



Psychometrics 101 for RT Educators

At the conclusion of this presentation, participants will be able to explain and apply the following key concepts:

1. Reliability

Are scores consistent enough?

- Reliable exams produce reasonably stable results under similar conditions.

2. Validity

Can we use this score for this decision?

- Validity asks whether the exam measures the knowledge, skills, and judgment required for entry-level practice.

3. Passing Standards

The passing score is not an arbitrary percentage.

- Subject matter experts (SMEs) define the performance expected of a minimally competent entry-level technologist and establish the passing standard through a structured process.

4. Security Supports Fairness

Secure questions are not released because score meaning must be protected.

Educators should use:

Content Specifications
Practice Analysis Reports
Task Inventories
Clinical Experience Requirements

Instead of trying to obtain operational exam questions.

Putting It into Practice

Participants will be encouraged to identify one action they can implement such as:

- Comparing one course to the Content Specifications.
- Review one local exam for unclear questions.
- Use score reports to guide remediation.
- Ask students to explain their clinical reasoning out loud.

Key Takeaway

Psychometrics helps ensure that when we say someone is ready to practice, that decision is fair, evidence-based, and defensible.