**Quantitative Analysis Report: Multiple Regression Assignment Instructions**

**Overview**

You will take part in several data analysis assignments in which you will develop a report using tables and figures from the IBM SPSS® output file of your results. Using the resources and readings provided, you will interpret these results and test the hypotheses and writeup these interpretations. As doctoral students, your assignments are expected to follow the principles of high-quality scientific standards and promote knowledge and understanding in the field of public administration. You should apply a rigorous and critical assessment of a body of theory and empirical research, articulating what is known about the phenomenon and ways to advance research about the topic under review. Research syntheses should identify significant variables, a systematic and reproducible search strategy, and a clear framework for studies included in the larger analysis.

**Instructions**

* Copy and paste all tables and figures into a Word document and format the results in **APA current edition**.
* Interpret your results.
* Final report should be formatted using **APA current edition**, and in a Word document.
* 4-5 double-spaced pages of content in length (not counting the title page or references).
* Manuscripts should not be written in first person (“I”).
* All material should be 12-point, Times New Roman type, double-spaced with margins of one inch.
* All manuscripts should be clearly and concisely written, with technical material set off. Please do not use jargon, slang, idioms, colloquialisms, or bureaucratese. Use acronyms sparingly and spell them out the first time you use them. Please do not construct acronyms from phrases you repeat frequently in the text.

This assignment uses the *Productivity. sav* dataset. Address the following research question using a multiple regression (MR) model. Provide all assumptions for the MR test:

*RQ 8: Is there a significant predictive relationship of employee productivity (productivity) from levels of Teamwork (teamwork), Technical Knowledge (jobknowl), Adequate Authority to do job well (jobauthr), Fair Treatment (wkrtrtmt), and Sick Days (wrkdyssk)?*

* H08: There is no statistically significant predictive relationship of employee productivity (*productivity*) from levels of Teamwork (*teamwork*), Technical Knowledge (*jobknowl*), Adequate Authority to do job well (*jobauthr*), Fair Treatment (*wkrtrtmt*), and Sick Days (*wrkdyssk*).
* Ha8: There is a statistically significant predictive relationship of employee productivity (*productivity*) from levels of Teamwork (*teamwork*), Technical Knowledge (*jobknowl*), Adequate Authority to do job well (*jobauthr*), Fair Treatment (*wkrtrtmt*), and Sick Days (*wrkdyssk*).

There are several assumptions for a multiple regression that must be met:

1. First, the dependent variable must be normally distributed. If not, it must be converted to z scores (see **Cronk: pp. 32 – 33**)
2. To test for normal distribution, run the Shapiro-Wilk test (Review **Read: Testing Normality of Dataset** found in the Learn items for this module: week.)
3. When you run the Multiple Regression, ensure you select options for multicollinearity and residual plots (see Cronk).

Note: Your assignment will be checked for originality via the Turnitin plagiarism tool.