CONSTRUCTION OF ATTITUDE SCALE ON INDIAN TRAFFIC RULES

Ms. T. Vijaya Lakshmi
M. Ed Scholar, S. Veerasamy Chettiar College of Education, Puliangudi, Tirunelveli District

Dr. T. Ranjith Kumar
Assistant Professor, S. Veerasamy Chettiar College of Education, Puliangudi, Tirunelveli District

Abstract
        Traffic rules of the roads are both the laws and the informal rules that may have been developed over time to facilitate the orderly and timely flow of traffic. Even though there are number of rules available for traffic safety, still there is a lack in active followers. It is essential for a teacher who should know the traffic rules. Then only he / she will teach their students a safer road usage. The investigator intends to study the attitude over Indian traffic rules among B.Ed students, because today's students are the future teachers. So, the investigator constructs a tool to measure the attitude over Indian traffic rules. This article briefly explains the construction of attitude scale on Indian Traffic Rules. It also explains the procedures in item writing, pilot study, establishing validity and reliability, statistics used to select the appropriate items.
Key words: Attitude, Indian Traffic Rules

Introduction

        Traffic rules of the roads are both the laws and the informal rules that may have been developed over time to facilitate the orderly and timely flow of traffic. With the replacement of ancient horse driven carts with cars and trucks, the speed of the traffic increased paving way for the need of smooth roads and yet smoother traffic. So, to curb the need of the smoother traffic, some rules were devised to assure that the traffic runs smooth. Almost all of the roadways traffic rules are built with devices meant to control traffic. A person is supposed to be familiar (get through a written or oral test) with the traffic signs and symbols before acquiring a driving license in India. Traffic rules are made for avoiding the unwanted accidents in roads. These rules play a significant role in our traffic system. We must follow the traffic rules to maintain a smooth and sound traffic system. Following these rules may reduce so many road accidents. So everyone should follow the traffic rules and signs for safe and secure journey.

        Education about road safety is often provided in schools, colleges, workplaces, clubs and public places. However, there could be other ways to create mass awareness. According to a report published by the World Health Organization (2013), India has the highest number of road accidental deaths (105,725 people died on the road) in the world. It is essential for a teacher who should know the traffic rules. Then only he / she will teach their students about safer road usage. The attitude over the traffic rules should be measured to improve or to modify the existing traffic rules. So, the investigator wishes to construct a tool to measure the attitude towards Indian Traffic rules and it was aimed at the target group of B.Ed students.

Construction of the Tool

        The major steps followed in the construction of "*Attitude Scale on Indian Traffic Rules*" are described under difference heads.

I. Planning of the test

The attitude scale on Indian Traffic Rules was prepared by the investigator and guide aims at measuring the attitude towards Indian Traffic Rules among B.Ed students. Vast numbers of literature related to Indian Traffic Rules were collected to prepare items for the tool.

II. Item Writing

The important first step in the construction of any tool is writing of suitable items. After a thorough and careful study of the literature available, the investigator collected materials from books, journals, and prepared the items. In the initial stage 38 items were constructed covering of Indian Traffic Rules. The investigator showed the tool to two experts to verify the suitability of the items to the target students. They scrutinized the items and gave many suggestions. Based on their suggestions, some items were deleted and some items were modified. Thus, the investigator finally has 34 positive items, and it was translated into Tamil language too.

III. Pilot Study

A preliminary try out was made to find out the neatness and workability of the items. The difficulties in responding the items and rough estimate of the time limit for responding the item were noted. This step helped the investigator to modify certain technical terms, which were vague and questionable. For this purpose, the scale was given to some B.Ed students. The investigator framed the items on five point scale, namely strongly agree, agree, undecidable, disagree, strongly disagree. The B.Ed Students were instructed to select the best option against the statement by marking a ($\checkmark$) in the relevant column. For the items, a maximum score of 5 was given for strongly agree, 4 for agree, 3 for undecided, 2 for disagree and 1 for strongly disagree. For validating the preliminary draft of Attitude Scale on Indian Traffic Rules was given to 50 B.Ed college students.

Table 1 Number of students for pilot study

Sl. No.	Name of the College	No. of Sample
1.	S. Veerasamy Chettiar College of Education, Puliangudi.	50

IV. Validity

The correlation co-efficient for 34 items was calculated using Person Product Moment formula.

$$r = \frac{\sum(x-X)(y-Y)}{\sqrt{(x-X)^2 - (y-Y)^2}}$$

r = Co- efficient of correlation

X = Mean of raw score of higher secondary students

x = Raw score of higher secondary students response in each item

Y = Grand total of score by each item

y = Mean of grand total score by each item

The items which have the 'r' value greater than 0.26 were selected and all other items were rejected.

V. Reliability

The 34 items in the tool were divided into two equivalent half such as odd and even items and the two set of scores were correlated by using the Split-half method and the correlation co-efficient (r) was calculated. Then the reliability co-efficient (r') of the tool was estimated by using the Spearmen brown prophecy formula,

$$r' = \frac{2r}{1 + r}$$

r = Correlation co-efficient

r' = Reliability co-efficient of the tool

Thus the correlation co-efficient (r) and reliability co-efficient (r') were found to be 0.6082 and 0.7564 respectively.

VI. Framing of final draft

The items which have the 'r' value greater than 0.26 were selected and all other items were rejected. Thus the tool has 24 items and will be used for the data collection.

Conclusion

Attitude Scale on Indian Traffic Rules was constructed. As the reliability and validity are established, this tool will help the future researchers to measure the attitude towards the Indian Traffic Rules among B.Ed students.

References

1. Pathak, R.P. (2012). *Research in Education and Psychology*. New Delhi: Pearson Education.
2. http://www.indiandrivingschools.com/traffic-rules-in-india.php
3. http://www.mapsofindia.com/my-india/government/traffic-signs-and-road-safety
4. http://www.trafficsigns.co.in/