Reconciliation of the 9 and 7 Step Hypothesis Testing Procedures

Steps of the of 9 Step Procedure		Seven Step Procedure
I.	State the Research Question	Not part of the 7 Step Procedure
II.	Identify the …	
a.	Dependent Variable:	
b.	Criterion Measure:	
c.	Level of Data (Scale of Measurement):	
d.	Performance Criteria:	
III.	State the Null (H_0) and Hypothesis (H_1)	**I.** State the Null (H_0) and Hypothesis (H_1)
IV.	Select the Statistical Test and its RSD when H_0 is true	**III.** State the Test Statistic **IV.** State the RSD of the Test Statistic
V.	Define Type I and Type II Error Rates and the Consequences of each, Select α, and state the rejection rule for rejecting H_0	Not part of the 7 Step Procedure
a.	Type I Error and Consequences:	
b.	Type II Error and Consequences:	
c.	Type I Error Rate, α:	**II.** Type I Error Rate, α:
d.	Decision Rule: Reject H_0 if:	**V.** State the Decision Rule for Rejecting H_0
VI.	List, Validate and Check Off Underlying Assumptions	
VII.	Perform the Analysis	**VI.** Provide summary Calculations
a.	Graphic	
b.	Statistical Test and its p-value	
VIII.	State the conclusion relative to the Null Hypothesis (H_0):	**VII.** State the conclusion relative to the Null Hypothesis (H_0):
a.	Reject H_0 or Fail to Reject H_0 for each Hypothesis	**VII a.** Decision Reject or Fail to Reject
b.	p values (each Hypothesis):	**VII b.** p-value of test statistic
c.	WHSSETIT:	**VII c.** WHSSETIT
d.	Importance (Power if relevant) Calculations:	Not part of 7 step until 2 or more groups.
e.	Illustration (Graphic and Tabular result of key statistical values: Means Variances and n as a minimum):	Not part of 7 step until 2 or more groups.
f.	Appropriate Post-Hoc Analyses (Subgrouping information and provide Point and Interval Estimates as appropriate):	**VII d.** Appropriate Point Estimates **VII e.** Appopriate Interval Estimates
g.	Final Conclusions Related to the Statistical Hypotheses in This Set	
IX.	Interpretation of the Results in terms of the Research Question	