## Establishing Claims and Providing Evidence of Effectiveness of ATE Grants

| Here are some common types of evaluation reports. <br> Think about which one best represents the evaluation reports you've seen in the past. NSF is pushing for more and better evidence of project effectiveness. The exercises on the following pages are intended to help ATE grantees and their evaluators think about what that means for their work. |  |  |  | "The PI should establish claims as to the project's effectiveness, and the evaluative activities should provide evidence on the extent to which the claims are realized." -2010 ATE Program Solicitation |
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|  | Body Count | Opinion | Description | Claims + Evidence |
|  | The TechCommunications Project <br> - Developed two courses (Communication Skills for Technicians 101 and 102), including stand-alone modules and activities that can be used in other courses. <br> - Enrolled 150 students in Communication Skills for Technicians 101 and 102 at three of the five Omni Community College campuses <br> - Involved 10 faculty and 25 business and industry representatives in the curriculum development process.... | The TechCommunications Project is to be commended for its extraordinary efforts to engage business and industry representatives and faculty representing diverse technical fields in developing the course curriculum. Feedback from these groups provided invaluable insights for improving the materials. The evaluator observed remarkable improvement in students' communication skills over the twosemester sequence. Students appeared to be receptive to the course's very practical content and activities.... | The TechCommunications Project met its goal to develop two courses designed to enhanced students' communication skills. The curriculum development process was completed in Year 1, with input from faculty and business representatives. Courses were piloted on three campuses in Year 2. The course curriculum is available at www. projectsite.org. It is divided into three modules, focused on writing, presenting, and group facilitation, with associated activities. Instructional strategies include peer feedback on selfreflection. In response to an end-ofcourse survey, $75 \%$ of students said they were "satisfied" or "highly satisfied" with the course.... | The TechCommunications Project has resulted in substantial increases in students' facilitation and presenting skills. Trained, blinded (i.e., they did not know which students were enrolled in the project courses) raters assessed the majority ( $80 \%$ ) of Communication Skills for Technicians 101 and 102 students to be "proficient" in group facilitation and presenting, whereas they rated one-third of nonenrolled students as "proficient." Ratings of student writing were similar among all students, showing the course had no effect on writing skills. <br> Qualitative findings from student interviews revealed that, in particular, the peer feed back played a key role in helping them to develop their presenting and facilitation abilities.... |

## STEP 1: Establish your claim regarding impact.

Tips:

- Impacts may include changes in knowledge, skills, abilities, performance, practices, policies, and access.
- Impacts may manifest at the individual, program, institution, organization, regional, or national level.
- Impacts may be short-term, long-term, or anywhere in between. Focus on impacts likely to occur before your grant expires.
- Good evaluation questions cannot be answered with a 'yes' or 'no.'

| Who/what will be impacted? | What will be different for them as a result of your project? | What evaluation question should be answered in order to make a claim about this impact? |
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| Students who complete Communication Skills for Technicians 101 and 102 at the three Omni Community College campuses where the courses are being piloted (approximately 150 students per year). | They will have improved communication skills, especially in the areas of business writing, public speaking, and small group facilitation. | To what extent do students' communication skills improve as a result of completing Communication Skills for Technicians 101 and 102? |
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## STEP 2: Determine what indicators you will use to observe/measure the impact.

Tips:

- Indicators are observable, measurable information that tell you about the quality or status of something.
- Multiple indicators are desirable, with a mixture of qualitative and quantitative data sources.
- The need for rigorous data collection must be balanced with feasibility and cost considerations.
- Common data sources:

- Common data collection methods:
- Surveys (in-person, phone,

Focus groups
Observations
$\square$ Performance assessments

- Simulations

Testing

