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 have to make decisions about students, decisions that affect student lives. Good decisions are based on good information. Assessment is the systematic process of collecting and interpreting information to make decisions about students. High-quality assessments not only provide valuable 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 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.

Planning, teaching, and assessment are the three interactive components of educational instruction (Brookhart, 1999). 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.
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Figure 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?
- Are the instructional methods appropriate?
- 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 poorly designed assessment is at odds 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 (Mehrens & Lehmann, 1991). Well-developed classroom assessments contribute to effective student learning by helping students identify their strengths and weaknesses to guide their future study.

If students believe that no matter what they do they will not be able to pass classroom exams, their self-confidence is undermined. You probably have heard a student say, “There is no way I can pass this test.” When tests are perceived as unfair or too difficult,
many students protect their self-esteem by giving up rather than fail 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, and then informing them of how their learning will be assessed.

**Ethical Responsibility**

Educators have an ethical responsibility every time they assess students. In addition to having an ethical responsibility to students, nurse educators have a responsibility to the health care consumers whose care will be entrusted to the students who graduate and enter nursing practice. It is therefore imperative that assessments be trustworthy and that you obtain high-quality information. While you may not like 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. As Clements and MacDonald (1966) explain, ethical responsibility for student assessment requires teachers to ensure that each assessment tool:

- Is appropriately designed
- Actually measures what it claims to measure

In addition, Clements and MacDonald point 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 (Haladyna, 1999). 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 (Haladyna, 1999). 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 11, “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 lack the understanding of assessment methods. Surveys of teacher preparation (Impara, 1995; Stiggins, 1999) 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 (Haladyna, 1997).

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 25 years. In fact, the National League for Nursing (NLN) documented that while we need to substantially increase enrollment in nursing programs to meet future health care 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 (2002). In fact, the NLN’s 2006 faculty census survey identified that the nursing faculty shortage has increased since 2002. Based on the survey results, the NLN estimates that there are 1,390 budgeted, unfilled full-time positions nationwide. The American Association of Colleges of Nursing (AACN) identified that, despite the nursing shortage, qualified applicants are being denied admission to nursing programs because there is a shortage of nursing faculty (2005c).

Data from the NLN survey (2006) shows that the percent 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 (Choudhry, 1992; Davis, Dearman, Schwab & Kitchens, 1992; DeYoung & Beshore-Bliss, 1995; NLN, 2002; Tanner, 2005b; Tanner, 2006a).

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 (2002, 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 was developed based on the Core Competencies of Nurse Educators (NLN, 2005) 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 at 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 (2005b) is to “Institute innovative strategies to recruit a highly qualified and diverse nursing workforce, including faculty, sufficient to meet societal needs.” The AACN website (www.aacn.nche.edu) 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 the most comprehensive list of available nurse faculty positions in colleges and universities in the United States (AACN, 2005a).

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 most recent
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The 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” (1999, p. 1). These standards represent a consensus on the skills required of teachers that enable them to appropriately 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 (Impara, 1995). 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.

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<th>Table 1.1  Standards for Teacher Competence in Educational Assessment of Students</th>
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<td>Teachers should be skilled in:</td>
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<tr>
<td>1. Choosing assessment methods appropriate for instructional decisions.</td>
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<td>2. Developing assessment methods appropriate for instructional decisions.</td>
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<td>3. Administering, scoring, and interpreting the results of both externally produced and teacher-produced assessment methods.</td>
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<td>4. Using assessment results when making decisions about individual students, planning teaching, developing curriculum, and school improvement.</td>
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<td>5. Developing valid pupil grading procedures which use pupil assessments.</td>
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<td>6. Communicating assessment results to students, parents, other lay audiences, and other educators.</td>
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<td>7. Recognizing unethical, illegal, and otherwise inappropriate assessment methods and uses of assessment information.</td>
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The 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 followed. 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 tests (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, multiple-choice paper-and-pencil classroom tests, teacher made, are widely used in all educational settings, particularly in nursing education. While this edition of the book evolved from the first edition, which focused on the role of the multiple-choice format for classroom tests, chapters are included here to expand on the first edition. This edition includes suggestions for constructing measurement instruments in a variety of formats. This book provides you with strategies to develop 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.