

Reference Evaluation: A Three-Step Approach—Surveys, Unobtrusive Observations, and Focus Groups

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Traditional reference service, where the librarian gives the patron the right or wrong answer to a question, has slowly begun to change. With the emergence of electronic resources, digitalization, Web resources, and full text, many students need more of a consultation on where to get started than on which option is correct. Librarians at the University of Arizona Libraries strive to help students gain user sufficiency and information literacy. When on the reference desk, they tend to teach rather than do the work for the students. As the libraries are customer centered, it was decided to conduct an evaluation of its reference services. The evaluation involved using a combination of surveys, focus groups, and unobtrusive observation worksheets with a small sample of students. The results were very meaningful.



The University of Arizona is a team-based learning organization. There are no reference, cataloging, and acquisition departments but, rather, teams such as the Social Sciences Team, the Science-Engineering Team, and the Undergraduate Services Team. The Undergraduate Services Team is in charge of coordinating and evaluating the public service desks in the main and science-engineering libraries. During the spring of 1998, this team decided to do an in-depth reference evaluation of the main and science reference desks, which was coordinated by the author of this article. At these reference desks are representatives from almost all the library teams, including a combination of librarians and staff members. There also are peer information counselors and library school students who

work on the desks at night and on weekends. Because they are not all librarians, these groups of people are referred to as *reference service providers*. Although they work during the day, evenings, and weekends, their hours are not consistent and there is always room to trade hours with others on a daily basis. The average reference service provider works four to six hours per week.

Problem

The major problem was to evaluate reference service providers who have very inconsistent schedules. Most reference service providers trade with each other pretty consistently; moreover, temporaries sometimes are hired as “fill in behind” to help librarians accomplish other strategic work. Just because an individual’s name is on the schedule does not mean

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he or she is going to work those hours. Another concern was that some reference service providers feel that “approachability” is the most important quality to have on the reference desk, and others think that the ability to answer questions correctly constitutes good service. But what do the students think? If a reference service provider does not answer a question correctly but is friendly, will the patron

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use the reference desk again? A third concern centered on the concept of “the correct answer.” With the wave of numerous electronic resources and endless choices, many students simply need ideas on how to get started rather than a yes or no answer. In this case, will the student be satisfied with reference service providers helping with information literacy skills, instead of just pointing out right or wrong answers?

Solution

It was going to be impossible to get individualized reference assessments, based on the average reference desk schedule. Therefore, before beginning the process, it was explained that reference service providers would be treated as one team. This model goes along with the library’s team-based environment and allowed the Undergraduate Service Team not to overgeneralize a specific person’s performance. Any training afterwards would be given to all reference service providers. The team also decided to combine various qualitative methods in order to obtain both general information (surveys) and specific information (unobtrusive observation and focus groups). In addition, the team wanted to have a chance to follow up on participant questions or thoughts that needed clarification. Therefore, the reference evaluation consisted of

three steps: a survey for demographic information, an unobtrusive observation to get feedback immediately after the reference transaction, and a focus group session to obtain detailed information.

Literature Review

For the literature review, the Undergraduate Services Team mainly wanted to learn more about unobtrusive observation studies. There is plenty of information about surveys as reference assessments, and the questionnaire in the team’s reference evaluation was used only to obtain demographic information. The University of Arizona also had conducted numerous focus group sessions; therefore, the team already had internal resources it could tap to find out how to conduct focus groups. Nevertheless, only a few libraries have utilized unobtrusive observation studies in their reference assessments. Unobtrusive observation has been used for years in the business sector, with individuals commonly known as “secret shoppers.” Some businesses actually employ secret shoppers to check out customer relations, products, pricing, and so on.¹ Most secret shoppers pose as real customers and provide a detailed report on any particular findings.² The library’s definition for unobtrusive observation studies is that they are “a predetermined set of test questions, which are given to reference librarians and staff members without their knowledge.”³ The researchers popularly accredited with putting unobtrusive observation on the map are Peter Hernon and Charles R. McClure. They came up with the 55 percent rule on answering reference questions correctly.⁴ Their unobtrusive model for testing reference service assumed that there is one right or wrong answer and that the librarian is responsible for providing the correct one. In their research study, participants were trained to ask the librarian specific questions of varying complexity.⁵ The Undergraduate Services Team wanted to add to this groundbreaking research by somehow incorporating behavioral traits within the unobtrusive questionnaire.

A few authors have written articles on some of the flaws of looking for customer satisfaction in right or wrong answers. Joan Durrance stressed that a good measure for customer satisfaction is not only if the person receives the right answer, but also "the willingness of the inquirer to return to the staff member at a later time."⁶ Carolyn W. Jardine stated that patrons "will judge the service they receive not only on whether or not they get what they came in for, but also on the reference librarians attitude behavior, interest and enthusiasm."⁷

The closest article that addressed using multiple qualitative techniques is "Using Undergraduate Marketing Students in an Unobtrusive Observation." In it, the librarians worked with an upper-level marketing class that participated in the unobtrusive study as a for-credit class exercise.⁸ The goal of the study was to evaluate the accuracy and thoroughness of the reference answer.⁹ After the reference encounter, students filled out the evaluation questionnaire and then met with the two librarians to discuss their experience. The focus group session lasted about an hour, and the librarians were able to expound on information they already had received from the questionnaire. The techniques of getting additional information from the participants through focus groups and developing a detailed worksheet were very beneficial to the Undergraduate Services Team's research. However, the team wanted to recruit a wide range of students for the survey and did not want to be limited to a particular class. Therefore, it decided not to create questions for the students but, rather, to let the students ask questions pertaining to their particular research interests.

Methodology

The reference evaluation took place over a period of three semesters. In the first semester, a standard survey, an unobtrusive worksheet, and focus group questions were created. Participants completed all three steps before they were

compensated. The procedure was as follows:

1. The student came into the office, filled out the survey, picked up the unobtrusive observation and instructions, and signed up for a focus group session.
2. The student had to have completed the unobtrusive worksheet by the time he or she attended the focus group session.
3. The student was paid \$10 after completing the focus group session.

The reference evaluation usually took place right around midterm and finals when students were naturally doing research for papers and assignments.

During the three semesters of conducting all three steps, more than a hundred students participated in the reference evaluation.

Survey

The survey contained ten questions and was used mainly to obtain demographic information and the students' initial opinion of the reference desk service. Other information sought included:

- How often do you visit the U. of A. Libraries?
- How often do you approach the desk?
- Rank the following items in terms of exceptional reference service: approachability, listening, follow-up, expert knowledge of resources, and computer technology.

Unobtrusive Observation

The unobtrusive worksheet contained eleven questions that students had to answer immediately after approaching the reference desk. Students were told not to let on that they were evaluating the reference staff and to ask questions pertaining only to their research. Moreover, they were given specific instructions on the type of questions they were not allowed to ask (e.g., Where is the rest room?). The first thing all participants were required to do was observe the reference desk for two to five minutes and then write down everything they saw. The back of the sheet

provided room to state two things they thought reference service providers did well and two things they thought needed improvement. The unobtrusive observation worksheet questions are provided in figure 1.

Focus Groups

After completing the survey and the unobtrusive observation worksheet, three to five students at a time attended an hour-long focus group session. The focus group questions basically allowed the team to elaborate on points from the survey and unobtrusive observation. One question asked how librarians should balance technology and print resources to help students with their research. Normally, the focus group was coordinated by a moderator and included a recorder. Usually, the moderator was an Undergraduate Services Team member who had been trained on how to obtain additional information and how to ensure that everyone has a turn to talk. The recorders varied; most often, a reference service provider was involved so that he or she could get an insider look at what the students really thought about the reference desk. The recorder was responsible for writing everything down and summarizing the session in a one- to two-page report.

Target Groups

During the three semesters of conducting all three steps, more than a hundred students participated in the reference evaluation. One important thing the team discovered is that it was not necessary to interview thousands of participants in order to begin to identify areas that need improvement. Yet, to have a smaller subset of participants, the team had to spend lots of time developing a target market.

The goal was to ensure that the sample population roughly represented the university's student population. Therefore, most of the time the team had to screen for freshmen, sophomores, and minorities during its recruitment efforts.

Initially, ads in the library and the student unions produced many more seniors

and graduate students. Although students at this level were more reliable in terms of completing all three steps, they had a very different outlook on what constitutes good reference service than freshmen and sophomores did. Moreover, by taking extra steps to recruit a wide range of people (i.e., putting ads in the dorms, cultural centers, student organizations), the team was able to capture different experiences without needing a larger population. After a few times with the whole process, the team started to get people repeating the same answers, thoughts, and ways of thinking, which reaffirmed that the team was on the right track.

Results

Overall, the students were very pleased with the reference desk. Most of them thought it was a worthwhile and needed service to help confused and new students get acclimated to the world of research. The overall scores were very positive, and reference service providers usually advised the students correctly on how to get started with their research interest. Very few students wanted the reference service provider to do the research but preferred, instead, that he or she point out which databases/print resources/Web sites were needed to guide them in the right direction. Most of the important information the team uncovered was from the unobtrusive observation. A few of the questions had a combination of a Gantt score plus room to expand, which gave a better understanding of why the person scored higher and lower in some cases.

Spring 1998

For this round, the team recruited students by posting ads in the library. Signs were put up on bathroom walls, in the elevators, and by the e-mail computers in the main and science-engineering libraries. More than seventy people initially showed interest in participating. Upperclassmen (juniors, seniors, and graduate students) accounted for 80 percent of the

FIGURE 1
Unobtrusive Observation Worksheet (Questions)

1. Observe the reference desk for approximately two to five minutes (incognito).
What are the reference staff members doing? (Write down everything.)

-

-

-

-

Do they look approachable?

No_

Yes

1

2

3

4

5

2. How long is the average wait for service? ____

-

3. Which person are you going to approach? Why?

-

-

-

-

4. What is your research question? (Write down the general idea.)

-

-

5. What did the person say when you initially asked the question?

-

-

-

-

6. What was the person's attitude while you explained the problem?

-

-

-

-

7. Which resources did the person recommend?

-

-

-

-

8. Did you find the resources useful?

No_

Yes

1

2

3

4

5

9. Did the sources directly answer your question?

No_

Yes

1

2

3

4

5

10. Would you approach the same person again? Why?

11. Did the person follow up to see if you needed additional help?

Take this time out to list two strengths and two ideas for improvement about the reference/service

participants. Responses also came from some freshmen and sophomores who worked in the library but also used the reference desk frequently.

Upperclassmen:

- visited the reference desk more frequently;
- were less interested in Web searching than in mastering database searching;
- picked "expert knowledge of resources" over approachability;
- thought the reference service providers were doing a good job answering questions but needed to reach out more to incoming students (after observing the desk for five minutes);
- identified roving, wearing name tags, and learning more about the new databases as the main ideas for improvement.

A number of Asian and other international students also participated in the first round. Some of these students:

- did not stop at the reference desk before this evaluation because of negative recommendations from other students (focus group sessions);
- looked more for approachability than expert knowledge of resources;
- mentioned not feeling welcomed at the reference desk but knew service providers gave good advice/answers (focus group sessions);
- identified roving, smiling, and following up with confused students as the main ideas for improvement.

One final group of students is worth mentioning. These were freshmen and sophomores with technology-intensive class assignments who needed additional help.

- Two students had been assigned to work on Web pages and asked the librarian staff person for help. The only person referred to as an expert in designing Web pages was out of town.
- Most of the time, the students said the Internet was their main source of information.
- One person wanted to know how to incorporate Web images into PowerPoint and was told "We don't handle those questions."

- Ninety percent of the students have not heard about the Free Workshop classes.

- This group of students mentioned roving, name tags, follow up with confused students, and technology training as the main ideas for improvement.

Fall 1998

For this round, the team wanted to involve more undergraduate students (freshmen and sophomores). In addition, more students were needed who were less familiar with the library. The team was successful in recruiting freshmen and sophomores, but these students proved less reliable than the graduate students. In addition, more African American and Latino students were recruited for this round. Most of the fliers were distributed outside the library at cultural centers and the student union. Although seventy-five students were recruited originally, only twenty-five completed the process. Nevertheless, the same patterns emerged. In the focus group sessions, the student responses and perceptions of the reference desk remain surprisingly similar. Most people thought that approachability and the correct direction were equally important or immediately agreed about going to the reference desk as the last resort.

Freshman and sophomore students:

- were less likely to approach the reference desk;
- used the reference desk only after exhausting all other options;
- were more likely to look at approachability as an initial sign to approach the desk;
- would not first come to the reference desk to have Internet questions answered;
- believed the reference service providers were at the desk to help with print and electronic database research only;
- generally were unaware (80% of these students) that the free workshop classes existed or that help was available with Web pages and multimedia;
- generally identified following up with confused students, roving, name

tags, and smiling more as ideas for improvement;

- believed that the reference service providers could answer most of their research questions but felt that they should be able to find answers to Internet questions on their own.

Spring 1999

For the last round of the reference evaluation, the team wanted to reach only those students who never visit the library or visit it only rarely. This time, no fliers were posted in the main or science-engineering library. Most of the students sought were from the campus resident halls and cultural centers. Seventy-five students were recruited, and thirty-six of them participated in the different sections. By the third semester, most of the results had become repetitive and the "new-to-the-library" student experiences were similar to last semester. This group included mainly freshmen and sophomores, as well as more Native American students. (The first two semesters involved only one Native American participant.) The results are very similar to last semester's results.

Undergraduate students:

- were less likely to approach the reference desk;
- used the reference desk only after exhausting all options;
- were more likely to look at approachability as an initial sign to approach the reference desk;
- would not think of coming to the reference desk to ask technology-related questions;
- believed that the reference service providers were at the desk to help with print and electronic database research only;
- generally were unaware (92% of this group) that there were free workshop classes or that help was available with Web pages and multimedia;
- identified following up with confused students, roving, and smiling more as ideas for improvement;
- believed that the reference service providers could answer most of their re-

search questions but felt that they should be able to answer Internet questions on their own.

Overall Findings from Unobtrusive Observation

Following are the behaviors that received high or perfect scores from the unobtrusive observation.

- *Initially approachable*: Even when reference service providers are using the computer or performing other chores, they occasionally need to notice students and smile.
- *Friendly/helpful/listening*: This behavior usually determined whether the student would ever approach the desk again.
- *Different options*: This refers to a basic understanding of how much information to provide students. Some students said they were overwhelmed with too many options; others wished the reference service providers would have followed up to ensure they understood the electronic databases/print resources, and so on.
- *Follow-up*: Follow-up is especially necessary when the student is new to or confused about using the library. A simple statement such as "Please come back to the desk if you have any more questions" is enough to make students feel comfortable about approaching the desk a second time. *The reference service provider who went the extra mile to follow up with a student always received higher marks overall even if his or her answer was incorrect.*

Overall Need for Improvement

Following are efforts that would improve service:

- walking around (main library, not science-engineering library);
- following up with confused students;
- smiling more;
- advertising technology classes;
- being alert to students who might be uncomfortable about asking for help;
- wearing name tags;
- putting up more signage;

- being more consistent with referrals for technology assistance.

Plans for Action

Following are some of the things the Undergraduate Services Team either has done already to improve service or is currently working on:

- The team's graphic designer has created name tags for all reference service providers.
- More visible signage has been posted in the reference areas of both the main and science-engineering libraries.
- The main library instituted a "rover" slot during peak times, where reference service providers can walk around the reference room with a clipboard to answer questions.
- The team is increasing the advertising about technology classes.
- The team is setting up a referral list of reference service providers who have technology expertise.
- A final report with results and recommendations for the reference desk has

been distributed to all reference service providers.

Future Plans

The Undergraduate Services Team is currently working on plans for an information commons. The information commons will have more than two hundred computers with multimedia capability. The team anticipates that when the information commons is completed in two years, reference desk service will change completely as more and more computer technology options are provided at the library. In addition, the team anticipates that reference service providers will have to have at least a basic knowledge about multimedia software, in addition to electronic databases. At that time, the team will conduct another reference evaluation to obtain feedback on how things are going. Until then, the team will continue to work on current recommendations from students and try to anticipate and exceed their expectations.

Notes

1. Louise Jarvis, "Secret Shopping Service (Consulting Service)" *Executive Female* 19 (July–Aug. 1996): 24.
2. *Ibid.*, 1.
3. *Ibid.*, 2.
4. Peter Hernon and Charles R. McClure, "Unobtrusive Reference Testing: The 55 Percent Rule," *Library Journal* 111 (Apr. 15, 1986): 37–41.
5. *Ibid.*, 3.
6. Joan Durrance, "Reference Success: Does the 55 Percent Rule Tell the Whole Story?" *Library Journal* 114 (Apr. 15, 1989): 32.
7. Carolyn W. Jardine, "Maybe the 55 Percent Rule Doesn't Tell the Whole Story," *College & Research Libraries* 56 (Nov. 1995): 477–85.
8. Mary Tygett, V. Lonnie Lawson, and Kathleen Weesies, "Using Undergraduate Marketing Students in an Unobtrusive Reference Observation," *RQ* 36 (winter 1996): 270–76.
9. *Ibid.*, 9.