

# Measuring validity and reliability of perception of online collaborative learning questionnaire using rasch model

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## Abstract

This study aims to generate empirical evidence on the validity and reliability of Perception of Online Collaborative Learning Questionnaire (POCLQ) using Rasch model. The questionnaire was distributed to 32 (N=32) Diploma Hotel Catering students from Politeknik Ibrahim Sultan, Johor (PIS). Data obtained was analysed using WINSTEP version 3.68 software. The finding showed that POCLQ had high reliability with five categories of difficulties items. So, it can be concluded that POCLQ is reliable and strongly accepted. Meanwhile, analysis of items fit showed there were six items that are not in the specified range and based on standardised residual correlation measurement value; there were five items found to be overlapped that should be dropped. All the items that needed to be dropped based on the analysis of result had been refined and retained for the purpose of the study and based on expert's view. Therefore, all items remained after Rasch analysis. It is hoped that this study will give emphasis to other researchers about the importance of analysing items to ensure the quality of an instrument being developed.

## keywords

- Instrument reliability
- Instrument validity
- Online project based collaborative learning
- Rasch model
- Soft skills

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