Assessment and evaluation
What do the terms really mean?

In various settings, academic librarians are discussing assessment and eager to play a leadership role in their organizations and institutions. Much of what they present as assessment in fact appears to be evaluation. Complicating matters, many definitions of assessment actually incorporate the word evaluate.

Assessment is a type of evaluation that gathers evidence perhaps from the application of evaluation research. The purpose of assessment or evaluation is either accountability or service/program improvement. Both terms actually portray accountability and improvement differently.

Assessment
Stakeholders interested in higher education, such as national, regional, and program accrediting organizations, define institutional effectiveness as the ability of an institution to meet its stated mission and to engage a campus community collectively in a systematic and continuing process to create shared learning goals and to enhance learning.¹ They view such effectiveness in terms of the contribution that each of the institution’s programs and services makes toward achieving the goals of the institution as a whole.² They see institutional effectiveness as creating a culture that addresses:

- infrastructure support (e.g., sufficient human, physical, and financial resources to support educational programs and to facilitate student achievement of learning goals);
- output (how much is accomplished);
- student outcomes (public accountability); and
- student learning outcomes (improvements of academic quality).

Student outcomes comprise metrics that characterize effectiveness as a function of, for instance, graduation, persistence, retention, admissions yield, and employment rates. Student outcomes are also concerned with issues of affordability. Such metrics might be used for drawing comparisons (benchmarking) with peer institutions. Student learning outcomes, which represent a type of impact assessment, apply to learning and are statements of what students are expected to know and be able to do by the time they graduate.

Further, they provide a basis to view and to improve learning. Among the four areas of effectiveness, accrediting organizations view student learning outcomes as the most important. This does not mean that the other areas are unimportant. Other stakeholders might have different priorities.

Assessment centers on learning goals put forth at the course, program, discipline, division, or institutional level. In their courses, faculty should observe and measure as feasible student learning and try to enrich that experience.³ Accrediting organizations and some other stakeholders, on the other hand, are most interested in the program or institutional levels. Assessment determines how well programs accomplish their educational mission, demonstrate learning over the
duration of a program, and use the evidence gathered to improve teaching and learning. Learning is defined as not only knowledge leading to understanding but also abilities, habits of mind, ways of knowing, attitudes, values, and other dispositions that an institution and its programs and services assert they develop.

Those engaged in teaching students—be they teaching faculty or librarians—need to agree on learning goals for all students in a program, how to gather relevant evidence of learning, and apply that evidence to any part of the program in need of improvement. Assessment is therefore based on feedback that students provide that can be used to analyze and correct a program’s educational planning and execution.

That feedback might be based on artifacts that enable a program to see actual evidence of learning (direct methods) or on perceptions about what students think they learned and about the expectations (indirect methods).

The Middle States Commission on Higher Education, which maintains that learning can occur outside the classroom, encourages learning goals that ingrate curricular and co-curricular facets of the institution. Where information literacy is a co-curricular facet, it requires linkage to a program’s learning goals. The Middle States and other accrediting organizations emphasize the importance of integrating assessment into the institutional culture and developing assessment plans that seek to achieve learning goals.

### Evaluation

Evaluation at the course level involves judging the extent to which students grasp course content. Such judgments involve the assignment of grades; grades are determined by students’ ability to master the content of a course, not by any larger assessment of what

#### A few good sources

The Middle States Commission on Higher Education has produced two handbooks, **Student Learning Assessment: Options and Resources** (2nd edition, 2007) and **Developing Research & Communication Skills: Guidelines for Information Literacy in the Curriculum** (2003). For PDF files, see www.msche.org/publications_view.asp?idPublicationType=5&txtpublicationType=Guidelines+for+Institutional+Improvement.

Linda Suskie wrote **Assessing Student Learning** (Anker Publishing, 2004), which complements the rst handbook. She links student learning assessment to the planning process and different methods for gathering and applying evidence about student performance.

The Council for the Advancement of Standards in Higher Education (CAS) promotes standards in student affairs, student services, and student development programs. It offers various resources related to student learning assessment (www.cas.edu).

Stylus Publishing has produced a number of works related to assessment. Examples include **Assessing for Learning** (Peggy Maki, 2004) as well as works on rubrics and e-portfolios.


Finally, Sage Publications has an excellent book series on research methods, statistics, and evaluation (www.sagepub.com/home.nav?display=catcatLevel1=&prodTypes=any&level1=Course1007&crtTree=Courses&_requestid=1570471).
has changed in the students' understanding, attitudes, or perspectives. In an organizational setting, evaluation provides evidence to distinguish between effective/efficient and ineffective/inefficient programs, services, and policies, and to address questions such as:

What improvements in a program, service, or policy might result in continuous quality improvement and better accountability?

How well does a program, service, or policy reach its target population and meet the group's information needs and expectations?

Is the program, service, or policy being implemented in the ways envisioned?

Is the program, service, or policy effective and efficient?

Evaluation is also a political and managerial activity, which provides insights for making policy decisions and resource allocations.

More on assessment

Institutions often deploy a hierarchical framework with horizontal and vertical components to plan, gather, analyze, and report information, and to make changes to institutional and educational learning goals, as part of their effort to demonstrate accountability through assessment. When educators craft goals that represent the taxonomy of learning developed by Benjamin S. Bloom, they are challenged to consider and state explicitly what impact programs should have on students and their ability to analyze, apply, comprehend, demonstrate, and synthesize.

Assessment in the form of student learning outcomes is formative and seeks to improve the educational experience for current and future students. At the course level, individual faculty might use the one-minute paper, which asks students to reflect on what was covered in class that day and to suggest aspects that they still do not understand. At the start of the next class, those aspects are revisited. Assessment at the course level, therefore, is formative and evaluation is summative.

When viewed at the program level, all of those engaged in formal classroom teaching might agree on a scoring rubric that divides a learning outcome into categories that vary along a continuum for the purpose of improving feedback on student performance and identify areas for student improvement. That continuum presents levels of achievement in some detail, and a rubric might be used across programs and perhaps for an entire discipline.

Finally at the institutional level, evidence is gathered from a sample of students to represent the student body in general and to demonstrate whether there is a progression in student learning.

Conclusion

Understanding the language differentiating assessment and evaluation is necessary to ensure appropriate planning, measurement, and analysis as well as the preparation of a meaningful self-study report for the accreditation organization. Advancing student learning is a core purpose of higher education, and assessment examines educational quality in terms of how well institutions achieve their declared mission relative to student learning. Everyone involved directly in teaching students has a stake in shaping program and institutional plans on assessment.

As institutional researchers and faculty evaluate different methodologies for gathering evidence and consider research designs involving the use of sampling (e.g., probability and nonprobability), experimental designs, and inferential statistics, librarians should join them in making sure the library is an integral, educational partner. To do so, they need to understand and be able to conduct evaluation research as an inquiry process.

Complicating matters, schools of library and information science often do not require courses on research and evaluation, let alone assessment, as part of the core
Students might encounter coverage of evaluation, and perhaps even assessment, in an elective course.

Professional associations and libraries themselves often do not offer workshops on research as a process of formal inquiry or evaluation as applied to assessment. To us, this is a failure of the profession— one that can and should be rectified through joint efforts.

**Notes**

2. Ibid., 75.
3. Measure is not necessarily the same as countable.
5. Student Learning Assessment, 6.