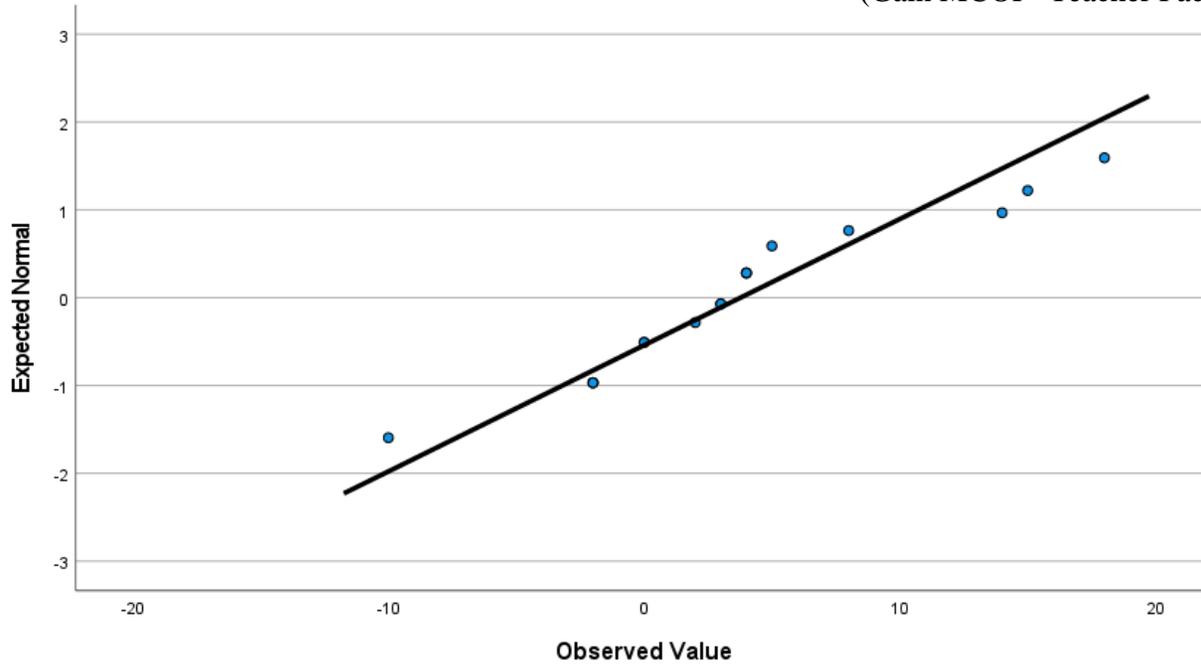
Normal Q-Q Plot of GainMCOP2Student   (Gain MCOP^2 Student Engagement)
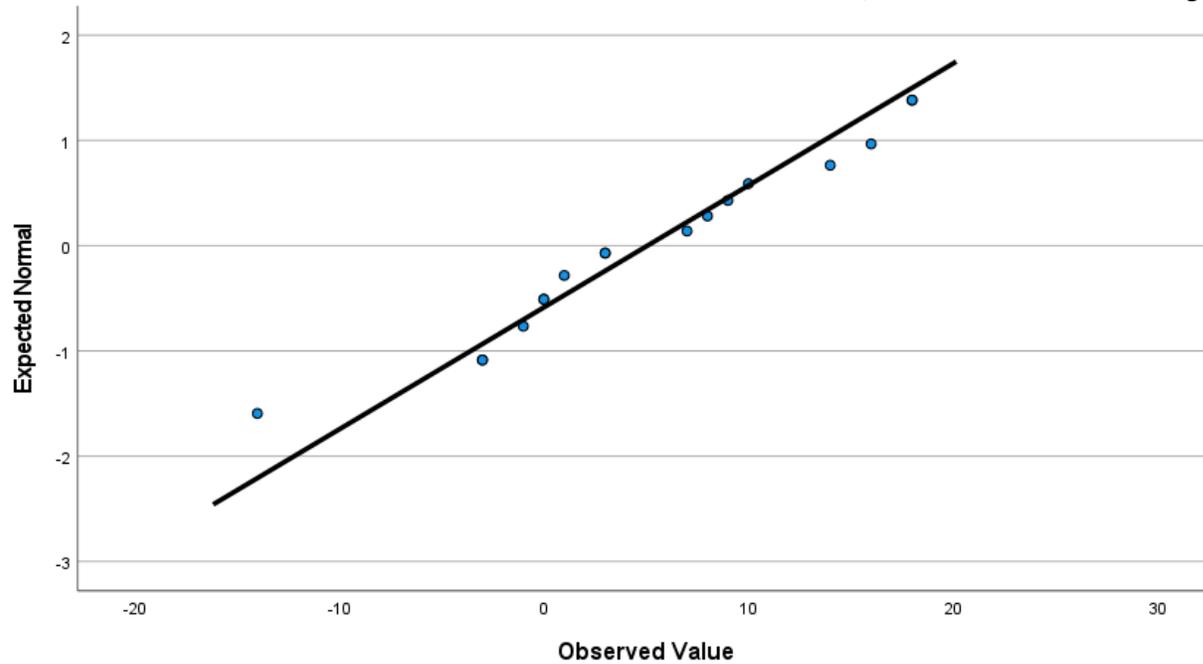
Normal Q-Q Plot of GainMCOP2   (Gain MCOP^2 Overall Mean)