This case was prepared to serve as a basis for discussion rather than to illustrate either effective or ineffective administrative and management practices. All names, dates, places, and organizations have been disguised at the request of the authors or organization.

# Effective Meeting Skills TechnoTel Corporation

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Everyone has experienced long, meaningless meetings – the ones that seem to have no purpose. This case study presents the benefits that can be achieved by reducing the length of meetings, the number of meetings, and the number of meeting participants. Pre-program data was collected using a meeting profile worksheet, and post-program data was collected using a comprehensive questionnaire. Participant estimates were used to isolate the effects of the workshop on the measures. Standard values of time (salary and benefits) were used to convert data to monetary values. Fully loaded program costs were developed.

## **Background**

TechnoTel Corporation is a maker of telecommunications equipment. Although the firm has 22 locations, this case study takes place in Frankfurt, Germany. A comprehensive needs assessment targeting managerial and supervisory competencies revealed a lack of effective meeting skills, including the ability to prepare, conduct, facilitate, participate in, and follow up on meetings. The corporate learning department developed a 2-day, facilitator-led workshop with specific objectives to address these needs. The program was designed to ensure successful application of the skills.

### **Program Objectives**

The Effective Meeting Skills workshop was made available to managers and project leaders who regularly conduct meetings in all TechnoTel divisions. Program objectives suggest that upon completion of the workshop, participants would have:

- the tools and techniques to prepare, conduct, and follow up on meetings
- an understanding of the human dynamics of meetings
- strategies for participating in or leading meetings more effectively.

In addition to these program outputs, participation in the program was expected to lead to shorter meetings, fewer meetings, and a smaller number of participants attending meetings.

# **Program Design**

To meet the identified objectives, the two-day Effective Meeting Skills workshop included a variety of knowledge-based exercises as well as skill-based practices and tasks. Figure 1 presents the complete outline for the program.

- 1. Meeting activity profile completed by participants
- Definition for an effective meeting
- 3. Criteria for effective meetings
- 4. Causes behind ineffective meetings
- 5. Tips for conducting effective meetings
  - a. Determine purpose
  - b. Recognize the type of meeting
  - c. Arrange seating appropriately
  - d. Set the agenda
  - e. Assemble a set of all appropriate attendees
  - f. Establish ground rules
  - g. Bring closure and plan follow-up
- 6. Skill practices
- 7. Key roles in meetings
- 8. Meeting tasks
- 9. The human function in meetings
- 10. Debriefing model
- 11. Brainstorming
- 12. Decision making
- 13. Encouraging participation
- 14. Handling group dynamics
- 15. Dealing with difficult participants
- 16. Providing feedback
- 17. Handling conflict
- 18. Meeting simulations/exercises
- 19. Action plan requirements

Figure 1. Outline for the Effective Meetings Program

To assist the transfer of skills to the job, a brief action plan was required so that participants could identify specific new and enhanced behaviors and track their progress as they conduct future meetings. Although an important part of the program, the action plan was used primarily to assist participants in their tracking actual use of knowledge and skills.

Along with the action plan, a meeting profile was designed into the program to capture the current level and cost of meetings. It also provided baseline data for comparing improvements resulting from the program. Figure 2 presents the meeting profile.

| Number of meetings chaired each month  Average number of individuals attending each meeting each month  Average length of time for each meeting (in hours)  Total Time Consumed in Meetings (A × B × C) | Λ. |
|---|----|
| Average length of time for each meeting (in hours)  | Α  |
|   | В  |
| Total Time Consumed in Meetings (A × B × C)   | c  |
|   | D  |
| Average hourly compensation of attendees (salary plus benefits)   | E  |
| Total Meeting Costs (D × E)   | F  |

Figure 2. Meeting Profile

#### **Evaluation Need**

The president of one of TechnoTel's major business units was interested in conducting this program for his middle management group – a total of 150 managers. Six programs were offered to the group within a 1-month time period. The nature of the business and the president's interest in accountability led the president to request a comprehensive evaluation of the program. Not only was he interested in whether or not the program resulted in reduced meetings and fewer participants, but also he was interested in whether the benefits of his putting his people through the program exceeded the costs.

The president's desire to ensure a positive return on his investment as well as the corporate learning department's desire to gather data to improve the program overall led the learning staff to plan a comprehensive evaluation. The results of the evaluation would report success from the participant's perspective, the system perspective, and the economic perspective. Given these requirements, the learning staff implemented the ROI Methodology in its entirety.

# **Evaluation Methodology**

The ROI Methodology (Phillips, 2003) had been integrated into TechnoTel's corporate learning function 2 years prior to the launch of the Effective Meeting Skills program. TechnoTel has successfully sustained the use of this process because it:

- reports a balanced set of measures
- follows a methodical step-by-step process
- adheres to standards and philosophy of maintaining a conservative approach and credible outcomes.

The ROI Methodology categorizes evaluation data into five levels as shown in Table 1. These five levels tell the complete story of program success. The five levels balance economic impact with measures that address individuals' perspectives of the program and the systems and processes that support the transfer of learning.

|    | Level                                      | Measurement Focus  |
|----|--|--|
| 1. | Reaction, Satisfaction, and Planned Action | Measures participant satisfaction with the program and captures planned action |
| 2. | Learning                                   | Measures changes in knowledge, skills, and attitudes                           |
| 3. | Application and Implementation             | Measures changes in on-the-job behavior  |
| 4. | Impact                                     | Measures changes in critical business measures                                 |
| 5. | Return-on-Investment (ROI)                 | Compares the monetary benefits to the costs                                    |

Table 1. The Evaluation Framework

#### Level 1: Reaction, Satisfaction, and Planned Action

This initial level of evaluation is the most commonly used within the TechnoTel learning environment. Reaction and satisfaction data are collected using a standard end-of-course questionnaire; planned actions are often collected using action plans, however, a question asking the participants intent to use what they learned is included on the end-of-course questionnaire and suffices for the planned action measure when action plans are not used.

The TechnoTel learning environment is interested in a variety of measures at Level 1, some of which are relevant only to the learning staff and their efforts to improve the learning process. These measures address course design and delivery as well as participant perception of the learning environment. Because management is interested in potential use of all programs, TechnoTel's Level 1 evaluation also answers five important questions:

- 1. Is the program relevant to participant's jobs?
- 2. Is the program important to participants' jobs?
- 3. Do participants intend to use what they learned in the program?
- 4. Did the program provide participants with new information?
- 5. Would participants recommend the programs to others?

An acceptable rating, using a 1=n=5 rating scale (1 = Unacceptable; 5 = Acceptable), for all TechnoTel courses is 4.0 or above. Any measures that fall below these ratings are flagged and actions are taken to improve them in future courses.

# Level 2: Learning

Participant understanding of the knowledge and skills taught in a program is imperative to their ability to change behavior. Learning measurement at TechnoTel takes place during the program through a variety of techniques such as tests, facilitator assessment,

peer assessment, self-assessment, observation, and reflective thinking with documentation. The questions that TechnoTel strives to answer when measuring learning are these:

- 1. Do participants understand what they are supposed to do and how to do it?
- 2. Are participants confident to apply their newly acquired knowledge and skills when they leave the classroom?

## Level 3: Application and Implementation

For many programs, TechnoTel's supervisors and managers are interested in what participants do with what they learn. When this is the case, programs are evaluated at Level 3 using a variety of techniques including self-administered questionnaires, 360-degree feedback, observations, focus groups, and interviews. Because there is more to learning transfer than just attending the program or course, it is important to TechnoTel to gather data related to how the organizational system (management, technology, and so forth) supports the transfer of training. With these considerations, three basic questions were answered at Level 3 for the Effective Meeting Skills workshop:

- 1. How much have participants changed their approach to planning and conducting meetings?
- 2. If they are applying their knowledge and skills, what is supporting their effort?
- 3. If they are not applying their knowledge and skills, why not?

# Level 4: Impact

For many programs TechnoTel is interested in impact on output, quality, cost, and timemeasures of efficiency. The organization wants to know how programs influence customer satisfaction and employee satisfaction--measures that are critical to organizational success but not monetized but only tracked using corporate metrics. The ultimate question answered at Level 4 is: So what?

#### Level 5: ROI

This final measure of success answers the question: Do the monetary benefits of the program exceed the costs?

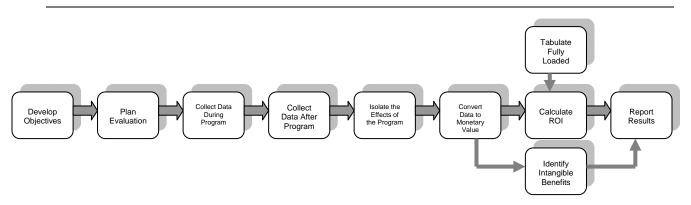
For some programs, the organization is not interested in calculating ROI. But, for programs that are costly or high profile, that drive business impact, or that are of particular interest to management, ROI is important. A standard ROI target of 25 percent is set for programs being evaluated to this level. This represents a slightly higher ROI than the ROI being achieved by other investments made by TechnoTel.

The balanced set of measures that is yielded by answering the key questions posed at each level of evaluation provides TechnoTel's corporate learning department a complete story of program success. Through this story, the department not only improves the immediate learning process, but also enhances how the system as a

whole works to ensure successful transfer of learning and the achievement of desired outcomes. TechnoTel uses all of this information in combination with the ROI metric to determine if a program is a wise investment--either alone or in comparison to alternative programs that may yield similar outcomes.

## Step-By-Step Process

The 10 steps in the ROI Methodology constitute a methodical process to evaluation. As shown in Figure 3, the evaluation process begins with identifying program objectives and evaluation planning. From there, execution requires that data be collected and analyzed before developing a final report.



Phillips, J.J., R.D. Stone, and P.P. Phillips. (2001). *Human Resources Scorecard*. Boston: Butterworth-Heinemann. Used with permission.

Figure 3. The ROI Methodology

#### **Data Collection Procedures**

A pragmatic approach to data collection was taken for the evaluation of the Effective Meeting Skills program. Because the cost of the program (as will be described in a later section) was not excessive, the corporate learning department staff determined that the prudent approach for this particular evaluation would be to keep the cost low while ensuring credible results. The data collection process began with a review of the objectives and measures of success, identification of the appropriate data collection methods and the most credible sources of data, and a determination of the timing of data collection.

#### **Program Objectives and Measures**

The needs assessment identified the skill deficiencies that kept managers from conducting effective meetings. Through the needs assessment process and the design of the Effective Meeting Skills program, specific outputs were defined as well as specific impact measures that would result if participants applied their newly acquired

knowledge and skills. Measures of success at Level 1 are standard (4.0 out of 5.0), as is the measure of success at Level 5 (25 percent); measures of success for the other levels of evaluation were dependent on the program or the client expectations. In this case, the president of the division implementing the workshop was interested in improvement in the impact measures; even though he did not specify what improvement he was looking for, he did indicate by his request that the benefits should exceed the cost of the program. Therefore, the improvement must be such that when converted to monetary value a positive ROI was achieved. Table 2 summarizes the program's objectives and the measures used to determine success.

|                            | <b>Broad Objectives</b>   | Measures  |
|----------------------------|---|---|
| Satisfaction<br>Objectives | Positive reaction and planned action with the knowledge and skills presented in the course      | Ranking of 4 our to 5 on:  Relevance Importance Intent to use New information Recommendation to others          |
|                            | Planned action  | Three different actions to be taken when returning to the job from each participant                             |
| Learning<br>Objectives     | Ability to identify the extent and cost of meetings   | Given cost guidelines, determine the cost of last three meetings  |
|                            | Ability to identify positives, negatives, and implications of basic meeting issues and dynamics | From a list of 30 positive and negative meeting behaviors, correctly identify the implications of each behavior |
|                            | Acquisition of effective meeting behaviors  | Demonstrate appropriate responses to eight of ten active role play scenarios                                    |
| Application<br>Objectives  | Use of effective meeting behaviors  | Reported changes in behavior toward planning and conducting meetings  |
|                            | Barriers to application   | Number and variety of barriers identified   |
|                            | Enablers to application   | Number and variety of enablers identified   |
| Impact<br>Objectives       | Shorter meetings  | Reported time savings   |
|                            | Fewer meetings  | Reported time savings   |
|                            | Fewer meeting participants  | Reported time savings   |
| ROI                        | 25%   |   |

Table 2. Objectives and Measures of Success for the Effective Meeting Skills Program

#### **Data Collection Methods**

Data were collected for this evaluation using multiple methods: end-of-course questionnaire, action plans, meeting profile, written test, skills practice observation, and a follow-up questionnaire. The successful meeting profile was designed into the program (see Figure 2). It was used at the beginning of the program to capture the current level and costs of meetings. When completed, this exercise showed participants how much time they spent in meetings and the overall cost of meetings. These data served as baseline for comparing improvements identified in the follow-up

questionnaire. The written test measured the improvements in knowledge of basic issues and meeting dynamics, and skill practices measured success in using effective meeting skills.

The action plan was an important part of understanding how participants applied what they learned when they returned to the job; however, the follow-up questionnaire was the primary data collection method for Level 3 and Level 4 follow-up data. Figure 4 presents the complete follow-up questionnaire.

| Listed below are the ob<br>program, please indicate   |   |                     |                    |                         | on this              |
|---|---|---------------------|--------------------|-------------------------|----------------------|
| As a result of this prograwill have:  | ım, participants                              | Failed              | Limited<br>Success | Generally<br>Successful | Complete<br>Successf |
| a. the tools and techniqu conduct and follow up   |   |                     |                    |                         |                      |
| b. an understanding of the of meetings  | e human dynamics                              |                     |                    |                         |                      |
| c. strategies to participat   |   |                     |                    |                         |                      |
|   | nent an on-the-job ac                         | ·                   |                    | -                       | □ No □               |
| Did you develop and impler f yes, please describe the representation of 1   | nent an on-the-job ac<br>nature and outcome c | of the plan.        | If not, expla      | in why.                 |                      |
| Did you develop and impler f yes, please describe the representation of 1   | nent an on-the-job ac<br>nature and outcome c | of the plan.        | If not, expla      | in why.                 | ob, with (1)         |
| Did you develop and impler f yes, please describe the representation of 1   | nent an on-the-job ac<br>nature and outcome c | ach of the elevant. | If not, expla      | in why.                 | ob, with (1)         |
| Please rate, on a scale of 1 ndicating no relevance, and  | nent an on-the-job ac<br>nature and outcome c | ach of the elevant. | If not, expla      | ments to your j         | ob, with (1)         |
| Did you develop and impler  f yes, please describe the re  Please rate, on a scale of 1  Indicating no relevance, and   | nent an on-the-job ac<br>nature and outcome c | ach of the elevant. | program eler       | ments to your j         | ob, with (1)         |
| Did you develop and impler  f yes, please describe the re  Please rate, on a scale of 1 ndicating no relevance, and  Interactive Activities  Groups Discussions | nent an on-the-job ac<br>nature and outcome c | ach of the elevant. | program eler       | ments to your j         | ob, with (1)         |

5. Please indicate the degree to which you have changed the use of the following items/actions/behaviors enhanced as a result of your participation in *Effective Meetings*:

|   | No<br>Change | Little<br>Change | Some<br>Change | Significant<br>Change | Very<br>Much<br>Change | No<br>Opportunity<br>To Use Skill |
|---|--------------|------------------|----------------|-----------------------|------------------------|-----------------------------------|
| Participating Effectively in Meetings                       |              |                  |                |                       |                        |                                   |
| Avoiding Meetings Unless they are Necessary                 |              |                  |                |                       |                        |                                   |
| Minimizing the Number of Participants<br>Attending Meetings |              |                  |                |                       |                        |                                   |
| Setting Objectives for Meetings                             |              |                  |                |                       |                        |                                   |
| Developing an Agenda for Each Meeting                       |              |                  |                |                       |                        |                                   |
| Controlling Time of Meetings                                |              |                  |                |                       |                        |                                   |
| Enhancing Participant Satisfaction in Meetings              |              |                  |                |                       |                        |                                   |
| Arranging the Meeting Site for Maximum Effectiveness        |              |                  |                |                       |                        |                                   |
| Scheduling the Optimum Time for Meetings                    |              |                  |                |                       |                        |                                   |
| Communicating the Ground Rules for Meetings                 |              |                  |                |                       |                        |                                   |
| Assigning Appropriate Roles for Meeting<br>Participants     |              |                  |                |                       |                        |                                   |
| Reaching Consensus in Meetings When Appropriate             |              |                  |                |                       |                        |                                   |
| Listening Actively to Meeting Participants                  |              |                  |                |                       |                        |                                   |
| Encouraging Participation in Meetings                       |              |                  |                |                       |                        |                                   |
| Using Brainstorming in Meetings When Appropriate            |              |                  |                |                       |                        |                                   |
| Dealing with Difficult Meeting Participants                 |              |                  |                |                       |                        |                                   |
| Providing Feedback to Meeting Participants                  |              |                  |                |                       |                        |                                   |
| a. Handling Conflict in Meeting                             |              |                  |                |                       |                        |                                   |
| b. Keeping the Meeting on Focus                             |              |                  |                |                       |                        |                                   |
| c. Accomplishing Meeting Objectives                         |              |                  |                |                       |                        |                                   |
| Evaluating the Meeting Process                              |              |                  |                |                       |                        |                                   |
| Implementing Action Plans                                   |              |                  |                |                       |                        |                                   |
| Planning a Follow-up Activity                               |              |                  |                |                       |                        |                                   |

| 6.  | List the five (5) <i>Effective Meeting</i> behaviors or skills you have used most frequently as a result of the program.  |
|-----|---|
|     |   |
|     |   |
| 7.  | What has changed about your meeting activity profile as a result of this program? (Fewer meetings, fewer participants, shorter meetings, etc.)  |
|     |   |
|     |   |
| 8.  | Please estimate the following monthly time saving measures. Use the most recent month compared to the month before attending this program. Provide only improvements directly related to this program and only when the time saved is used productively.  |
|     | □ Number of meetings avoided each month with improved planning and analysis   |
|     | ☐ Average time saved per meeting per month (in hours)   |
|     | □ Average number of participants reduced per meeting per month  |
| 9.  | What level of confidence do you place on the above estimations? (0% - No Confidence, $100\% = Certainty$ )  |
|     | <u> </u>  |
| 10. | Please identify any specific accomplishments/improvements that you can link to this program (on time schedules, project completion, response times, better decisions, more ideas from group, etc.)  |
|     |   |
|     |   |
| 11. | What specific value in US Dollars can be attributed to the above accomplishments/ improvements? Use first year values only. While this is a difficult question, try to think of specific ways in which the above improvements can be converted to monetary units. Along with the monetary value, please indicate the basis of your calculation. |
|     | \$  |
|     | Basis   |
|     |   |

| 12. | What level of con (0% - No Confide     | fidence do you pla<br>ence, 100% = Cer |                      | ove estimatio     | ns?                   |                          |                        |
|-----|--|--|----------------------|-------------------|-----------------------|--------------------------|------------------------|
|     |  | <u>%</u>                               |                      |                   |                       |                          |                        |
| 13. | Other factors ofte improvement that    |  |                      |                   | Please indicat        | e the percent            | of the above           |
|     | Please explain.                        |  |                      |                   |                       |                          |                        |
| 11  | Do you think the                       | Effective Meeting                      | <b>ne</b> program ro | presented a       | rood investme         | ant for Tachno           | Tol2                   |
| 14. | Yes□ No                                |  | gs program re        | presented a (     | good investine        | ant for Technio          | TGI:                   |
|     | Please explain.                        |  |                      |                   |                       |                          |                        |
|     |  |  |                      |                   |                       |                          |                        |
|     | Was it a good inv                      | estment of your ti                     | me?                  |                   |                       |                          |                        |
|     | Yes□ No                                |  |                      |                   |                       |                          |                        |
|     | Please explain.                        |  |                      |                   |                       |                          |                        |
| 15. | Indicate the exter<br>measures in your |  |                      | ness unit:        |                       |                          |                        |
|     |  |  | No<br>Influence      | Some<br>Influence | Moderate<br>Influence | Significant<br>Influence | Very Much<br>Influence |
|     | Productivity                           |  |                      |                   |                       |                          |                        |
|     | Customer Respo                         | onse Time                              |                      |                   |                       |                          |                        |
|     | Cost Control                           |  |                      |                   |                       |                          |                        |
|     | Employee Satist                        | faction                                |                      |                   |                       |                          |                        |
|     | Customer Satisf                        | action                                 |                      |                   |                       |                          |                        |
|     | Quality                                |  |                      |                   |                       |                          |                        |
|     | Other                                  |  |                      |                   |                       |                          |                        |
| 16. | What barriers, if a gained in this pro |  |                      |                   | ted you from u        | ısing skills or I        | knowledge              |
|     | -                                      |  |                      |                   |                       |                          |                        |

| 17. | What enablers, if any, are present to help you use the skills or knowledge gained from this program? Please explain. |
|-----|--|
|     |  |
| 18. | What additional benefits have been derived from this program?  |
| 19. | What specific suggestions do you have for improving this program?  |
|     |  |
| 20. | Other Comments:  |

Figure 4. Effective Meeting Skills Follow-up Impact Questionnaire

Because of their desire to limit the cost of the evaluation, the corporate learning department staff decided on the most feasible methods for data collection. Cost data were developed using company records, and Table 3 summarizes the other data collection methods.

|                            | Level 1 | Level 2 | Level 3 | Barriers/<br>Enablers | Level 4 | Costs |
|----------------------------|---------|---------|---------|-----------------------|---------|-------|
| End-of-Course              | Χ       |         |         |                       |         |       |
| Questionnaire              |         |         |         |                       |         |       |
| Meeting Profile            |         | Χ       |         |                       |         |       |
| Written Test               |         | Χ       |         |                       |         |       |
| Skill Practice Observation |         | Χ       |         |                       |         |       |
| Action Plan                | Х       |         | Χ       |                       |         |       |
| Questionnaire              |         |         | Χ       | Х                     | Χ       |       |
| Company Records            |         |         |         |                       |         | Χ     |

Table 3. Data Collection Methods

#### **Data Sources**

Data source selection is a critical step in data collection in that the source drives the credibility and validity of the study. Who knows best about the measures being taken? The primary source of data for the effective meeting skills evaluation was the participants. The managers and project leaders participating in the workshop know the extent to which they apply their knowledge and skills; they are the people who plan and lead the meetings; they are the people who recognize the cost of too many unproductive meetings (they are the ones calling the meetings). Although it may have been valuable to administer surveys to the professional staff participating in the meetings, this step would have added additional cost to the data collection process. The information they would have provided would have been valuable, but the perceived value of their input did not appear to outweigh the time and cost involved in collecting and analyzing the additional data. It was decided that the participants would serve as the source of data for this evaluation.

The program was rolled out to the entire 150 middle managers of the Frankfurt division; the managers divided up into six groups. It was agreed with the division president that the target group for this evaluation would include only three of the six groups participating in the program. This limitation would save cost and time of evaluation and would provide the president the data he needed to make a fair assessment of the success of the program. Given this, a total of 72 managers participated in the evaluation process.

## **Data Collection Timing**

When conducting a comprehensive evaluation such as that completed for the Effective Meeting Skills workshop, data is collected at two different timeframes: Levels 1 and 2 data is collected during the program, and Levels 3 and 4 data is collected after participants have had time to apply knowledge and skills on a routine basis. It was determined that given the type of skills being developed in the Effective Meeting Skills program and the numerous opportunities managers have to apply the skills, that 3 months would be ample time for the acquired skills to be internalized and produce results. Therefore, 3 months after completing the program, participants would receive the follow-up questionnaire.

Figure 5 presents the complete data collection plan. The corporate learning staff presented the data collection plan and the ROI analysis plan (described in the next section) to the division president for concurrence prior to execution.

# **DATA COLLECTION PLAN**

| Evaluation F | ourpose:           |                 |       |  |
|--------------|--------------------|-----------------|-------|--|
| Program:     | Effective Meetings | Responsibility: | Date: |  |

|       |  |  | Data Collection  | Data         |   |                  |
|-------|--|--|--|--------------|---|------------------|
| Level | Broad Program Objective(s)   | Measures   | Method/Instruments   | Sources      | Timing  | Responsibilities |
| 1     | REACTION/SATISFACTION & PLANNED ACTIONS  • Positive Reaction  • Planned Actions  | Average rating of at least 4.0 on 5.0 scale on quality, usefulness and achievement of program objectives.     100% submit planned actions  | End of Course     Questionnaire      Completed Action Plans                                  | Participants | End of Course   | Facilitator      |
| 2     | LEARNING     Identify the extent and cost of meetings     Identify positives, negatives and implications of basic meeting issues and dynamics     Acquisition of Effective Meeting Behaviors   | Given cost guidelines, identify the cost of last three meetings     From a list of 30 positive and negative meeting behaviors, correctly identify the implications of each behavior     Demonstrate appropriate response to 8 of 10 active role play scenarios | <ul><li> Meeting Profile</li><li> Written Test</li><li> Skill practice observation</li></ul> | Participants | At the Beginning of Program     At the Beginning of the Program (Pre)     At the End of the Program (Post)     During Program | Facilitator      |
| 3     | APPLICATION/     IMPLEMENTATION     Use of Effective Meeting     Behaviors     Examine the need for a     meeting and scrutinize the list     of participants invited                          | Reported actions to influence more effective meetings     Reported use of effective meeting planning and meeting conduct behaviors   | <ul><li>Action Plan</li><li>Questionnaire (For 3 Groups)</li></ul>                           | Participants | 3 Months  | Program Owner    |
| 4     | BUSINESS IMPACT     Time Savings from fewer meetings, shorter meetings, and fewer participants (Hours Savings Per Month)     Variety of Business Impact Measures from more successful meetings | Time savings, cost savings, output improvement, quality improvement, project turnaround, etc. as reported  | Questionnaire (For 3 Groups)   | Participants | 3 Months  | Program Owner    |
| 5     | ROI Target ROI at least 25%  | Comments:  |  |              |   |                  |

Figure 5. Data Collection Plan

#### Success with Data Collection

A data collection administration strategy is important for ensuring that the appropriate amount of data is provided. In the case of the Effective Meeting Skills workshop, the administrative strategy consisted of four primary actions:

- 1. The evaluation strategy was presented at the beginning of the program.
- 2. The facilitators reinforced the need for participants to respond to the follow-up questionnaire at the end of the program.
- 3. The division president signed a letter that was distributed 3 days prior to the questionnaires being mailed.
- 4. The questionnaire did not require that participants include their name or other demographic information; therefore, respondents remained anonymous.

All participants responded to the Level 1 and 2 evaluations; the follow-up for Levels 3 and 4 proved to be challenging, however. The overall response rate was 67 percent (48 respondents), which was satisfactory to the evaluation team and the division president. Unfortunately, only 43 percent (31 respondents) of the participants provided useable data on questions 7, 8, and 9 (see Figure 4). These three questions were directly related to follow-up on the impact measures. With the understanding that the results would reflect only that which occurred for those responding, the division president was satisfied with the response rate.

# **Data Analysis Procedures**

Data analysis comprises five key steps, each of which was carefully considered during the evaluation of this workshop:

- 1. isolating the effects of the program
- 2. converting data to monetary value
- 3. tabulating fully loaded costs
- 4. identifying intangible benefits
- 5. comparing the monetary benefits to the costs.

# Isolating the Effects of the Program

This step of the ROI Methodology answers the question, "How do you know it was your program that influenced the measures?" Isolating the effects of the program considers all other variables that may have influenced improvement in specific measures of success for a program. Four of the 10 potential techniques were considered for the Effective Meeting Skills workshop: control group, trend-line analysis, forecasting, and participant estimations.

Because only three of the six groups were being evaluated, it was first suggested that a control group arrangement could be used to isolate the effects of the program. The thought was that the groups not participating in the evaluation process could serve as

the control group. After much deliberation, however, it was agreed that it would be difficult to maintain the integrity of the experiment and it would be disruptive.

Participants completed a meeting profile during the program to determine the time, frequency, and participation of meetings along with the costs. To collect similar data from the control group, its members would have to complete meeting profiles, as well. This would not only contribute the contamination of the experiment, but would require additional work for the control group members. It was important to the division president to keep the evaluation low key by not requiring too much additional work and by not disrupting the organization. For these reasons, the control group arrangement was eliminated as an option.

Historical data were not available for the primary measure (time savings), so trend-line analysis and forecasting were inappropriate as well. The only remaining option was the use of participant estimations for isolating the effects of the workshop on the three impact measures: shorter meetings, reduced number of meetings, and fewer participants attending meetings.

# Converting Data to Monetary Value

When moving from Level 4 to Level 5 evaluation, this step is the most critical because it determines the numerator (top number) in the ROI equation. Ten techniques to convert data to monetary value are possible. For this evaluation, however, the technique was apparent. As the outcome measures were all time related, the standard value of hourly compensation (salary plus benefits) for the participant chairing the meeting as well as those attending the meeting was used.

#### Tabulating Fully Loaded Costs

To calculate ROI, it is imperative to use the fully loaded costs of the program. Costs categories for the Effective Meeting Skills workshop were:

- program fee (facilitator costs, materials, program design and development)
- travel, lodging, meals
- facilities
- participants' salaries and benefits for their time in the classroom
- evaluation costs.

# Identifying Intangible Benefits

Intangible benefits are any unplanned benefits derived from the program or any benefits not converted to monetary value. There were many intangible benefits of the Effective Meeting Skills workshop, which will be listed in the Results section that follows.

# **Calculating ROI**

The ROI equation compares net benefits (earnings) to the program costs (investment). It can be reported as a BCR by comparing the benefits to the program costs. ROI is well-used within the TechnoTel organization; managers and professionals alike recognize the acronym for what it is; therefore, to ensure that the corporate learning department speaks the same language as the business, the following equation is used to report ROI:

BCR = Benefits
Costs

 $ROI = \underbrace{Net\ Program\ Benefits}_{Costs} \times 100$ 

A 25 percent ROI target is standard for most programs being evaluated at this level. Because of the nature of the program, the evaluation team and the division president believed this to be a conservative target.

Figure 6 presents the completed ROI analysis plan. As in the case of the data collection plan, the ROI analysis plan was presented to the division president prior to implementing the evaluation. The division president concurred with the plan.

# **ROI Analysis Plan**

|--|

| Data Items<br>(Usually<br>Level 4)       | Methods for<br>Isolating the<br>Effects of the<br>Program/<br>Process | Methods of<br>Converting Data<br>to Monetary<br>Values             | Cost<br>Categories                         | Intangible<br>Benefits  | Communication<br>Targets for Final<br>Report                          | Other<br>Influences/<br>Issues During<br>Application                                   | Comments  |
|--|---|--|--|---|---|--|---|
| 1. Time Savings                          | Participant's     Estimate  | Hourly Wage and Benefits   | Program Fee     Per     Participant        | Improve-<br>ment in<br>Individual<br>Productivity<br>not Captured                 | Business Unit<br>President  | Participants     Must see Need     for providing     Measurement                       |   |
| 2. Miscellaneous<br>Business<br>Measures | 2. Participant's<br>Estimate  | 2. Participant's Estimate - (Using Standard Values when available) | Travel/     Lodging     Meals              | Elsewhere     Stress     Reduction  | Senior Managers   | Follow-Up     Process will     be Explained     to Participants     during     program | 2. Participants will identify specific improvements as a result of meetings |
|  |   |  | Facilities                                 | <ul> <li>Improved         Planning         and         Scheduling     </li> </ul> | Managers of<br>Participants   | Three groups<br>will be<br>measured  | being<br>conducted<br>more<br>effectively                                   |
|  |   |  | Participant     Salaries Plus     Benefits | Greater     Participation     in Meetings   | <ul><li>Participants</li><li>Training and Development Staff</li></ul> |  |   |
|  |   |  |  |   |   |  |   |

Figure 6. ROI Analysis Plan

The ROI Methodology used for evaluating the Effective Meeting Skills program adhered to a set of operating standards or guiding principles as elaborated in Table 5. These guiding principles were established to keep the process consistent and conservative.

#### Results

The results of the study indicated that the program was successful. Participants enjoyed the workshop, but, even more important, they saw it as relevant and useful. Participants quickly grasped the ability to define meeting costs and began implementing the new knowledge and skills. Although there were some barriers to application, they were minimal. From the perspective of the division president, however, the impact on time spent in meetings was significant; the investment returned positive results.

#### Level 1: Reaction, Satisfaction, and Planned Action

Level 1 objectives included reaction and satisfaction measures important to improving facilitation, content, and materials. The key measures of interest, however, addressed issues indicating intent to use, including three defined actions to be taken upon return to the job. The measure of success was a minimum score of 4.0 out of 5.0. Results were successful in regard to relevance, importance, intent to use, and willingness to recommend the workshop to others. Only one measure (new information) fell below the 4.0 target. This was anticipated in that most of the concepts were familiar, but the packaging and tools provided a new perspective on the familiar topics.

The participants listed three defined actions they planned to take when returning to the job. The most noted action was implementing the meeting activity profile as a routine tool when reflecting on meetings each month. Also participants indicated they would follow the seven steps to conducting an effective meeting as listed in the program outline (see Figure 1).

#### Level 2: Learning

Level 2 objectives suggested that participants should be able to;

- identify the extent and cost of meetings
- identify positives, negatives, and implications of basic meeting issues and dynamics
- acquire effective meeting behaviors.

The meeting profile identifying costs of meetings was successfully completed by participants. They felt comfortable with the tool and indicated the ability to complete similar items during the follow-up. A simple multiple-choice test was administered to ensure that participants understood the basic issue of meetings. The average score the test was a 92 out of a possible 100.

Exercises and skill practice indicated that participants were equipped with the knowledge and skills to successfully conduct meetings while reducing the cost of meetings by conducting shorter meetings, fewer meetings, and including fewer meeting participants.

## Level 3: Application and Implementation

The follow-up evaluation (see Figure 4) took place 3 months after the workshop. Questions 4, 5, 6, 16, and 17 related to application of knowledge and skills. The fundamental question with regard to application was question 5, which assessed how much participants had changed their approach to planning and conducting meetings using the knowledge and skills they learned from the workshop. Table 4 summarizes the degree of change in behavior that occurred. For the most part, participants did change their meeting practices; 10 out of the 23 measures, however, indicated that change did not occur for some people. Providing feedback to participants (item g), providing feedback to meeting participants (item q), and evaluating the meeting process (item u), and planning follow-up activity (item w) appeared to be the least used skills.

|    |   | No<br>Change | Little<br>Change | Some<br>Change | Significant<br>Change | Very<br>Much<br>Change | No<br>Opportunity<br>To Use Skill |
|----|---|--------------|------------------|----------------|-----------------------|------------------------|-----------------------------------|
| A. | Participating Effectively in Meetings                       | 0            | 0                | 25%            | 44%                   | 31%                    | 0                                 |
| B. | Avoiding Meetings Unless they are Necessary                 | 0            | 0                | 19%            | 46%                   | 35%                    | 0                                 |
| C. | Minimizing the Number of<br>Participants Attending Meetings | 0            | 0                | 19%            | 50%                   | 31%                    | 0                                 |
| D. | Setting Objectives for Meetings                             | 0            | 0                | 25%            | 42%                   | 33%                    | 0                                 |
| E. | Developing an Agenda for Each Meeting                       | 0            | 4%               | 27%            | 44%                   | 25%                    | 0                                 |
| F. | Controlling Time of Meetings                                | 0            | 0                | 6%             | 44%                   | 50%                    | 0                                 |
| G. | Enhancing Participant<br>Satisfaction in Meetings           | 0            | 10%              | 31%            | 44%                   | 15%                    | 0                                 |
| H. | Arranging the Meeting Site for<br>Maximum Effectiveness     | 0            | 0                | 4%             | 65%                   | 31%                    | 0                                 |
| I. | Scheduling the Optimum Time for Meetings                    | 0            | 0                | 25%            | 42%                   | 33%                    | 0                                 |
| J. | Communicating the Ground Rules for Meetings                 | 0            | 4%               | 27%            | 44%                   | 25%                    | 0                                 |
| K. | Assigning Appropriate Roles for Meeting Participants        | 0            | 0                | 6%             | 44%                   | 50%                    | 0                                 |
| L. | Reaching Consensus in<br>Meetings When Appropriate          | 0            | 0                | 13%            | 52%                   | 35%                    | 0                                 |
| M. | Listening Actively to Meeting Participants                  | 0            | 0                | 4%             | 65%                   | 31%                    | 0                                 |
| N. | Encouraging Participation in Meetings                       | 0            | 0                | 25%            | 42%                   | 33%                    | 0                                 |
| Ο. | Using Brainstorming in Meetings When Appropriate            | 0            | 4%               | 27%            | 44%                   | 25%                    | 0                                 |

| P. | Dealing with Difficult Meeting Participants | 0 | 0   | 6%  | 44% | 50% | 0 |
|----|---|---|-----|-----|-----|-----|---|
| Q. | Providing Feedback to Meeting Participants  | 0 | 19% | 56% | 25% | 0   | 0 |
| R. | Handling Conflict in Meeting                | 0 | 4%  | 31% | 50% | 15% | 0 |
| S. | Keeping the Meeting on Focus                | 0 | 0   | 25% | 42% | 33% | 0 |
| T. | Accomplishing Meeting Objectives            | 0 | 4%  | 27% | 44% | 25% | 0 |
| U. | Evaluating the Meeting Process              | 0 | 10% | 38% | 38% | 15% | 0 |
| V. | Implementing Action Plans                   | 0 | 2%  | 33% | 46% | 19% | 0 |
| W. | Planning a Follow-up Activity               | 0 | 6%  | 42% | 35% | 17% | 0 |

Table 4. Level 3 Evaluation Responses

Examining the barriers (question 16) to the use of the knowledge and skills learned in the workshop shed some light on the reasons why there was less change in some areas than in others. The most often cited barrier was time. Some participant indicated they did no have the time to evaluate the success of the meeting or follow-up with meeting participants; however, others indicated that both of these actions were a valuable part of the meeting process.

Enabling factors (question 17) supported the use of meeting skills learned in the workshop. The most often cited enabling factors were the job aids and materials participants took with them from the course. The workbook was cited as being the most valuable tool. Some participants indicated that senior management's interest in the tools and the workshop encouraged them to take the application of what they learned seriously.

#### Level 4: Impact

The intended outcomes of the Effective Meeting Skills workshop were shorter meetings, fewer meetings, and fewer meeting participants. By applying the knowledge and skills learned in the workshop, improvement in these three time related measures occurred. Table 5 presents a comparison of the original meeting profile data obtained from participants during the program to the average post-program data. The average amounts taken from question 8 are subtracted from the average pre-program data to get the average post-program data. Only 31 participants (43 percent) responded to questions 8 and 9; the average confidence in the estimates for the group responding was 81 percent. The table shows that the intended outcomes (reduction in the number of meetings, less time spent in meetings, and fewer participants attending meetings) were achieved as a result of the program.

| <b>Current Meeting Activity (Month Before Prog</b>              | Average Pre-<br>Program Data | Average Post-<br>Program Data |      |
|---|------------------------------|-------------------------------|------|
| Number of meetings chaired each month                           | Α                            | 6.5                           | 5.2  |
| Average number of individuals attending each meeting each month | В                            | 7.2                           | 5.1  |
| Average length of time for each meeting (in hours)              | С                            | 2.6                           | 1.7  |
| Total Time Consumed in Meetings (A $\times$ B $\times$ C)       | D                            | 121.68                        | 45.1 |

| 1.3 |
|-----|
|     |
| 0.9 |
|     |
| 2.1 |
|     |

| Number completing programs Number of questionnaires Returned Number of questionnaires with usable data for questions 7 and 9 Average value of confidence level from question 9 | 72 (3 groups)<br>48 (67 percent)<br>31 (43 percent)<br>81 percent |
|--|---|
| · ·  | , ,   |

Table 5. Improvement in Time Spent on Meetings

Other measures improved as a result of the program as well. Respondents indicated improvement in overall productivity and quality of the meetings and six managers placed monetary values on these measures. However, the monetary payoff of the program is based on the time savings from the above measures. The other measures were reported as "other benefits" because they were not as credible as the time savings.

#### Level 5: ROI

The ROI for the Effective Meeting Skills workshop was calculated based on time savings. To calculate the ROI, improvement in time savings due to shorter meetings, fewer meetings, and fewer meeting participants were converted to monetary value and then compared to the costs of the program.

## Monetary Benefits

The data conversion technique used was a standard value of time, which equates to average hourly compensation of attendees plus the benefits factor of 32 percent. The average hourly cost of an attendee was calculated to be \$31. As shown in Table 6, an average monthly savings in meeting costs based on the three measures was \$2,373.98. This Figure represents the average value at the 3-month point when the follow-up data was collected. The ROI is an annual value, and the division president wanted to see a payoff within 1 year; the savings were annualized using this monthly average, yielding a monetary benefit of \$28,487.76 for one participant.

| Current Meeting Activity (Month Before Progra                   | Average Pre-<br>Program Data | Average Post<br>Program Data |             |     |
|---|------------------------------|------------------------------|-------------|-----|
| Number of meetings chaired each month                           | Α                            | 6.5                          | 5.2         | _   |
| Average number of individuals attending each meeting each month | В                            | 7.2                          | 5.1         | _   |
| Average length of time for each meeting (in hours)              | С                            | 2.6                          | 1.7         | _   |
| Total Time Consumed in Meetings (A $\times$ B $\times$ C)       | D                            | 121.68                       | 45.1        | _   |
| Average hourly compensation of attendees (Salary plus benefits) | E                            | \$31.00                      | \$31.00     |     |
| Total Meeting Costs (D × E)                                     | F                            | \$3,772.08                   | \$1,397.60  | _   |
| Meetings Avoided  |                              |                              |             | _   |
| Estimate of number of meetings avoided each m                   | 1.3                          | G                            |             |     |
| Shorter Meetings  |                              |                              |             |     |
| Estimate of average time saved per meeting (in hours)           |                              |                              | 0.9         | Н   |
| Reduced Participants in Meetings                                |                              |                              |             |     |
| Estimate of number of participants reduced for each me          | eting                        |                              | 2.1         | . I |
| Total Savings<br>Monthly meeting savings (Pre – Post Costs)     |                              |                              | \$2,373.98  | J   |
| Annual Savings (J × 12)   |                              |                              | \$28,487.76 | K   |

Table 6. Monetary Benefits of Time Savings

To calculate the full benefits of the program, the monthly value was multiplied by the number of participants who provided useable data (31); the error adjustment was also considered (81 percent). The full value of the Effective Meeting Skills workshop was:

$$($28,487.76 \times 31) \times 0.81 = $715,327.65$$

## Fully Loaded Costs

Program costs included the program fee, which incorporated materials and facilitator costs; travel, lodging, and meals for participants; facilities; participants' time in the workshop (salaries and benefits); and evaluation costs. Even though the benefits were calculated only for those responding, program costs accounted for all participant costs. The fully loaded costs of the Effective Meeting Skills workshop are shown in Table 7.

| Item                   | Calculation                      | Cost      |
|------------------------|----------------------------------|-----------|
| Program Fee            | \$800 per participant × 72       | \$57,600  |
| Travel, Lodging, Meals | \$245 × 72                       | \$17,640  |
| Facilities             | \$190 × 6*                       | \$1,140   |
| Participant Time       | \$219 per day × 1.32 × 2 × 72)** | \$41,628  |
| Evaluation Costs       |                                  | \$5,000   |
|                        | Total Costs                      | \$123,008 |

<sup>\*</sup>Facilities cost \$190 per day; the workshop required 2 days and was offered to three groups.

Table 7. Costs Used in the ROI Calculation for the Effective Meeting Skills Workshop

The return on investing in the Effective Meeting Skills workshop was 482 percent as shown by the calculation below.

$$ROI = \frac{\$715,327.65 - \$123,008}{\$123,008} \times 100 = 482\%$$

The ROI told the division president that for every dollar spent on the workshop, TechnoTel received \$4.82 after costs. On the surface, the ROI seemed high in comparison to other investments. But, because the division president knew the value of time and knew how much time had been wasted in meetings in the past, the ROI

<sup>\*\*</sup>Participant time includes average salaries of \$219 per day multiplied by the benefits factor of 32 percent. Each participant was in the workshop for 2 days; the cost accounts for all 72 participants.

calculation was believable. The evaluation team had been diligent in advising the division president of the evaluation process and keeping him abreast of the findings, thereby enhancing the credibility of the ROI process.

# Intangible Benefits

The financial impact to TechnoTel was an important outcome of the evaluation; however, other important outcomes occurred as well. Along with improvement in overall productivity and quality of meetings, employees and their supervisors in TechnoTel were becoming happier in the work setting due to the reduction in wasteful meetings. The groups who had attended the Effective Meeting Skills workshop took the process seriously and had a keen desire to improve their meeting process; therefore, tools were being implemented. This also helped improve customer satisfaction--both external and internal customers. Respondents to the evaluation reported being more accessible and more focused on customer concerns.

An interesting unexpected benefit of the program was that the division president began using the meeting profile worksheet as a tool to manage the cost of his own meetings. He asked that his senior leaders do the same. The tool has become a time management tool throughout this division of TechnoTel.

# **Communication Strategy**

The success of the ROI study at TechnoTel can be attributed to the continuous communication throughout the process. From the outset, the division president was kept informed of the progress with the study. He was involved in the planning stage and data collection. As results at Levels 3 and 4 began rolling in, the evaluation team kept him informed. Once the study was completed and the division president was aware of the results, the senior management team participated in a 1-hour briefing. Because there were several new senior managers who were unfamiliar with the evaluation practice at TechnoTel, a full presentation was conducted. The presentation topics included:

- need for effective meetings
- program design
- need for evaluation
- evaluation methodology
- evaluation results.

At the end of the presentation, each person received a copy of the complete report as well as a summary copy.

Based on the questions and the response to the presentation, the senior management saw the evaluation process as credible. Even more important, they saw the value of the Effective Meeting Skills workshop and asked that the program be implemented in other areas of TechnoTel.

#### **Lessons Learned**

Regardless of the number of evaluation studies conducted, there are always lessons to learn. Because the evaluation team thought there was an understanding of the evaluation process, they did not spend time explaining questions 7, 8, and 9; had they done a better job covering those questions on the questionnaire, they might have achieved a greater response rate.

Because evaluation is routine at TechnoTel, the questionnaire administration strategy seemed appropriate; however, with only a 67 percent response rate, there was room for improvement.

#### **Questions for Discussion**

- 1. What steps could have been taken to ensure a higher response rate, especially for questions 7, 8, and 9 on the questionnaire?
- 2. How credible are the time savings data?
- 3. How credible is the study?
- 4. How credible is the analysis of the study?
- 5. How would you have approached the evaluation strategy for the Effective Meeting Skills workshop?

#### **The Authors**

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Patti Phillips, PhD – President and CEO of the ROI Institute, Inc., Patti earned her doctoral degree in International Development and her Master's Degree in Public and Private Management in Public and Private Management. Early in her professional career, Patti was a corporate manager who observed performance improvement initiatives from the client perspective and knew that results were imperative. As manager of a market planning and research organization for a large electric utility, she and her team were responsible for the development of electric utility rate programs for residential and commercial customers. In this role, she played an integral part in establishing Marketing University, a learning environment that supported the needs of new sales and marketing representatives. Internationally known as an accountability, measurement, and evaluation expert, Patti facilitates workshops all over the world and consults with USA and international organizations - public, private, non-profit, and educational – on implementing the ROI Methodology <sup>™</sup>. Patti is the author of *The* Bottomline on ROI, CEP Press (2002), which won the 2003 ISPI Award of Excellence. She is editor or co-author of ROI Basics (ASTD 2006), ROI at Work: Best-Practice Case Studies from the Real World (ASTD Press 2005), Proving the Value of HR: How and Why to Measure ROI (SHRM 2005), The Human Resources Scorecard: Measuring the Return on Investment (Butterworth-Heinemann, 2001), and Measuring ROI in the Public Sector (ASTD 2002).