

## **Graphics Development for the Self-efficacy Scale: A Study of Validity and Reliability**

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**KEYWORDS** Graphics Development. Graphics Development Qualification. Scale Development. Validity and Reliability

**ABSTRACT** Graphs are seen in various fields from engineering to education, they are used in many different kinds of areas for various aims. But in either learning or teaching and all the steps of education, graphs have to be structured properly according to various conditions. The objective of this study was to develop a reliable and valid scale to measure the competencies of graphics class students concerning their graphic developments. The draft scale was applied to students, who had taken graphics course. Primarily, it was conducted with a normal distribution analysis for reliability and validity of the scale. As a result of these processes, a valid and reliable measurement tool of three dimensions and forty-seven items were obtained. Since GDSSES analyzes the graphic competencies of people who have received a graphics course and helps identify the shortcomings in this topic, the scale can be used in various studies.