

# Basic Psychometrics for Health Professions Education

## Description

This workshop aims to develop understanding of basic psychometric principles and item analysis in health professions education, and the ability to apply these to your own test settings and test items analysis.

Assessment principles governing test assembly, validity and reliability will be reviewed. In addition, parameters used in basic post-hoc test item analysis such as difficulty index, discrimination, correlation, distractor analysis and reliability will be introduced and demonstrated for assessment items commonly used in clinical education like MCQs and OSCEs.

This workshop was previously titled “Assessment Principles and Item Analysis”.

## Duration

0.5 Day (4 hours)

## Programme Content

This Programme will cover the following topics:

1. Introduction to Assessment Principles and Item Analysis;
2. Fundamentals of Test Assembly;
3. Selection type test – Step-by-step work-through of MCQ analysis; and
4. Supply type test – Step-by-step work-through of OSCE analysis with classical technique.

## Target Audience

Clinical Educators and Clinical Teachers, including APDs, CCFMs, Clinical Instructors, Subject Leads and Preceptors, from all healthcare professions education who are conducting assessments.

Prospective participants should have some prior experience in conducting assessment in health professions education. Participants will be given opportunity to discuss item analysis queries or data set encountered in their own practice. Participants may elect to perform simple statistical analysis at this programme with provided dataset.

## Learning Outcomes

At the end of the programme, participants will be able to:

1. Understand and review psychometric theories and elements of item analysis; and
2. Interpret data of item analysis.

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## Methodology

Methodologies used will include:

- Lectures;
- Mini-didactic presentations;
- Small group exercises; and
- Skills practice.

## Training Capacity

20 participants per run

## About the Organiser

Officially established on 19 July 2002, the National Healthcare Group (NHG) College plays an instrumental role in facilitating the continuous learning and development of our workforce, as well as, promoting systems improvement and driving leadership development in NHG. NHG College collaborates with renowned institutions and industry partners to build the pipeline and collective capacities of our leaders, educators, healthcare professionals and staff to support NHG in serving and managing the health of our patients and the population.