Protocol for the Evaluation of Tests, Scales and Questionnaires (PETEYC)

English Version: PETEYC_E

Description of the tool

The Protocol for the Evaluation of Tests, Scales and Questionnaires (PETEYC) is designed to identify potential weaknesses and limitations in instruments for evaluating psychological and educational variables. The purpose of PETEYC is to guide researchers and professionals in the process of creating and validating assessment instruments, and to provide relevant information to enhance the quality of these instruments.

PETEYC consists of a set of questions designed to evaluate the process followed for the development   and validation of tests, scales, and questionnaires. The researcher or professional will find, based on their responses to the questions, it provides insights into   the quality of   evidence collected regarding   the instrument's usefulness, as well as indications, suggestions, and materials that will help for possible plan improvements. The evaluation carried out through PETEYC is based on the analysis of compliance with a set of criteria and requirements, established from a process based on two sources of information: a review of the available literature and information provided by a group of experts in psychometric and specific areas.

In order to extend the application of the tool to professionals with different needs, PETEYC is composed of several documents that can be used individually or in a complementary manner. The documents are as follows:

1. PETEYC_E: Main document that contains the English version of the questions that researchers and practitioners should use to guide the analysis of the intended purpose of the assessment instrument. The document includes instructions for

users that will facilitate the application of the tool. Based on the answers, the PETEYC_E user will receive information to facilitate the planning of the next steps in working with the instrument. In cases where PETEYC_E wants to be used to make a request for services to the responsible company, the answers to the questions will be made through the PETEYC_E Platform (described in section 4).

2. PETEYC_E Manual: Describes the specific criteria used to determine whether the evidence collected to assess how the target instrument is working and to respond to each PETEYC_E question is adequate and sufficient to support the intended use of the test. The PETEYC_E user will be able to determine, depending on the situation, whether the instrument meets the necessary requirements to be able to be used in the intended context. Areas requiring further development will be identified. The procedure used to determine these criteria is described in detail in the manual.

3. Processing Tool (PROC_PETEYC_E): This is a tool to calculate a total score that reflects, in a range of 0 to 100, the extent to which sufficient evidence has been provided to support the utility of the instrument for its intended purpose. PROC_PETEYC_E also allows us to identify those areas that are weaker and that could be worked on in order to collect additional evidence. PROC_PETEYC_E has been created based on an evaluation carried out by experts in psychometrics and in different areas related to psychological and educational assessment. All information about the creation of PROC_PETEYC_E is available in Benítez and Govorova (in preparation). The user manual described above lists the steps required to apply PROC_PETEYC_E.

4. PETEYC Platform: It is a tool that aims to respond to requests from researchers and professionals who wish to hire the services of the company *2E- Studies and*

Evaluations to carry out tasks related to the analysis of the evaluation instruments, such as the administration of PETEYC_E and the issuance of a certificate, or fieldwork that collects additional evidence on the usefulness of the evaluation instrument. Users of the platform will receive a detailed report presenting the evaluation of the instrument using PETEYC_E. This report will include the identification of those elements that should be addressed in order to improve the instrument and possible suggestions to guide the necessary processes, as well as the services that the company *2E-Studies and Evaluations* could offer to respond to the needs described.

PETEYC_E, the manual and PROC_PETEYC_E are open access documents that are available to researchers and practitioners and can be used by referring to the authorship of the tool where appropriate.

The PETEYC platform is a tool which purpose is to establish direct contact with the company *2E-Studies and Evaluations* and, therefore, it is aimed only at people interested in contracting any of the available services related to PETEYC_E.