CHAPTER 1

The Role of Assessment in Instruction

“We’re having a test in school tomorrow, and there’s no way I can pass it …Absolutely no way!”

—CHARLIE BROWN, PEANUTS (1968)

Teachers make decisions about students—decisions that have serious effects on students' lives. In order to have confidence that the decisions they make are fair, teachers must base them on information that is valid and reliable.

Assessment is the systematic process of collecting and interpreting information to make decisions about students. High-quality assessments not only provide valid and reliable information about student achievement, they also assist educators to determine the effectiveness of their instructional strategies. The higher the quality of the information you collect, the higher your confidence level will be when you are making important decisions about students, and the better you will sleep at night!

The Process of Assessment

All assessments begin with a purpose. Classroom assessment is a formal process that involves a deliberate effort to gain information about a student's status in relation to course content and objectives. This process includes a wide range of procedures and has the ultimate goal of obtaining valid and reliable information on which to base educational decisions.

In 1999, Brookhart identified planning, teaching, and assessment as the three interactive components of educational instruction. Planning involves the establishment of instructional objectives and learning outcomes, which leads to decisions about the types of learning activities that will enable students to successfully achieve the required outcomes. The desired learning outcomes and instructional activities then guide the assessment techniques. Finally, the assessment results...
direct, and even modify, the teaching approach. **Exhibit 1.1** illustrates this relationship, which Brookhart (1999) describes as effective when the assessment instruments provide accurate, meaningful, and appropriate information.

While the main goal of classroom assessment is to obtain valid and reliable information about student achievement, assessment procedures also assist in appraising the effectiveness of the instruction. A well-designed assessment plan helps you to optimize your teaching by identifying your own strengths and weaknesses. The results of a classroom test based on such a plan provide answers to the following questions:

- What is the level of the students’ achievement?
- Are the course objectives realistic?
- Is the difficulty level of the content appropriate?
- Are the instructional methods effective?
- How well are the learning experiences sequenced?

In addition to being the primary indicator of student achievement and the effectiveness of an educational program, student assessment is also an integral part of the learning process. Effective assessment is a continuous process, which provides valuable feedback for students, thus reinforcing successful learning and offering information about further learning needs. While a poorly designed assessment interferes with learning, assessment that is well designed not only promotes learning, but also enhances teaching by assisting both the student in learning and the teacher in teaching (Miller, Linn, & Gronlund, 2009). Well-developed classroom
assessments contribute to effective student learning by helping students identify their strengths and weaknesses to guide their future study.

You probably have heard a student say, “There is no way I can pass this test.” If students believe that, no matter what they do, they will not be able to pass their classroom exams, their self-confidence is undermined. When tests are perceived as unfair or too difficult, many students protect their self-esteem by giving up rather than failing repeatedly. Educators can counteract this syndrome by ensuring that students have a clear understanding of what is expected of them to demonstrate success, providing them with learning opportunities to achieve the expectations, informing them of how their learning will be assessed, and providing them with feedback to guide future learning.

**Ethical Responsibilities**

Educators have an ethical responsibility every time they assess students. Nurse educators also have a responsibility to the healthcare consumers whose care will be entrusted to the students who graduate and enter nursing practice. It is therefore imperative that your assessments be trustworthy so that you obtain high-quality information. While you may not be happy about some of the decisions you have to make, you will be comfortable with those decisions if they are based on trustworthy assessment instruments.

Teacher-made tests play a central role in student assessment. In light of the influence that decisions based on these tests have on the lives of students, elaborate care must be taken when testing and grading. Fundamental to the development of valid assessments is the recognition that classroom test preparation deserves the same priority as the preparation of classroom instruction. Consider the amount of group effort invested in the development of a course in a nursing program. Endless meetings and discussions are held to write objectives and content outlines and to plan learning activities. Yet, test development is often a solitary process, with individual faculty members contributing pieces to the final product, without seeing the whole picture until the test is completed.

What Clements and MacDonald identified in 1966 stills holds true today: Ethical responsibility for student assessment requires teachers to ensure that each assessment tool

- is appropriately designed, and
- actually measures what it claims to measure

In addition, Clements and MacDonald pointed out that when interpreting the results of assessment instruments, teachers must seriously consider the following:

- Emotional and social impact on students
- Consequences of the evaluation on a student's academic life

**Assessment and Self-Efficacy**

One of the most important responsibilities of a teacher is to assist students to maximize their success and to promote every student's self-efficacy. To promote
self-efficacy, which can be described as the “I can do it” attitude, teachers need to believe that every student can be successful. Admission to a nursing program is certainly a selective process, and every admitted student has the potential for success. It is the obligation of the program's faculty to assist every student in becoming successful.

In the process of promoting student self-efficacy, it is important to remember that a student's sense of accomplishment is diminished if a task is too easy and is defeated if a task is too hard. When tests are perceived as trivial, students perceive school work as trivial and can adopt the attitude that the process of learning is one of passive recall. We cannot expect students to be successful, to have the “I can do it” attitude on high-stakes examinations such as the National Council Licensure Examination (NCLEX), if they are accustomed to taking poorly constructed classroom exams that are perceived as too easy or too difficult.

It is unrealistic to believe that a post-program review course can teach students to be successful on a national examination. The best approach for fostering a realistic sense of self-efficacy is to expose students throughout their entire nursing program to well-constructed tests that require them to think critically and to apply their acquired knowledge.

How many exams do students take over the course of a nursing program—20, 30, 40? It is certainly not unusual for students to answer more than 2,000 multiple-choice items during a nursing program. By presenting them with well-written exams that assess higher-order thinking, nursing programs can challenge students' critical thinking ability and provide them with the best preparation for passing NCLEX. Chapter 10, “Preparing Students for the Licensure Examination: The Importance of NCLEX,” offers suggestions for increasing your students' self-confidence.

Assessment Inadequacy

Although most teachers recognize and strive to fulfill their assessment role, many experience conflict originating from feelings of inadequacy. These feelings of assessment inadequacy are understandable. While assessment is integral to instruction and learning, classroom assessment and grading are generally acknowledged as the weak links in modern education. Despite the widespread use of classroom achievement tests and the important role they play in the instructional process, teachers of all disciplines, at every level of education, lack the understanding of assessment methods. Surveys of teacher preparation (National Council of State Boards of Nursing (NCSBN), 2008; Penn, Wilson, & Rosseter, 2008; Schoening, 2009; VanBever Wilson, 2010) report that teachers are often ill prepared in the development and use of classroom assessments. Despite the fact that classroom assessment is an integral part of a teacher's responsibility, many have not received the basic instruction in the process of assessment and grading that is necessary for fair student evaluation (Schoening, 2009).

Nursing education is facing a particular dilemma with the assessment competency of faculty. In 1980, Fitzpatrick and Heller identified that the number of nurse educators with the necessary preparation in education was dwindling. That trend has continued for more than 30 years. In fact, the National League for Nursing (NLN, 2012) documented that while we need to substantially increase enrollment in
nursing programs to meet future healthcare needs, we are facing a serious shortfall of nurse educators if we do not increase opportunities for nurses to prepare for the nurse educator role. In fact, the NLN’s 2006 faculty census survey identified that the nursing faculty shortage was steadily increasing. Based on the survey results, the NLN estimates that in 2006 there were 1,390 budgeted, but unfilled full-time positions nationwide (2010). In 2012, the American Association of Colleges of Nursing (AACN) also identified that, despite the nursing shortage, qualified applicants are being denied admission to nursing programs because there is a shortage of nursing faculty.

Data from the NLN survey (2010) shows that the percentage of full-time nursing faculty who hold earned doctorates has decreased since 2002. Because of the growing shortage of qualified nurse educators, expert clinicians, rather than educators, are increasingly filling nurse faculty positions. Although these faculty members have valuable clinical expertise, the role of nurse educator requires specialized knowledge and preparation.

The NLN has taken the lead in disseminating information and designing strategies to deal with the growing national shortage of nursing faculty who are prepared for the educational role. In a 2002 position paper, the NLN concluded that the role of nurse educator requires specialized preparation and recommended several strategies to deal with the problem (pp. 3–4). An NLN recommendation that is particularly pertinent to the discussions in this book is as follows:

Schools of nursing should support lifelong learning activities that help educators maintain and expand their expertise in teaching and education as well as their clinical competence and their scholarly skills (2002, p. 4).

The NLN, taking action on its own recommendation, has developed a variety of resources to enhance the educational expertise of nursing faculty. A number of continuing education offerings are available through the NLN website. The NLN also encourages continuous quality improvement by recognizing nursing programs that are committed to improving the educational environment. Each year the NLN Centers of Excellence in Nursing Education Program publicly acknowledges programs that excel in one of three areas:

1. Enhancing student learning and professional development
2. Promoting the pedagogical expertise of faculty
3. Advancing the science of nursing education

Recognizing the need for expertise in the nurse educator role, the NLN also sponsors a certification program for nurse educators. The certified nurse educator (CNE) examination is based on the Core Competencies of Nurse Educators (NLN, 2012) and is administered as a prerequisite for CNE certification. The NLN provides a range of opportunities to help nursing faculty continuously improve their proficiency in the role of educator. Visit their website, (http://www.nln.org) frequently to keep up-to-date on what is being offered.

The AACN is also taking a proactive approach to the shortage of nursing faculty. One strategic goal of the AACN, as stated on their website (http://www.aacn.
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The AACN website includes a faculty link that is an information clearinghouse to help nurse educators locate faculty development programs and financial aid opportunities. The link also features a comprehensive list of available nurse faculty positions in colleges and universities in the United States (AACN, 2012).

Assessment Competency Standards

As public and professional awareness of the need for assessment competence increases, several professional organizations have developed standards to provide guidelines for the assessment skills that educators should possess. The 1999 edition of The Standards for Educational and Psychological Testing was jointly developed by the American Educational Research Association, the American Psychological Association, and the National Council on Measurement in Education (NCME). The intent of this document is to “promote the sound and ethical use of tests and to provide a basis for evaluating the quality of testing practices” (p. 1). These standards represent a consensus on the skills required of teachers that enable them to use educational and psychological tests appropriately. An ad hoc committee of the NCME published the Code of Professional Responsibilities in Educational Measurement in 1995 to “promote professionally responsible practice in educational measurement” (p. 2). Both documents provide valuable guidelines for fair and ethical assessment in higher education.

The Standards for Teacher Competence in Educational Assessment of Students was jointly developed by the American Federation of Teachers (AFT), the NCME, and the National Education Association (1990). This collaboration between teaching and measurement specialists defined seven assessment competencies that are critical to the role of educator (Table 1.1). Although these standards were specifically written for K–12 classroom teachers, they provide a discussion model for professional competence and fairness in assessment in higher education (Brookhart, 1999).

Unfortunately, the assessment abilities of many teachers are often inconsistent with the standards adopted by professional organizations. The assessment content presented in this book is consistent with the most current professional standards and provides you with a foundation for achieving competence, or improving your abilities, in student assessment.

Need for a Systematic Approach to Assessment

A systematic plan is defined as a procedure that is based on a coordinated method. It ensures that no steps are omitted from a process. The only way to ensure that all steps are completed in a complicated process is to follow a system. The nursing process provides an example of a systematic method applied to a complex process. Certainly, there is no process more complex than the practice of nursing. Widely adopted by the profession, particularly in nursing education, the nursing process provides a systematic approach that ensures the comprehensive application of nursing care.
A comprehensive assessment plan involves several interacting processes. To maintain the plan's integrity, a methodical procedure, which is based on the principles of assessment, must be designed and adhered to. In fact, having a defined methodology not only ensures that all steps are followed; it also ensures that objectivity is maintained throughout the assessment process. In fact, following a systematic procedure for each component of the overall plan ensures that your assessment plan is both comprehensive and objective. This book is designed to help you develop a system that will streamline every aspect of your assessment plan. The guidelines ensure that your plan is practical, comprehensive, and grounded in the principles of sound assessment.

### Assessment Instruments

As defined in Standard One of the Standards for Teacher Competence in Educational Assessment of Students (1990), when planning assessment strategies it is important that you choose the assessment technique appropriate for the particular behavior being assessed. Brookhart (1999) describes the following four categories of assessment instruments:

1. Paper-and-pencil (or computer-administered)
2. Performance assessments
3. Oral presentations
4. Portfolio assessment

A multidimensional approach is essential to assess all aspects of a behavior. This is especially true when assessing psychomotor skills, affective behavior, or...
higher-level cognitive ability such as critical thinking. For a variety of reasons, teacher-made multiple-choice paper-and-pencil classroom tests are widely used in all educational settings, particularly in nursing education. This edition of the book evolved from the first and second editions, and so it focuses on the role of the multiple-choice format for classroom tests and elaborates on suggestions for constructing measurement instruments in several formats that were introduced in the second edition. This book provides you with strategies for developing well-constructed classroom exams in a variety of formats that provide valid and reliable results.

Summary
Assessment is fundamental to the instructional process. However, the assessment part of the instructional process often does not receive the attention it deserves. There are several reasons for this, but the most important one is the need for faculty to recognize the integral role of assessment in the instructional process. This book is designed to help you to develop a systematic plan for assessment of learning outcomes. It provides a review of the theories and principles of assessment. Assessment issues are addressed and practical guidelines are presented to assist you in developing classroom exams that reflect the standards of assessment competence. The information presented in the following chapters will assist you to improve your overall assessment program, whatever assessment format you choose to implement.

Learning Activities
1. Consider an assessment program that you have experience with and describe an actual or potential ethical conflict associated with that program.
2. How does the “I can do it” attitude influence a student's success on both classroom and standardized exams? How can you promote the “I can do it” attitude in the classroom and clinical settings?
3. Review the Standards for Teacher Competence in the Educational Assessment of Students (Table 1.1). How do these standards apply to classroom and clinical assessment in nursing education?

Web Links
American Association of Colleges of Nursing
http://www.aacn.nche.edu
American Educational Research Association
http://www.aera.net
American Federation of Teachers
http://www.aft.org
American Psychological Association
http://www.apa.org
Assessment: Bridging the gap between teaching and learning for all students
http://www.calstat.org/assessment/
Association for the Assessment of Learning in Higher Education
http://aalhe.org/
Carnegie Mellon: Enhancing Education - Assessment
http://www.cmu.edu/teaching/assessment/index.html
Discovery Educator Network: Assessment
http://blog.discoveryeducation.com/blog/category/assessment/
Educational Resource Information Center
http://www.eric.ed.gov
Internet Resources for Assessment in Higher Education
http://www2.acs.ncsu.edu/upa/assmt/resource.htm
National Council on Measurement in Education
http://www.ncme.org
National Council of State Boards of Nursing
http://www.ncsbn.org
National League for Nursing
http://www.nln.org
Nurse Educator Assessment Continuing Education
http://www.nurseeducatorace.com
Standards for Teacher Competence in Educational Assessment of Students
http://www.behavioralinstitute.org/FreeDownloads/Assessment/Teacher%20standards%20for%20assessment.pdf

References

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