DOCUMENT RESUME

ED 464 674 JC 020 366

AUTHOR Taylor, Marjorie

TITLE The Development of an Instrument for Assessing the Reaction

of Participants and Their Supervisors to the Effectiveness of Workforce Training Programs in the Mississippi Delta.

PUB DATE 2000-12-00

NOTE 112p.; Doctoral Dissertation, Delta State University

(Mississippi).

PUB TYPE Dissertations/Theses - Doctoral Dissertations (041)

EDRS PRICE MF01/PC05 Plus Postage.

DESCRIPTORS *Community Colleges; *Educational Assessment; *Evaluation

Methods; Evaluation Research; Job Training; *Labor Force Development; Methods Research; *Program Evaluation; *State

Legislation; Two Year Colleges

IDENTIFIERS *Mississippi

ABSTRACT

In 1994, the Mississippi legislature enacted the Workforce Education Act, Senate Bill 2955, which called for the creation of One-Stop Career Centers affiliated with each community college district. The mission of the One-Stop Career Centers was to provide assessment, training, and placement services to individuals needing training, retraining, and upgrading for local industry. The purpose of this study was to develop an evaluation instrument to assess the effectiveness of workforce training programs provided by these career centers. The study was conducted in two phases. Phase 1 was the development and pilot test of the instrument for recording the reactions of the participants and their supervisors toward the effectiveness of the training programs. Phase 2 of the study consisted of field testing the instrument in two local community college districts. Based on the data collected from the study, it was concluded that the programmatic effectiveness of workforce training programs could be evaluated immediately using the instrument developed for this study; however, the personal effectiveness and the external effectiveness of training programs could not be evaluated immediately using the instrument. (Contains 5 tables, 49 references, and 6 appendices, including the survey instrument.) (KP)



THE DEVELOPMENT OF AN INSTRUMENT FOR ASSESSING THE REACTION OF PARTICIPANTS AND THEIR SUPERVISORS TO THE EFFECTIVENESS OF WORKFORCE TRAINING PROGRAMS IN THE MISSISSIPPI DELTA

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by

MARJORIE TAYLOR

A DISSERTATION

Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Education in Professional Studies

Delta State University

Cleveland, Mississippi

December, 2000



ABSTRACT

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by Marjorie Taylor

EDD, Delta State University

Cleveland, Mississippi

December, 2000

Major Committee Chair: Jane L. Weare

In 1994, the Mississippi legislature enacted the Workforce Education Act, Senate Bill 2955, which called for the creation of One-Stop Career Centers affiliated with each community or junior college district. The mission of the One-Stop Career Centers was to provide assessment, training, and placement services to individuals needing retraining, training, and upgrading for local industry.

At the time of the present study, the only standardized form of collecting programmatic data from the One-Stop Career Centers to determine their effectiveness was the Legislative Accountability Report. The purpose of this study was to develop an evaluation instrument to assess the effectiveness of workforce training programs provided by Mississippi's One-Stop Career Centers. The evaluation instrument was designed to



assess the reaction of participants and their supervisors toward the effectiveness of training programs conducted by the One-Stop Career Centers. Nancy D. Padak and Gary M. Padak's workplace training effectiveness categories of programmatic, personal, and external provided the framework for this instrument.

The study was conducted in two phases. Phase I was the development and pilot test of the instrument for recording the reactions of the participants and their supervisors toward the effectiveness of the training programs. Phase II of the study consisted of field testing the instrument in two local community college districts. Phase II results were used to compare the responses of the training program participants and their supervisors.

Based on data collected from the study, it was concluded that the programmatic effectiveness of workforce training programs could be evaluated immediately using the instrument developed for this study. However, the personal effectiveness and the external effectiveness of training programs could not be evaluated immediately using the instrument developed for this study.

From the findings of the study, the researcher recommended that it be continued with several workforce training programs. The evaluation instrument should be administered to the supervisors and participants after they have had ample time to use the skills learned and observe changes in behavior. Additional research was needed in order to determine if there were differences in responses from participants in voluntary and mandatory training programs.



DELTA STATE UNIVERSITY Cleveland, Mississippi

SCHOOL OF GRADUATE STUDIES

Name of Candidate Marjorie Taylo

Title of Dissertation THE DEVELOPMENT OF AN INSTRUMENT FOR

ASSESSING THE REACTION OF PARTICIPANTS AND THEIR SUPERVISORS TO THE EFFECTIVENESS OF

WORKFORCE TRAINING PROGRAMS IN THE

MISSISSIPPI DELTA

Approved by:

Major Committee

Jane L. Weare, Chair

Camille Branton

Rose Strahan

Rose Suanan

Frederick Woodall

Jerry L. Young

Division Chair

Dean, College of Education

Sue Jolly

E.E. Caston

Date December 2000



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ACKNOWLEDGMENTS

The completion of this dissertation would not have been possible without the assistance of many people. Support from my family, friends, and associates provided the encouragement and inspiration necessary for me to complete this long journey.

I am indebted to my committee members for their help, expertise, and guidance.

Dr. Jane Weare, Chair of the committee, was always available to offer advice,
constructive criticism, and insight when I reached an impasse in writing or analyzing
data. Drs. Camille Branton, Rose Strahan, Fred Woodall, and Jerry Young, who were
also my teachers, offered their talents time and again.

To my children, Lauren and Spencer, you may never realize the inspiration you provided to me during this project. Although you were too young to understand why your Mommy was always at the computer, you seemed to provide me with pleasant diversions when I desperately needed a break.

I offer thanks to my parents, Fred and Pauline Akers, who have always offered their support throughout my many years of school. To my sister and friend, Leigh Ann, thank you for helping me with the children and for always being there for me to talk to.



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I owe much gratitude to Bob and Shirley Taylor, my father-in-law and mother-inlaw. I appreciate your encouragement and am especially thankful for the many times you were always willing and available to keep the children for me.

Finally, I would like to thank my husband, Robert. I would never have reached this point in my life without your love and support. For the countless times you and our children disappeared for hours, just so I could have quiet time to think and write, I am eternally grateful. Your patience and understanding were unending and provided the inspiration I needed to complete this project.



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CHAPTER I

INTRODUCTION

In an effort to reorganize workforce preparation in Mississippi, the Mississippi Community College Foundation, a publicly funded not-for-profit corporation of community and junior colleges in Mississippi, formed the Millennium Group in 1992. In the Millennium Group's report to the people of Mississippi, the group called for a "New Wave of Reform" in education (Mississippi Community College Foundation, 1993), one that included the education of adults. The future economic and social prosperity of Mississippi depended on a well-educated workforce.

The Millennium Group recognized the immediate need for an institutionalized statewide delivery system of workforce training. The Group recommended that Mississippi's community colleges serve as the primary, if not sole, providers of workforce training, thus transforming them into "major economic and workforce development tools" (Mississippi Community College Foundation, 1993, p. 10). The Millennium Group cited an immediate recommendation to "establish one-stop career centers on each campus with the capacity to recruit, assess, counsel, and place in jobs or training anyone who is or ought to be in the labor force" (Mississippi Community College Foundation, 1993, p. 10).



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Based on the immediate recommendations of the Millennium Group,
Mississippi's Workforce Education Act of 1994, Senate Bill 2955, was enacted by the
Mississippi legislature. This legislation called for the creation of One-Stop Career
Centers affiliated with each community or junior college district (S. 2955 § 37-153-11,
1994). The mission of the Workforce Education Act of 1994 was as follows:

... to provide for the creation and development of a regionally based system in Mississippi for education and training which: responds to the needs of Mississippi's workforce and employers; is driven by the demands of industry and a competitive economy; makes maximum use of limited resources; and provides for continuing improvement through constant assessment of the results of education for individual workers and employers. (S. 2955, 1994)

It has been six years since the enactment of Mississippi's Workforce Education Act of 1994. Has the mission of the legislation being achieved? How are the One-Stop Career Centers functioning in their individual quest to fulfill the mission? And what adjustments, if any, need to be made to better meet the demands of industry and the economy? These questions provided the foundation for the present study.

The most effective and reliable way to answer these questions was to analyze evaluative data from each One-Stop Career Center. At the time of the present study, the only standardized form of collecting programmatic data was the Legislative Accountability Report (see Appendix A). One-Stop Career Centers sent this report annually to each organization for which they had provided training. Data were compiled and reported to the State Workforce Development Council and the State Legislature. Any other evaluative data which may have been collected indicating the effectiveness of each



One- Stop Career Center's training programs remained at the discretion of the individual Center director.

One-Stop Career Center directors at Mississippi Delta Community College and Coahoma Community College indicated that the Legislative Accountability Report did not adequately assess the effectiveness of their individual One-Stop Career Center's programs in meeting the needs of the employers in their districts (personal communication, October 12, 1999). They both realized the necessity for periodic program evaluations to ensure continuous improvement.

Statement of the Problem

The problem of this study was to establish a method of collecting evaluative data indicating the effectiveness of workforce training programs conducted by Mississippi's One-Stop Career Centers.

Purpose of the Study

The purpose of this study was to develop an evaluation instrument to assess the effectiveness of workforce training programs. Nancy D. Padak and Gary M. Padak's workplace training effectiveness categories provided the framework for this instrument. Padak and Padak's (1991) effectiveness categories included programmatic, personal, and external factors.



Programmatic factors included the program structure and the program content.

The personal category included measures of effectiveness directly related to adult learning, such as academic achievement and quality of life. The external category included context-based and financial factors. Context-based factors referred to the rate of participation and the extent to which the program met the needs of identified external groups. Financial factors included the extent to which the participant's earning power had increased as a result of the training.

The evaluation process was multi-level, consisting of the participation of the employees and their supervisors. The employees and their supervisors responded to the questions on the instrument. A comparison of the descriptive data was made.

Conclusions were drawn as to the effectiveness of the workforce training program.

The present study was conducted in two phases. Phase I was concerned with the development of the instrument for recording the reactions of the participants and their supervisors toward the effectiveness of the completed workforce training programs. The instrument was designed to be completed quickly and easily to ensure the participation of the management staff (McMillan & Schumacher, 1997).

The instrument was piloted in one community college district. The pilot test for this instrument was conducted for the purpose of analyzing each item. Results from the pilot test were used by the researcher to make necessary revisions to the items.



Research Questions

The study proposed to answer the following question in Phase I:

1. What items should be included on the instrument to effectively assess both participant and supervisor reactions in the three effectiveness categories (programmatic, personal and external)?

Phase II of the study consisted of field testing the instrument in the districts of Coahoma Community College and Mississippi Delta Community College. Phase II results were used to compare the responses of the participants and their supervisors.

The study proposed to answer the following questions in Phase II:

- 1. Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the programmatic effectiveness of the recently completed workforce training program?
- 2. Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the personal effectiveness of the recently completed workforce training program?
- 3. Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the external effectiveness of the recently completed workforce training program?



Delimitations

The following delimitations applied to the study:

- The study was conducted with organizations which, had participated in or, were participating in training programs with two of Mississippi's 15 community colleges.
- 2. The instrument developed for this study was the only instrument used to assess the reaction of participants and their supervisors to the effectiveness of the workforce training programs.

Assumptions

The following assumptions were made regarding this study:

- The organizations that participated in this study were representative of the organizations receiving training through Mississippi's One-Stop Career Centers.
- 2. The two community colleges that participated in the study were representative of other community colleges in Mississippi and in the nation.
- 3. Data gathered from the administration of the evaluation instrument were assumed to be true responses from employees and their supervisors.



Definitions

Interpretation of the study required the definition of the following terms:

Basic skills specialist. The One-Stop Career Center staff member responsible for the design, implementation, and coordination of workforce training programs focusing on reading, writing, and mathematical skills.

Industrial coordinator. The One-Stop Career Center staff member responsible for the design, implementation, and coordination of workforce training programs focusing on the technical aspects of the business; such as, machine operation skills, safety skills, and quality control techniques.

Legislative Accountability Report (LAR). The method for providing accountability and quality assurance for the One-Stop Career Center system within Mississippi's State Board for Community and Junior Colleges.

One-Stop Career Centers. The affiliate of the community college responsible for providing assessment, training, and placement services to individuals needing retraining, training, and upgrading for local industry (S. 2955 § 37-153-11, 1994).

<u>Program evaluation</u>. Planned process of gathering and analyzing data to help make better decisions concerning a program.

Reaction. The level of evaluation indicating how participants feel about the training program (Kirkpatrick, 1998).



State Workforce Development Council. Created through Mississippi's Workforce Education Act of 1994 to serve in an advisory capacity for the One-Stop Career Centers and monitor their effectiveness (S. 2955 § 37-151-69, 1994).

Supervisor. Person in direct charge of the employee.

<u>Trainee</u>. Participant in an education program.

<u>Training program</u>. A synonym for workforce training program.

<u>Training program effectiveness</u>. The extent to which the training program meets the intended or expected results.

Workforce. All people working or available to work.

Workforce specialist. The One-Stop Career Center staff member responsible for the design, implementation, and coordination of workforce training programs focusing on application-oriented educational tasks; such as, teaching job-specific reading competencies with the use of actual job-related reading materials.

Workforce training program. Any educational initiative based on the objectives of the business that is designed to improve one's skill requirements of the job.

Design of the Study

This study was conducted as a developmental study, the result of which was an evaluation instrument used in assessing the effectiveness of workforce training programs.

The evaluation instrument was developed with the assistance of workforce training experts in Mississippi's One-Stop Career Centers. The instrument was piloted in one of Mississippi's community college districts.



Field testing of the instrument occurred in two of Mississippi's community college districts. Results were used to compare the responses of the participants with those of their supervisors. The instrument served as a model which could be implemented statewide.

Summary

The preceding material presented in this chapter outlined the purpose of the study. Chapter II will address the review of literature as it pertains to the present study. Chapter III will present procedures used in this study. Chapter IV will present the data collected. Chapter V will present the conclusions drawn from this study.



CHAPTER II

REVIEW OF RELATED LITERATURE

The purpose of this study was to develop an evaluation instrument to assess the effectiveness of workforce training programs. Chapter II reviews the literature of research in areas related to the present study. The information is subdivided by topic. First to be considered is research focused on the need for workforce training, both in the South and in Mississippi. Secondly, research that describes training program evaluation will be reported. Lastly, research dealing with developing and administering questionnaires will be presented.

Need for Workforce Training

The South

The nation, particularly the South, is facing an impending workforce crisis.

Globalization and technological innovations are rapidly changing the nature of the workplace (Judy & D'Amico, 1997). These changes profoundly affect the American worker. The South is experiencing rapid growth in high-skill, high-wage occupations, while low-wage, low-skill occupations are growing more slowly. Judy & D'Amico further state that unless the education and skill levels of the American workforce are



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upgraded, America's productivity and prosperity will suffer. Investing in education and training over an entire lifetime has now become a fact of life. Lifelong learning has become the norm rather than the exception (National Alliance of Business, 1998).

The South's economy was fueled during the 1970's and 1980's by a stream of educated young people entering the workforce (Manpower Development Corporation [MDC], Inc., 1996). The elimination of legal racial segregation in employment and improvements in the quality of life made the South more attractive to business and industry. Today, however, there is a slow growth in the workforce. These demographic trends now present the South with a workforce imbalance (MDC, Inc., 1997).

A report by MDC, Inc. (1996), The State of the South, acknowledges that for the next 15 years, the South will have to compete in the global marketplace largely with the people already in its labor force. MDC, Inc. (1992, August) cites that the vast majority of workers in the year 2010 are already on the job today. Between 1996 and 2010, the region will have eight million more people between the ages of 45 and 64, while the number of workers between the ages of 20 and 44 will decrease by 800,000 (Judy & D'Amico, 1997).

The eight million person "bubble" will amount to a substantial aging of the workforce (MDC, Inc., 1996, p. 3). Most of these people are already deep in their working lives and view formal schooling as a long-ago experience (MDC, Inc., 1996). At a time when the American workplace is demanding literacy, numeracy, and critical thinking skills, the current workforce is limited by educational deficiencies (MDC, Inc.,



1992, September). The Southern economy remains heavily dependent on the skills of the "baby boomers," most of whom have not retired and will still hold jobs in the year 2015.

As a result, the region must provide massive education and retraining for the older adult workforce which will carry a disproportionate economic burden of supporting three million more elderly and almost one million more schoolchildren by the year 2010 (MDC, Inc., 1997). New entrants to the labor force must be dramatically better prepared. This requires a new social contract on education and training for the region, one that broadens education reform to include education and training for adults (MDC, Inc., 1992, September). America, and especially the South, cannot sustain even its current level of prosperity unless it improves workforce skills.

Community College System for Workforce Training

The comprehensive community college system has become recognized as the leading provider of the workforce development needs of adults. MDC, Inc. (1998, September) reports that the South's community colleges are the "workforce's repair shop" as they prepare young people, uneducated adults, and college graduates with up-to-date skills. When they work in tandem with employers, the workforce training they provide can be a powerful catalyst for economic development (MDC, Inc., 1998, May).

Zeiss and Associates (1997) note that community colleges have many strengths that put them at the center of an effective workforce development system.



These strengths include the following:

- 1. They provide flexible course offerings that fit the needs of businesses and students.
 - 2. They are in touch with the needs of employers for workforce training.
 - 3. They are equipped to educate nontraditional students.
- 4. They are located within financial and geographic reach of most of the population.

The knowledgeable worker is absolutely necessary for America to compete in a global economy. On average, employers report that one out of every five workers do not have the necessary skills for full proficiency on the job (Gore, 1998, January 12). Furthermore, 88 percent of companies have difficulty finding qualified applicants for at least one job function. The estimated total cost, including lost productivity, substandard performance, and unemployment insurance, of undereducated workers in the Southeast is in excess of \$57.2 billion per year (Mendel, 1992). The key to America's economic future is to better educate students and train existing workers. Clearly, the role of the community colleges in providing quality workforce training has never been more important (Zeiss & Associates, 1997).

Mississippi's One-Stop Career Centers

Mississippi recognized the necessity of a dramatically improved workforce in the early 1990's. Workforce training was the focus of two major studies in the 1991-1993 period. In 1991, the Commission on Work Force Excellence, a group of Mississippi



business leaders and state officials, completed a study on the effectiveness of federal and state funded training programs offered by four state agencies (Howell, 1996). Howell further stated that the commission recommended that an employer-driven Quality Work Force Council be established at the state level to coordinate development standards for workforce training programs.

The second study entitled <u>Building a New Workforce for a New Century</u> was conducted in 1993 by the Millennium Group. The Millennium Group was organized in late 1992, following a study tour of the German dual educational system by two community college presidents and the Executive Director of the Mississippi Community College Foundation. Sixty-nine Mississippi leaders from every facet of business, industry, education, and public service agreed to serve on the task force (Mississippi Community College Foundation [MCCF], 1993). The charge of the Millennium Group task force was to research and develop a plan by which Mississippi's workforce could become internationally competitive.

The Millennium Group's recommendations included the identification of Mississippi's community and junior colleges as the one-stop sites that could provide workforce training to business and industry while offering counseling, assessment, and training services to those seeking to enter the workforce (Howell, 1996). This recommendation prompted a workforce training bill which was introduced in the January 1994 legislative session. Howell (1996) cites that this piece of legislation worked its way through all committees and both houses to the governor's desk without a dissenting vote: "an unprecedented show of support for a major piece of legislation" (p.552). The



workforce training system established by the Mississippi Workforce Education Act of 1994, Senate Bill 2955, has since become a model for the nation (Vickers, 1995).

One-Stop Career Centers are now located at each of Mississippi's 15 community and junior colleges to deliver workforce training and services to industries and individuals. An employer-driven state workforce development council and 15 district councils are charged with setting the workforce training agenda for Mississippi (MCCF, 1994).

Training Program Evaluation

Lack of Training Program Evaluation

Organizations in America are spending in excess of \$40 billion each year on training (Shapiro, 1995). Mississippi businesses contributed more than \$21 million to workforce training in fiscal year 1999 (Mississippi State Board for Community and Junior Colleges, 1999). Are these companies getting the quality training they deserve? Are they getting the maximum return on their investment? A well-designed, systematic program evaluation can help provide answers to these questions.

Unfortunately, the effort devoted to training program evaluation and the state of evaluation methodology leave much to be desired (Goldstein, 1974; Bell & Kerr, 1998). Compared to the number of training programs, very few program evaluations have been conducted and published. Fewer than half of America's training programs are formally evaluated (Carnevale & Schulz, 1998). Tracey (1968) cites the lack of interest in



evaluation as a consequence of two factors: (a) the nature of training and development programs themselves, and (b) the absence of a suitable conceptual framework for meaningful evaluation. Shapiro (1995) asserts that no universally accepted model of training evaluation exists, hence the difficulty in the evaluation process.

Research indicates a variety of reasons for the lack of adequate evaluation.

However, there is a consistency in these views which includes the following:

- 1. There is considerable difficulty in establishing acceptable criteria for program evaluation (Tracey, 1968; Goldstein, 1974; Woodington, 1980; McEvoy, 1998).
- 2. There is a serious lack of personnel trained in the methodology of evaluation (Tracey, 1968; Goldstein, 1974; Woodington, 1980; Hilbert, Preskill, & Russ-Eft, 1997).
- 3. The scope and strategies of evaluation are greatly influenced by the nature and type of organization (Goldstein, 1974; Woodington, 1980).
- 4. The personnel responsible for training are not responsive to the need for evaluation or are fearful of the entire process (Tracey, 1968; Goldstein, 1974; Woodington, 1980; Mikulecky & Lloyd, 1993; Boulmetis & Dutwin, 2000).

Need for Program Evaluation

People do not agree on one definition of evaluation. Most will agree, however, that evaluation is a process of collecting and analyzing data (Boulmetis & Dutwin, 2000). Boulmetis and Dutwin further state that the process is guided by the reason for doing the evaluation. Hence, training program evaluation may be defined as the process of



collecting and analyzing data for the purpose of making certain decisions about the efficiency, effectiveness, or impact of the program (Carnevale & Schulz, 1998; Merwin, 1992; Kirkpatrick, 1998).

Research points to three critically important reasons for an adequate evaluation program: (a) fiscal purposes, (b) justification of the program, and (c) program improvement (Tracey, 1968; Kirkpatrick, 1998; Boulmetis & Dutwin, 2000). According to Tracey (1968), several fundamental assumptions underlie the need for evaluating training programs. The assumptions include the following:

- 1. Any training program must be validated; the efficiency and effectiveness of programs must be objectively determined.
 - 2. Any training or development program can be improved.
- 3. Improvement of any training or development program can be affected by objective and coordinated evaluation of every aspect of the operation, the application of creative thinking by all personnel, deliberate collection of data from all personnel, critical analysis of all data, and systematic development and tryout of policies and procedures needed to carry out plans.

Effective Program Evaluation

An effective evaluation of training programs must be conducted in such a way that it is consistent with the purposes, objectives, and goals of the training activity. Research



indicates a common set of principles which should guide all evaluative efforts. These include the following:

- 1. Evaluation must be conducted in terms of purposes; in other words, the purposes of the evaluation process must be clear to all involved (Tracey, 1968; Phillips, 1998; Rossi, Freeman, & Lipsey, 1999).
- 2. Evaluation must be collaborative and involve all stakeholders in the design and implementation (Tracey, 1968; Merwin, 1992; Mikulecky & Lloyd, 1993; Hilbert et al., 1997; Phillips, 1998; Boulmetis & Dutwin, 2000).
- 3. Evaluation must be continuous (Tracey, 1968; Goldstein, 1974; Robinson & Robinson, 1989; Merwin, 1992; Mikulecky & Lloyd, 1993; Hilbert et al., 1997; Kirkpatrick, 1998; Phillips, 1998; Rossi et al., 1999; Boulmetis & Dutwin, 2000).
- 4. Evaluation must be specific to the program (Tracey, 1968; Goldstein, 1974; Merwin, 1992; Phillips, 1998; Rossi et al., 1999).
- 5. Evaluation must include procedures for implementing and communicating the evaluation process and progress to all stakeholders (Tracey, 1968; Goldstein, 1974; Merwin, 1992; Mikulecky & Lloyd, 1993; Hilbert et al., 1997; Kirkpatrick, 1998; Phillips, 1998; Rossi et al., 1999; Boulmetis & Dutwin, 2000).

According to Shapiro (1995), the measure of a training program's quality is its effectiveness. Training is effective to the degree that it produces the desired behavior in the population being trained. Moreover, a training program is considered to be effective when each participant is able to use the knowledge and skills taught in the program to bring about a desired result on the job (Merwin, 1992; Garavaglia, 1998; Shapiro, 1995;



Boulmetis & Dutwin, 2000). Parry (1997) states that a training program is most successful when "the right participants receive the right knowledge, attitudes, and skills taught by means of the right methods, media, and instructor at the right time and place so as to meet or exceed the organization's expectations" (p. 1). As reported by Carnevale and Schulz (1998), the purpose of training is to improve performance, and the purpose of evaluation is to improve training's effectiveness and efficiency.

The key to effective training and evaluation is a needs assessment of the learner and the work environment before, during, and after training (Shapiro, 1995; Gordon, 1996; Robinson, D. G., 1996; Parry, 1997; Rossi et al., 1999). This is an important concept in the "Training-for-Impact" approach as defined by Dana G. Robinson and James C. Robinson (1989). Unfortunately, many training and development professionals fall into the "Training-for-Activity" trap. According to Dana G. Robinson (1996), this mind set focuses strictly on the activity of training, i.e., the number and variety of programs conducted, the number of participants, and any other factors for which the training provider may be held accountable.

In contrast, the "Training-for-Impact" approach establishes a "causal link" between a skill deficiency and a specific business problem (Gordon, 1996; Rossi et al., 1999). This approach allows for much more effective training and evaluation. Dana G. Robinson and James C. Robinson (1989) define the focus of "Training-for-Impact" as being:

results-oriented training that is driven by business needs, helps the organization achieve its goals, provides people with the skills and knowledge they need to



improve their performance, assesses readiness of the work environment to support learned skills, has management accepting the responsibility for a supportive work environment that encourages skills transfer, and has measurable results that can be tracked. (p. 10)

These factors must be built into the design of the training system before any training takes place (Robinson & Robinson, 1989).

Program Effectiveness Categories

The measures of success of a training program are the standards by which the value of the program can be judged. In developing categories of training program effectiveness, Nancy D. Padak and Gary M. Padak (1991) researched 19 program descriptions listing evaluative criteria. These criteria were grouped into three broad categories, each with subcategories, for determining program effectiveness:

(a) programmatic, (b) personal, and (c) external.

The category of programmatic includes information on the program structure and program content. Kirkpatrick (1998) lists examples of questions to ask in evaluating program structure and program content including:

- 1. Does the subject content of the training program meet the needs of those attending?
 - 2. Are the training facilities satisfactory?
 - 3. Is the schedule of the training program appropriate for the participants?
 - 4. Was the coordination of the training program satisfactory?



The personal category includes measures of effectiveness directly related to the participant. Subcategories consist of academic achievement and quality of life.

According to Kirkpatrick (1998), academic achievement and quality of life can be evaluated by determining one or more of the following:

- 1. What knowledge was learned?
- 2. What skills were developed or improved?
- 3. What attitudes were changed?
- 4. To what extent did the participant's self-esteem increase?

External indicators of effectiveness include context-based and financial factors. Context-based factors refer to the extent the program meets the needs identified by external groups, such as the participant's supervisor. The extent the program shows a return on investment is considered a financial factor. The return on investment may include a savings to the industry or an increase in the participant's earning power (Kirkpatrick, 1998).

Formative and Summative Evaluation

Heideman (1998) notes that evaluation is both a systematic and a systemic part of all training development. Without systematic evaluation, there is no feedback to provide the information necessary to improve programs or quality information to make decisions (Goldstein, 1974). Research indicates two main types of evaluation which occur during training design: (a) formative, and (b) summative.



Formative evaluation is a systematic process in which assessments are made while development takes place. It occurs during the design and delivery of the training program (Goldstein, 1974; Robinson & Robinson, 1989; Isaac & Michael, 1995; Parry, 1997; Heideman, 1998; Boulmetis & Dutwin, 2000). Formative evaluation focuses on continuous improvements to the instructional materials and the instructional design process itself. Its purpose is to identify problem areas which can be addressed and modified while change is still possible and productive (Mikulecky & Lloyd, 1993). Information is collected to determine the appropriateness and effectiveness of the program's learning activities and content (Robinson & Robinson, 1989).

End-of-course evaluation is referred to as summative evaluation. This evaluation occurs after training has been completed and helps assess the worth of the training intervention (Isaac & Michael, 1995; Heideman, 1998). Parry (1997) refers to summative evaluation as the process of measuring the learner's performance after training and the degree to which the behavior back on the job meets the expectations that prompted the training. According to Dana G. Robinson and James C. Robinson (1989), the primary purpose for summative evaluation is to identify the impact of the program on individuals and on the organization, thus measuring transfer of training and not simply acquisition. Summative evaluation is a way of determining how effective the program is.

In order to evaluate training programs effectively, it is desirable to perform both formative and summative evaluations. Parry (1997) cites that evaluation must start before training begins, once again indicating the importance of a needs assessment to determine



what will be evaluated. Conscientious training professionals should be concerned with results of both formative evaluation and summative evaluation.

Kirkpatrick's Four-Level Evaluation Model

During the past four decades, numerous models of training program evaluation have been proposed. No model has been as useful and widely used as the one developed by Donald Kirkpatrick at the University of Wisconsin in 1959 (Hilbert et al., 1997; Phillips, 1998). Originally called a "four-step approach" to evaluation, it has been called a model, a system, a framework, a taxonomy, a methodology, a typography, and a vocabulary. Kirkpatrick himself now calls it the four-level model of evaluation (Kirkpatrick, 1998).

Kirkpatrick's model was the first attempt to formalize the notion of training evaluation (Hilbert et al., 1997). Most models found in research literature either directly or indirectly build on Kirkpatrick's model. Kirkpatrick noticed that training evaluation could be conducted with four possible training outcomes in mind: (a) reaction,

(b) learning, (c) behavior, and (d) results. These four outcomes, or levels, represent a sequence of ways to evaluate programs. According to Kirkpatrick (1998), each level is important and has an impact on the next level. As one moves from one level to the next, the process becomes more difficult and time-consuming.

Data is easiest to generate at the first level of the model and progressively harder to collect and to interpret as one moves up the model. The effects being measured are short range at Levels I and II and longer range at Levels III and IV. These ranges help



explain estimates that over 85 percent of all training programs are evaluated at Level I, while the number drops progressively with fewer than 10 percent being measured at Level IV (Parry, 1997).

Kirkpatrick (1998) defines Level I as the measurement of learner reaction.

Evaluation on this level measures how participants in the program feel about the training.

This evaluation is commonly referred to as customer satisfaction. If training is going to be effective, it is important that participants react favorably to it. Participant reaction may be easily measured by the use of questionnaires or "smile" sheets.

Level II of Kirkpatrick's model includes evaluating learning. Learning determines the extent to which participants have improved or increased their knowledge or skills as a result of the training (Kirkpatrick, 1998). Increased knowledge is relatively easy to measure by means of a test related to the content of the program that is administered before and after the training.

Level III consists of evaluating the behavior of the participants. The evaluation of behavior determines if participants are using or transferring their newly learned knowledge and behaviors back on the job (Hilbert et al., 1997). The process of evaluating behavior is complicated and often difficult to do. Behavior may be evaluated by the use of interviews with participants' supervisors, survey questionnaires, performance simulations, or observation. It is important to allow sufficient time for behavioral changes to occur before evaluating.

Level IV of Kirkpatrick's model is defined as evaluating results (Kirkpatrick, 1998). Evaluation at this level determines if the training has affected business results or



has contributed to the achievement of the organizational goals. Commonly referred to as return-on-investment, this is by far the most difficult level to evaluate (Parry, 1998). Many factors make it difficult to measure the dollar value of the benefits of training and the cost of the training itself. Return-on-investment may be calculated through a cost-benefit analysis or pre-training and post-training comparison of data already in the system, such as accident rate, new accounts, rejects, absenteeism, or turnover (Parry, 1997). Level IV also requires ample time following training before the return-on-investment can be calculated.

Kirkpatrick's Level I: Reaction

Kirkpatrick's first level of training program evaluation is the reaction or critique evaluation. Evaluation on this level measures how those who participate in the training program react to it. Kirkpatrick (1998) calls this a measure of customer satisfaction.

Evaluation at Level I determines the participants' degree of satisfaction with a program's design and delivery. Participants' satisfaction is a crucial piece of information in determining the effectiveness of the training program. If training is going to be effective, it is important that trainees react favorably to it. If participants are not satisfied with the learning experience, they probably will not use what they have learned and will undoubtedly advise others not to attend (Robinson, 1989). Kirkpatrick (1998) states that "positive reaction may not ensure learning, but negative reaction almost certainly reduces the possibility of its occurring" (p. 20).



Kirkpatrick (1998) cites four reasons why measuring participant reaction is important. These reasons are as follows:

- The measurement of participant reaction gives valuable feedback for evaluating the training program as well as comments and suggestions for improving future programs.
- 2. The measurement of participant reaction tells participants that the trainers are there to help them do their job better and that they need feedback to determine how effective they are. This gives the participants ownership in determining the effectiveness of the training program.
- 3. Reaction sheets can provide quantitative information which can be shared with managers and others concerned about the program.
- 4. Reaction sheets can provide trainers with quantitative information that can be used to establish standards of performance for future programs.

Level I evaluation is considered to be both formative and summative (Robinson & Robinson 1989; Kirkpatrick, 1998). It is a summative evaluation in that it typically comes at the end of the program. Level I evaluation can be used to make improvements in the program, hence it is also considered to be a type of formative evaluation.

Evaluating reaction is not only important but easy to do. Many training professionals belittle reaction evaluation saying that it produces no useful information. According to Dana G. Robinson and James C. Robinson (1989), this could be due to two problems causing dissatisfaction: (a) the purposes of the reaction evaluation may not be clearly identified or may be incorrect, and (b) the questions may be poorly constructed



and so may provide poor information. Robinson and Robinson also cite common mistakes made in constructing reaction evaluations. These mistakes include:

- 1. Creating one reaction evaluation to be used for every training program, reflecting the "one size fits all" idea,
- 2. Creating reaction evaluations that are composed almost entirely (or only) of open-ended questions,
- 3. Using unbalanced questions, which predominantly ask for positive or negative comments on the program,
 - 4. Failing to maximize this opportunity to collect useful information, and
- 5. Allowing insufficient time for participants to complete reaction evaluations.

Developing and Using Reaction Evaluation Effectively

Research on reaction evaluation identifies a set of common guidelines for developing and using reaction evaluation effectively. The purposes of reaction evaluation must be determined (Robinson & Robinson, 1989; Zemke, 1996; Kirkpatrick, 1998).

Purposes represent what the evaluator wants to know and the decisions one wants to make as a result of the information collected. Reaction evaluation includes the commonly asked questions about the program itself such as the facilities, schedule, handouts, and so forth. It is also important to determine how motivated the participants are to apply what they have learned, if anything will make it difficult for the participants to use their new skills on their job, what aspects of the program were most helpful, what



aspects of the program were least helpful, and if the participants value what they have learned. Questions developed for the reaction level evaluation must measure the course, content,

instructor, and relevancy to the job. These are four areas considered essential to successful training programs.

A form that will quantify reactions but also encourage written comments and suggestions should be designed (Robinson & Robinson, 1989; Zemke, 1996; Kirkpatrick, 1998). The ideal form provides the maximum amount of information and requires the minimum amount of time to complete. Reaction forms should permit both essay and scaled responses. Some part or section of the evaluation should focus directly on the learning and outcomes desired from the specific program. This specific focus prevents the "one size fits all" evaluation mentality. The form and delivery of the reaction evaluation must communicate a link between quality, process improvement, and action. Participants must be made to feel as though their individual response is a factor in the continuous improvement process.

The evaluation process should ensure complete and immediate response (Robinson & Robinson, 1989; Parry, 1997 Kirkpatrick, 1998). To ensure complete response, reaction sheets should be completed during the training session. It is important to allow sufficient time at the end of the program so that participants are completing the evaluation on company time, not their own. The targeted time for completion of reaction sheets is 10 to 15 minutes.

The evaluation process should ensure honest responses (Kirkpatrick, 1977;



Robinson & Robinson, 1989; Kirkpatrick, 1998). Much debate is held on the issue of requiring participants to sign their evaluations, commonly referred to as the "evidence vs. proof" debate. If participants must sign their reaction sheets and they have a fear of being critical, then the reactions are only evidence of the feelings of the participants. If participants are completely candid and honest, then the reaction sheets are proof of the feelings and satisfaction of the participants. Kirkpatrick (1977) suggests that reaction sheets should not be signed and should be collected in such a way that there is no way to identify the person who completed them. The factor of honesty is one that is readily controllable and therefore proof of reaction is relatively easy to get. Another suggestion would be to make the signature optional and leave that decision to the participant.

Acceptable standards of performance should be developed (Zemke, 1996; Kirkpatrick, 1998). Interpretation of the data generated by the reaction sheet is often complicated by the lack of performance standards against which to compare the results of specific programs. Standards of acceptable performance can be based on a realistic analysis of what can be expected considering such conditions as budgets, facilities available, skilled instructors available, and so on.

Reliability of results can be increased by asking the participant's supervisor to complete similar reaction sheets (Mikulecky & Lloyd, 1993; Zemke, 1996; Garavaglia, 1998; Luketich, 1998). An abbreviated or slightly modified version of the reaction sheet can be used to measure the supervisor's impressions and observations of the extent to which participants from their unit have changed after the program. This version allows another perspective on the information gathered directly from the participants without



costing a great deal in time and money. Supervisors are in excellent positions to provide data about participants' strengths and weaknesses. Supervisors can also report changes in the duties and tasks participants perform on the job. Involving supervisors in the reaction evaluation process can also indicate a transfer of training (Level III).

Duke Energy Corporation

Duke Energy Corporation, an energy services company based in Charlotte, North Carolina, developed a Level I evaluation process which has become recognized as a model for the evaluation of workforce training and education (Allman, 1998; Kirkpatrick, 1998). In 1994, Duke Energy sought to quantify the value of learning in the organization. Corporate training and education departments were asked to analyze and develop trends of the experiences in order to monitor continuous improvement of programs.

Using Kirkpatrick's model for evaluating training and education, an evaluation team began to work on developing a Level I evaluation process. Development and testing of the Level I instrument for evaluating participant reaction was conducted from 1995 until 1997. By the end of 1997, the number using the Level I reaction sheet grew to over 25,000 participants. Analysis of the data began to reveal some very interesting trends (Allman, 1998). Allman states that training management came to the realization that, "the reaction to training and education is directly linked to the operation and business management aspects of the training unit" (p.136). Allman further comments that as the reactions of participants are continuously analyzed the trends suggest a direct correlation between reaction (Level I) and transfer to the job (Level III).



The case study of the Duke Energy Corporation's training evaluation process suggests that the use of sophisticated techniques for analyzing participant reaction is warranted (Allman 1998; Kirkpatrick, 1998). When used effectively, analysis of Level I evaluation data can help in the early detection of areas that need improvement or support the conclusion that a good result was achieved.

Developing and Administering a Questionnaire

Surveys have become a widely used and acknowledged research tool in most of the developed countries of the world (Rea & Parker, 1997). At the heart of survey research is the questionnaire development process. According to Rea and Parker, one of the preludes to the development of survey questions is the assembly of teams of content experts. These individuals are deemed to have knowledge of or interest in the issues associated with the research study. These teams, commonly referred to as focus groups, contribute significantly to an understanding of the key substantive issues necessary for the development of the questionnaire. Once these key issues have been outlined and specified, the researcher can prepare a draft questionnaire or survey instrument.

Researchers should conduct a pretest of the questionnaire before using it in a study (Robinson & Robinson, 1989; Ary, Jacobs, & Razavieh, 1996; Borg, Gall, & Gall, 1996; McMillan & Schumacher, 1997; Rea & Parker, 1997). Rea and Parker define a pretest as a small-scale implementation of the draft questionnaire that assesses such critical factors as the following:

1. Questionnaire clarity: Are the questions understood by the respondents?



- 2. Questionnaire comprehensiveness: Are the questions and response choices sufficiently comprehensive to cover a reasonably complete range of alternatives?
- 3. Questionnaire acceptability: Are there any potential problems which must be identified and addressed by the researcher such as excessive questionnaire length or questions that are perceived to invade the privacy of the respondents?

The pretest should include a sample of individuals from the population from which the researcher plans to draw respondents. The pretest form of the questionnaire should provide ample space for respondents to make criticisms and to make recommendations for improving the questionnaire (Borg et al., 1996; McMillan & Schumacher, 1997). According to Ary et al. (1996), observations made of the respondents as they complete the questionnaire can also be enlightening. Spending an undue amount of time on an item or leaving an item blank and returning to it later can indicate that there is a problem with that item.

Following the pretest, the researcher must revise the questions as needed. The results of the pretest can be used to clarify the items or to eliminate some. The researcher may choose to perform a further pretest if these revisions are extensive (Rea & Parker, 1997). Otherwise, the final questionnaire can be drafted and prepared for implementation in the actual study.

It is important to inform potential respondents about the purpose of the study in advance of the questionnaire itself. Rea and Parker (1997) suggest that five components be included in an introductory statement. The five components include: (a) the organization or agency conducting the study; (b) the objectives and goals of the study and



the significance of the results to the respondents; (c) the basis of sample selection; (d) the characteristics the respondent possesses that led to their inclusion in the sample; and (e) the assurance that the respondent's participation is valued, that answers are neither correct nor incorrect, and that responses will be treated confidentially.

The questionnaire should be as concise as possible while still covering the necessary range of subject matter required in the study. The purpose of being sensitive to questionnaire length is to make certain that the questionnaire is not so long and cumbersome to the respondent that is engenders reluctance to complete the survey instrument (Rea & Parker, 1997). According to Rea and Parker, in-person surveys should ideally take less than 30 minutes.

Summary

Chapter II has reviewed the literature of research in areas related to the present study. The review has been subdivided by topic. First to be considered was research focused on the need for workforce training, both in the South and in Mississippi. Secondly, literature describing training program evaluation was reported. Research dealing with developing and administering questionnaires was presented for final consideration. Chapter III will present the design of the study. Chapter IV will present the findings of the study and Chapter V will present a discussion of the findings and recommendations.



CHAPTER III

METHODOLOGY

The present study was conducted in two phases. Phase I was the development of the instrument for recording the reactions of the participants and their supervisors toward the effectiveness of the completed workforce training program. Once the instrument was developed and its content validity had been established, it was piloted in one community college district. Necessary revisions were made as a result of the pilot study. Phase II consisted of field testing the instrument in the districts of Mississippi Delta Community College and Coahoma Community College. Phase II results were used to compare the responses of the participants and their supervisors.

Phase I

Developing the Initial Instrument

Nancy D. Padak and Gary M. Padak's (1991) three categories for determining program effectiveness were used in the development of the instrument. These categories included: (a) programmatic, consisting of program structure and content; (b) personal, consisting of academic achievement and quality of life; and (c) external, consisting of



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context-based and financial. Phase I began with a solicitation of expert opinions on the areas to be specified under each of the three effectiveness categories.

The panel of experts included the directors, workforce specialists, basic skills specialists, and industrial coordinators from the One-Stop Career Centers at Mississippi Delta Community College and Coahoma Community College. The panel also included previous participants of workforce training programs and supervisors. The researcher personally met with these individuals to gain their input as to the content of the instrument. Prospective alternative-response, or agree-disagree, type items were selected for the proposed instrument by the researcher based on the literature review (see Appendix B). McMillan and Schumacher (1997) indicate that the forced choice format may lead to some frustration by the respondent. However, this format has merit in instances in which the respondents may have a tendency to cluster evidences in the middle category.

Borg and Gall (1996) suggest that questionnaires should be kept as short as possible. This was considered during the development of the instrument. The panel of experts had the opportunity to add and/or to revise items, as well as to comment on the appropriateness of each item. Since some of the subjects may have lower level literacy skills, the proposed instrument was designed to be administered by the researcher reading the items to the participants or the participants reading the items silently. The Fry Readability Graph (Burns, Roe, & Stoodt, 1998) was used to determine the instructional reading level of the pilot test instrument.



Revisions, additions, and/or comments were summarized and incorporated into the preliminary instrument. The revised instrument was returned to the panel of experts for final revisions. Minor revisions were incorporated into the initial instrument to be used in the pilot test (see Appendix C). A single form of the instrument was used.

Participants were instructed to indicate whether they were a workforce training program participant or a supervisor of a workforce training program participant.

The instrument was designed to measure the reaction of both the participants and their supervisors toward the effectiveness of the workforce training program. Level I of Kirkpatrick's model provided the framework for the instrument. Evaluation based on the other three levels of Kirkpatrick's model was left for future research studies.

Establishing the Validity of the Instrument

Content validity is determined by content experts who define the content that the instrument is assumed to represent and determine how well the content area is sampled by the items (Borg & Gall, 1996). The panel of experts used to develop the instrument for this study included practitioners of workforce training programs, previous workforce training participants, and their supervisors. Their input was of significant value as they are the ones who design, implement, participate in, and evaluate the workforce training programs the One-Stop Career Centers deliver (Borg & Gall, 1996). Content validity of the instrument was obtained through the use of this expert panel.



Sample Selection for Pilot Test

Convenience sampling was used for the purposes of this study. That is, the researcher selected subjects based on expedience and accessibility (McMillan & Schumacher, 1997). With the assistance of the One-Stop Career Center director at Mississippi Delta Community College, a recently completed workforce training program was selected.

The cooperation of plant management was obtained by the researcher and the Center director. The subjects were employees who were current or previous participants of the selected workforce training program. Also included in the sample was the immediate supervisor of each employee.

Pilot Test

Borg and Gall (1996) assert that questionnaires should be piloted before using the instrument in any research study. They also suggest that the pilot form of the instrument should provide space for subjects to make criticisms and recommendations for improving the items. According to Borg and Gall, another useful strategy is to allow the subjects to write in their own words what each item means.

The pilot test for this instrument was conducted for the purpose of analyzing each item. Subjects were expected to critique each item and make recommendations for improvement. The pilot test occurred with two separate groups: (a) the employees and (b) the supervisors. With the assistance of the company's Human Resources Director,



convenient times to administer the instrument were identified. Selected employees and their supervisors were notified by the company's Human Resources Director of the date and time scheduled for their appointment.

After a brief introduction, the researcher read aloud a consent form which required the subject's understanding of the researcher's purposes for conducting the pilot test (see Appendix D). The subjects were asked to respond by giving an item critique and making recommendations. The subjects were told to note any areas of confusion which may cause the item to be misinterpreted by future participants.

Results from the pilot test were used by the researcher to make any necessary revisions to the items. Items were revised and retested until they were understood accurately by all or most of the members of the pilot test sample (Borg & Gall, 1996). These items were included on the Field Test Survey Questionnaire (see Appendix E). Once the instrument was finalized, Phase II of the study began.

Phase II

Field Test

Field testing of the instrument occurred with a convenience sample of two recently completed workforce training programs, one from the district of Mississippi Delta Community College and one from the district of Coahoma Community College. The subjects were employees and current or previous participants of the selected workforce training programs. Also included in the sample were the immediate supervisors of the employees.



The field test occurred with four groups during conveniently scheduled times: (a) participants in the Mississippi Delta Community College workforce training program,
(b) supervisors of the participants in that training program, (c) participants in the
Coahoma Community College workforce training program, and (d) supervisors of the participants in that training program.

Data Analysis

Upon completion of the field test of the instrument, a comparison of the descriptive data was made. The following questions were considered during data analysis:

- 1. Was there a difference between the reactions of participants and the reactions of the participants' supervisors to the programmatic effectiveness of the recently completed workforce training program?
- Was there a difference between the reactions of participants and the reactions of the participants' supervisors to the personal effectiveness of the recently completed workforce training program?
- 3. Was there a difference between the reactions of participants and the reactions of the participants' supervisors to the external effectiveness of the recently completed workforce training program?
- 4. What conclusions can be made as to the effectiveness of workforce training programs using this instrument?

For the purposes of this study, results were presented as descriptive data for each



item, including frequency of response and percentage of response. The researcher performed a comparative analysis of the responses from the participants, the supervisors, and the participant-supervisor pairs.

Summary

This chapter has described Phases I and II of the study. Phases I and II included the development of the evaluation instrument, the establishment of the validity of the instrument, the selection of the sample, the pilot test of the instrument, the field test of the instrument, and the statistical procedures which were used to analyze the data. The results of the study will be presented in Chapter IV. Chapter V will present a discussion of the results and recommendations for future studies.



CHAPTER IV

RESULTS

Phase I

The present developmental study was conducted in two phases. Phase I was the development of the instrument for recording the reactions of the participants and their supervisors toward the effectiveness of the completed workforce training program.

Establishing Content Validity

Two panels of experts from local community college One-Stop Career Centers were used to develop and establish the content validity of the proposed instrument. The first panel consisted of seven members from the staff of Coahoma Community College's One-Stop Career Center, a workforce training program instructor, and a previous workforce training program participant. The staff of Coahoma Community College's One-Stop Career Center had a combined total of more than 33 years of experience in workforce training. The second panel consisted of 10 members from the staff of Mississippi Delta Community College's One-Stop Career Center. The staff of this Center had a combined total of more than 94 years of experience in workforce training.



The researcher personally met with each expert panel at their One-Stop Career Center. The researcher presented an overview of the present study. A description of Nancy D. Padak and Gary M. Padak's (1991) program effectiveness categories was discussed as the basis for the development of the items to be included on the instrument. The members of the panels critiqued prospective questionnaire items which were initially selected by the researcher based on the literature review (see Appendix B). The panels also contributed additions, revisions, and comments pertaining to each prospective item.

The panels of experts made the following recommendations for the proposed instrument:

- 1. Order the sections on the questionnaire in the following manner: programmatic factors first, personal factors second, and external factors third. This placed the items in the order of those factors which could be assessed or observed most immediately following the workforce training program.
- 2. Replace the word "teacher" with the word "instructor" in all items. Place these items in a separate category under programmatic factors entitled "Instructor."
- 3. Add one item distinguishing whether the training was mandatory or voluntary for the participant. The experts cautioned that the results from the instrument may be significantly different based on the response to this item.
- 4. Remove subject specific items, such as those pertaining to math skills and reading job information, from the questionnaire. Removal of these items would allow the questionnaire to be used in evaluating all types of workforce training programs.



Pilot Test Questionnaire

Revisions, additions, and comments from the two expert panels were incorporated by the researcher into the preliminary instrument. The revised instrument was returned to the panels for final revisions (see Appendix C). The panels of experts made no further revisions.

The Fry Readability Graph (Burns, Roe, & Stoodt, 1998) was used to measure the readability of the pilot test questionnaire. The researcher determined the approximate instructional reading level of the pilot test questionnaire to be ninth grade. A participant consent form, to be used for the pilot and field tests, was developed by the researcher and approved by Delta State University's Academic Research Coordinator.

The pilot test questionnaire was developed as one single form to be used by the workforce training program participants and their supervisors. Each item was written to be read by the researcher in two different ways: (a) one for the workforce training program participants and (b) one for their supervisors. The pilot test questionnaire provided space following each item for subjects to make criticisms and recommendations for improving the items.

Pilot Test

With the assistance of the staff from Mississippi Delta Community College's One-Stop Career Center, a manufacturer of healthcare products was selected as the pilot test site. The company's Human Resources Director assembled a group of previous



workforce training program participants and supervisors as the pilot test group. The pilot test group consisted of 18 subjects: (a) 11 workforce training program participants and (b) 7 supervisors.

After a brief introduction, the researcher read aloud the participant consent form (see Appendix D). All subjects indicated their understanding of the researcher's purposes for conducting the pilot test. All subjects agreed to voluntarily participate in the pilot test by signing and dating the participant consent form.

The researcher read aloud the directions printed on the pilot test survey questionnaire. Each subject indicated on their questionnaire whether they were a workforce training program participant or a supervisor of a workforce training program participant. The researcher then read aloud each item in two ways: (a) one for the workforce training program participants and (b) one for their supervisors. Subjects gave item critiques and made recommendations. The researcher noted areas of confusion indicated by the subjects.

There were very few recommendations made by the subjects of the pilot test.

Most of those recommendations included word or phrase changes. A suggestion was made to include a section for comments at the end of the survey questionnaire. The suggested item revisions were made by the researcher.

The supervisors in the pilot test group indicated that during the actual administration of the survey questionnaire some may have difficulty completing the items in the personal factors and programmatic factors sections. Since the supervisors are asked to complete the survey questionnaire on the basis of the effectiveness of the



training program for their employees, these items may be difficult for them to evaluate, especially if they did not participate in the workforce training program.

Phase II

Phase II consisted of field testing the instrument in the districts of Mississippi Delta Community College and Coahoma Community College. Phase II results were used to compare the responses of the workforce training program participants and their supervisors.

Field Test Questionnaire

Suggested item revisions from the pilot test were made by the researcher. The items were then written in alternative-response, or agree-disagree, format for the field test questionnaire (see Appendix E). A total of 27 items was included on the field test questionnaire. The expected time of completion of the questionnaire was no more than 20 minutes.

Field testing of the instrument occurred with a convenience sample of two recently completed workforce training programs, one from the district of Mississippi Delta Community College and one from the district of Coahoma Community College. Subjects were employees and participants of the selected workforce training programs. Also included in the sample were the immediate supervisors of the employees.



Field Test I

The first field test took place at a manufacturing facility of healthcare products located in the district of Mississippi Delta Community College. The selected training program was a recently completed voluntary basic mathematics course. The field test sample population included 11 participants in the workforce training program and their supervisors. There was a total of six supervisors, with three of them supervising more than one participant.

The survey questionnaire was administered by the researcher to the participants in the training program at the end of the final training session. The questionnaire was administered to the supervisors of the participants two days later. All subjects agreed to voluntarily participate in the field test by signing and dating the participant consent form (see Appendix F). Each employee was assigned a number and their supervisor was assigned the same number. These numbers were written at the top of the field test survey questionnaire. This system allowed the researcher to match the pairs of participants and supervisors for data analysis.

The researcher read aloud the directions printed on the field test survey questionnaire. Each subject indicated on their questionnaire whether they were a workforce training program participant or a supervisor of a workforce training program participant. The researcher then read aloud each item. Subjects indicated whether they agreed with or disagreed with each item.



Field Test II

The second field test took place at a hospital located in the district of Coahoma Community College. The selected training program was a recently completed mandatory customer service course. The field test sample population included 23 participants in the workforce training program and their supervisors. There was a total of five supervisors, with each of them supervising more than one participant.

The survey questionnaire was administered by the researcher to the participants in the training program at the end of the final training session. The questionnaire was administered to the supervisors of the participants one week later. All subjects agreed to voluntarily participate in the field test by signing and dating the participant consent form. Each employee was assigned a number and their supervisor was assigned the same number. These numbers were written at the top of the field test survey questionnaire. This system allowed the researcher to match the pairs of participants and supervisors for data analysis.

The researcher read aloud the directions printed on the field test survey questionnaire. Each subject indicated on their questionnaire whether they were a workforce training program participant or a supervisor of a workforce training program participant. The researcher then read aloud each item. Subjects indicated whether they agreed with or disagreed with each item.



Analysis of Data

Data from the field tests are presented in the following three sections: (a) results from Field Test I, (b) results from Field Test II, and (c) combined results of responses of participant-supervisor pairs from both field tests.

Results from Field Test I

Table 1 presents item responses of the participants, their supervisors, and participant-supervisor pairs by frequency and percent for Field Test I. Those items which were not answered by 100 percent of the test group were noted.

Items 1 through 13 on the field test survey questionnaire assessed the programmatic aspects of the training program. Programmatic aspects included program content, program structure, facilities, and the instructor. Item responses by frequency and percent indicated three results: (a) consensus of response among the responding participants, (b) consensus of that same response among the responding supervisors, and (c) consensus of that same response among responding participant-supervisor pairs.

Items 14 through 21 on the field test survey questionnaire assessed personal factors associated with the training program. Personal factors included quality of life and academic achievement. Item responses for items 14, 16, and 17 indicated results similar to those for items 1 through 13.

Item responses for items 15, 18, 19, and 20 indicated that a majority of the participants agreed with the statements but a majority of the responding supervisors



Table 1

Item Responses by Frequency and Percent for Field Test I

(N=11)

A=Agree; D=Disagree

	Item	Pa	rticipant	Sup	ervisor	Part./	Sup. Pairs
1.	The course material was organized and easy to follow.	A D	11(100) 0	A D	7*(64) 0	A D	7(64) 0
2.	The information taught in the class helped me in my personal life.	A D	10*(91) 0	A D	7*(64) 0	A D	7(64) 0
3.	The information taught in the class helped me know more about my current job.	A D	8(73) 3(27)	A D	6*(55) 2 (18)	A D	4(36) 0
4.	The information taught in the class relates to my current job responsibilities.	A D	7(64) 4(36)	A D	8*(73) 1 (9)	A D	4(36) 0
5.	Getting information about the classes offered at work was easy.	A D	10(91) 1 (9)	A D	10*(91) 0	A D	9(82) 0
6.	The amount of time scheduled for this class was exactly what was needed to meet my objectives.	A D	9(82) 2(18)	A D	4*(36) 0	A D	4(36) 0
7.	The facilities for the class were comfortable.	A D	11(100) 0	A D	8 * (73)	A D	8(73) 0
8.	I would recommend this course to others.	A D	11(100) 0	A D	5*(45) 0	A D	5(45) 0
9.	My attendance at this training program was mandatory.	A D	2(18) 9(82)	A D	0 11(100)	A D	0 9(82)

(Table continued on next page)



Table 1 continued

Item		Pa	Participant		Supervisor		Part./Sup. Pairs	
10.	I felt comfortable asking the instructor questions.	A D	10*(91) 0	A D	6*(55) 0	A D	6(55)	
11.	The instructor encouraged my participation in class.	A D	11 (100) 0	A D	6*(55) 0	A D	6(55) 0	
12.	The instructor was available when I needed help.	A D	10(91) 1 (9)	A D	6*(55) 0	A D	6(55) 0	
13.	The instructor presented the information in a clear, understandable, and professional manner.	A D	11(100) 0	A D	6*(55) 0	A D	6(55) 0	
14.	I have more confidence in performing my job responsibilities.	A D	10(91) 1 (9)	A D	6*(55) 2 (18)		5(45) 0	
15.	My attitude about work has improved.	A D	10(91) 1 (9)	A D	3*(27) 7 (64)		3(27) 1 (9)	
16.	I am proud of my work and how it contributes to the success of the company.	A D	10(91) 1 (9)	A D	9*(82) 1 (9)	A D	8(73) 0	
17.	My desire to continue my education has increased.	A D	10(91) 1 (9)	A D	8*(73) 2 (18)		7(64) 0	
18.	My ability to communicate with my co-workers has improved.		10(91) 1 (9)	A D			3(27) 0	
19.	My ability to communicate with my supervisor has improved.	A D	8(73) 3(27)		5 (45) 6 (55)		4(36) 2(18)	
20.	My ability to solve problems and make decisions, large or small, on my job has increased.	A D	9(82) 2(18)	A D	4*(36) 5 (45)		4(36) 2(18)	

(Table continued on next page)



Table 1 continued

	Item		Participant		Supervisor Part./Sup. Pairs			
21.	I am now able to perform my job better.	A D	10(91) 1 (9)	A D	6(55) 5(45)	A D	5(45) 0	
22.	My chances of getting a job, keeping my job, or advancing in my job have increased.	A D	10(91) 1 (9)	A D	6(55) 5(45)	A D	5(45) 0	
23.	My chances of making more money have increased.	A D	8(73) 3(27)	A D	1*(9) 6(55)	A D	1 (9) 3(27)	
24.	My ability to contribute to the well-being of my family has increased.	A D	9(82) 2(18)	A D	4*(36) 1 (9)	A D	3(27) 1 (9)	
25.	I have been given or offered more responsibility in my job.	A D	5(45) 6(55)	A D	1* (9) 6 (55)	A D	0 4(36)	
26.	I get along better with my co-workers.	A D	8(73) 3(27)	A D	2*(18) 5 (45)		1 (9) 1 (9)	
27.	I get along better with my supervisor.	A D	8(73) 3(27)	A D	3*(27) 5 (45)	A D	2(18) 1 (9)	

Note. *indicates items not answered by 100% of test group.



disagreed with the statements. Item 15, "my attitude about work has improved" was contained in the quality of life item category. A total of 10 (91%) of the participants agreed with the statement indicating an improvement in their attitude about work as a result of the training program. In contrast, only three (27%) of the supervisors agreed with the statement and seven (64%) of the supervisors disagreed with the statement. A total of four (36%) participant-supervisor pairs were in agreement, which was the maximum number possible based on the responses of each group.

Items 18, 19, and 20 were contained in the category of academic achievement. Item responses for those items showed disagreement in responses among a majority of the participants and a majority of the responding supervisors. Items 18 and 19 referred to an improvement in communication with co-workers and supervisors, respectively. A majority of the participants, 10 (91%) and 8 (73%), agreed with both statements, indicating an improvement in their communication with co-workers and supervisors as a result of the training program. In contrast, a majority of the responding supervisors disagreed with those statements, five (45%) and six (55%), respectively. A total of three (27%) participant-supervisor pairs were in agreement on item 18, and six (54%) pairs were in agreement on item 19.

Item 20 referred to an improvement in the ability to solve problems and make decisions. A total of nine (82%) of the participants agreed with the statement, indicating an improvement in their ability to solve problems and make decisions as a result of the training program. A total of four (36%) of the responding supervisors agreed with the statement, whereas five (45%) of the supervisors disagreed with the statement. A total of



six (54%) participant-supervisor pairs were in agreement with the item, a majority of the respondent pairs and the maximum number possible based on the responses of each group.

Items 22 through 27 on the field test survey questionnaire assessed external factors associated with the training program. External factors included financial and context-based categories of items. Item responses for items 22, 24, and 25 indicated consensus of the same response among the responding participants, supervisors, and participant-supervisor pairs.

Item responses for items 23, 26, and 27, which assessed external factors, indicated that a majority of the participants agreed with the statements but a majority of the responding supervisors disagreed with the statements. Item 23, "my chances of making more money have increased" was contained in the financial category of items. A total of eight (73%) of the participants agreed with the statement, indicating an increase in their chances of making more money as a result of the training program. Only one (9%) of the supervisors agreed with the statement, whereas a total of six (55%) of the supervisors disagreed with the statement. A total of four (36%) participant-supervisor pairs were in agreement, which was the maximum number possible based on the responses of each group.

Items 26 and 27, were contained in the context-based category of items. Context-based items referred to an improvement in the ability to get along with co-workers and supervisors, respectively. For both items, a majority of the participants agreed with the statement and a majority of the responding supervisors disagreed with the statement. A



total of eight (73%) of the participants agreed with both statements, indicating an improvement in their ability to get along with co-workers and supervisors as a result of the training program. In contrast, a total of five (45%) of the supervisors disagreed with both statements. Only two (18%) of the supervisors agreed with item 26 and only three (27%) of the supervisors agreed with item 27. Two (18%) participant-supervisor pairs were in agreement on item 26, and three (27%) pairs were in agreement on item 27.

Results from Field Test II

Table 2 presents item responses of the participants, their supervisors, and participant-supervisor pairs by frequency and percent for Field Test II. Those items which were not answered by 100 percent of the test group were noted.

Items 1 through 13 on the field test survey questionnaire assessed the programmatic aspects of the training program. Programmatic aspects included program content, program structure, facilities, and the instructor. Item responses by frequency and percent indicated three results: (a) consensus of response among the responding participants, (b) consensus of that same response among the responding supervisors, and (c) consensus of that same response among responding participant-supervisor pairs.

Items 14 through 21 on the field test survey questionnaire assessed personal factors associated with the training program. Personal factors included quality of life and academic achievement. Item responses for items 14, 15, 16 and 21 indicated results similar to those for items 1 through 13.



Table 2 $\label{eq:table 2} \mbox{Item Responses by Frequency and Percent for Field Test II}$ (N=23)

A=Agree; D=Disagree

	Item		rticipant	Supervisor Part./Sup. Pa			'Sup. Pairs
1.	The course material was organized and easy to follow.	A D	23(100) 0	A D	23(100) 0	A D	23(100)
2.	The information taught in the class helped me in my personal life.	A D	20(87) 3(13)	A D	8*(35) 6 (26)	A D	7(30) 1 (4)
3.	The information taught in the class helped me know more about my current job.	A D	21(91) 2 (9)	A D	23(100) 0	A D	21(91) 0
4.	The information taught in the class relates to my current job responsibilities.	A D	23(100) 0	A D	23(100) 0	A D	23(100) 0
5.	Getting information about the classes offered at work was easy.	A D	18(78) 5(22)	A D	23(100) 0	A D	23(100) 0
6.	The amount of time scheduled for this class was exactly what was needed to meet my objectives.	A D	20(87) 3(13)	A D	23(100) 0	A D	20(87)
7.	The facilities for the class were comfortable.	A D	22(96) 1 (4)	A D	23(100) 0	A D	22(96) 0
8.	I would recommend this course to others.	A D	22(96) 1 (4)	A D	23(100) 0	A D	22(96) 0
9.	My attendance at this training program was mandatory.	A D	22(96) 1 (4)	A D	23(100) 0	A D	22(96) 0

(Table continued on next page)



Table 2 continued

	Item		Participant		Supervisor Part./Sup. Pairs				
10.	I felt comfortable asking the instructor questions.	A D	23(100) 0	A D	9*(39) 0	A D	9(39) 0		
11.	The instructor encouraged my participation in class.	A D	22(96) 1 (4)	A D	23(100) 0	A D	22(96) 0		
12.	The instructor was available when I needed help.	A D	22*(96) 0	A D	23(100) 0	A D	22(96) 0		
13.	The instructor presented the information in a clear, understandable, and professional manner.	A D	23(100) 0	A D	23(100)	A D	23(100)		
14.	I have more confidence in performing my job responsibilities.	A D	21(91) 2 (9)	A D	10*(43) 2 (9)	A D	8(35) 0		
15.	My attitude about work has improved.	A D	21(91) 2 (9)	A D	10*(43) 2 (9)	A D	9(39) 0		
16.	I am proud of my work and how it contributes to the success of the company.	A D	23(100) 0	A D	17*(74) 1 (4)	A D	17(74) 0		
17.	My desire to continue my education has increased.	A D	22*(96) 0	A D	1*(4) 6(26)	A D	1 (4) 0		
18.	My ability to communicate with my co-workers has improved.	A D	23(100) 0	A D	9(39) 14(61)	A D	9(39) 0		
19.	My ability to communicate with my supervisor has improved.	A D	20(87) 3(13)	A D	3(13) 20(87)	A D	3(13) 3(13)		
20.	My ability to solve problems and make decisions, large or small, on my job has increased.	D	21(91) 2 (9)	A D	3*(13) 18 (78)	A D	3(13) 2 (9)		

(Table continued on next page)



Table 2 continued

	Item		rticipant	Supervisor		Part./Sup. Pairs		
21.	I am now able to perform my job better.	A D	22(96) 1 (4)	A D	23(100)	A D	23(100)	
22.	My chances of getting a job, keeping my job, or advancing in my job have increased.	A D	19(83) 4(17)	A D	5(22) 18(78)	A D	5(22) 4(17)	
23.	My chances of making more money have increased.	A	13(57) D	A 10	0 (43)	A D	0 23(100) D10(43)	
24.	My ability to contribute to the well-being of my family has increased.	A D	20(87) 3(13)	A D	5*(22) 17(74)	A D	5(22) 3(13)	
25.	I have been given or offered more responsibility in my job.	A D	10*(43) 12 (52)	A D	7(30) 16(70)	A D	3(13) 7(30)	
26.	I get along better with my co-workers.	A D	22(96) 1 (4)	A D	2 (9) 21(91)	A D	2 (9) 1 (4)	
27.	I get along better with my supervisor.	A D	21(91) 2 (9)	A D	3(13) 20(87)	A D	3(13) 2 (9)	

Note. *indicates items not answered by 100% of test group.



Item responses for items 17 through 20 indicated that a majority of the responding participants agreed with the statements but a majority of the responding supervisors disagreed with the statements. Item 17, "my desire to continue my education has increased" was contained in the quality of life item category. A total of 22 (96%) of the participants agreed with the statement. In contrast, six (26%) of the supervisors disagreed with the statement and only one (4%) of the supervisors agreed with the statement. One (4%) participant-supervisor pair was in agreement, which was the maximum number possible based on the responses of each group.

Items 18, 19, and 20 were contained in the category of academic achievement. Item responses for those items showed disagreement in responses among a majority of the participants and a majority of the responding supervisors. Items 18 and 19 referred to an improvement in communication with co-workers and supervisors, respectively. A majority of the participants, 23 (100%) and 20 (87%), agreed with both statements, indicating an improvement in their communication with co-workers and supervisors as a result of the training program. In contrast, a majority of the supervisors, 14 (61%) and 20 (87%), disagreed with those statements. A total of nine (39%) participant-supervisor pairs were in agreement on item 18, and six (26%) pairs were in agreement on item 19.

Item 20 referred to an improvement in the ability to solve problems and make decisions. A total of 21 (91%) of the participants agreed with the statement, indicating an improvement in their ability to solve problems and make decisions as a result of the training program. A total of three (13%) of the responding supervisors agreed with the



statement, whereas 18 (78%) of the supervisors disagreed with the statement. A total of five (22%) participant-supervisor pairs were in agreement with the item, the maximum number possible based on the responses of each group.

Items 22 through 27 on the field test survey questionnaire assessed external factors associated with the training program. External factors included financial and context-based item categories. Item responses for item 25 indicated consensus of the same response among the responding participants, supervisors, and participant-supervisor pairs. Item responses for items 22, 23, 24, 26, and 27, which assessed external factors, indicated that a majority of the responding participants agreed with the statements but a majority of the responding supervisors disagreed with the statements. Item 22, 23, and 24 were contained in the financial category of items. Item 22 referred to an increase in the participant's ability to get a job, keep a job, or advance in a job. Item 23 referred to an increase in the participant's chances of making more money. Item 24 referred to an increase in the ability to contribute to the well-being of one's family.

A majority of the participants agreed with all three items in the financial category: 19 (83%), 13 (57%), and 20 (87%), respectively. In contrast, a majority of the responding supervisors disagreed with all three statements: 18 (78%), 23 (100%), and 17 (74%), respectively. A total of nine (39%) participant-supervisor pairs were in agreement with item 22. A total of 10 (43%) participant-supervisor pairs were in agreement with item 23. A total of eight (35%) participant-supervisor pairs were in agreement with item 24. All three totals indicated the maximum number possible based on the responses of each group.



Items 26 and 27, were contained in the context-based category of items. Context-based items referred to an improvement in the ability to get along with co-workers and supervisors, respectively. For both items, a majority of the participants agreed with the statement and a majority of the supervisors disagreed with the statement.

A total of 22 (96%) of the participants agreed with item 26, indicating an improvement in their ability to get along with co-workers as a result of the training program. In contrast, two (9%) of the supervisors agreed with the statement and 21 (91%) disagreed with the statement. A total of 21 (91%) of the participants agreed with item 27, indicating an improvement in their ability to get along with their co-workers and supervisors as a result of the training program. In contrast, three (13%) of the supervisors agreed with the statement and 20 (87%) of the supervisors disagreed with both statements. Three (13%) participant-supervisor pairs were in agreement with item 26, and five (22%) pairs were in agreement with item 27. Both totals indicated the maximum number possible based on the responses of each group.

Combined Results of Responses of Participant-Supervisor Pairs from Field Tests I and II

Data from the combined item responses of participant-supervisor pairs for items evaluating programmatic factors was considered as it related to Research Question 1: "Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the programmatic effectiveness of the recently completed workforce training program?"



Table 3 presents the combined item responses of participant-supervisor pairs by frequency and percent for programmatic factors related to the workforce training program. Programmatic factors included items related to program content, program structure, facilities, and the instructor.

Items 1 through 4 assessed the effectiveness of the training program with respect to the program content. A majority of the participant-supervisor pairs were in agreement of response for items 1, 3, and 4. The respective percentages of agreement for items 1, 3, and 4 were 88%, 73%, and 79%. Item 1 had no disagreement of response among participant-supervisor pairs. The percentages of disagreement of response among participant-supervisor pairs for items 3 and 4 were very small. A total of six (18%) participant-supervisor pairs had a disagreement of response for item 3. A total of five (15%) participant-supervisor pairs had a disagreement of response for item 4. There were some supervisors that did not respond to items 1, 3, and 4. The percentages of no complete response for these items were 12%, 9%, and 6%, respectively.

The percentage of agreement of response among participant-supervisor pairs for item 2, "the information taught in the class helped me in my personal life," was 44%. A total of 13 (38%) pairs did not respond completely to item 2. A total of six (18%) participant-supervisor pairs had a disagreement of response for item 2.

Items 5 through 9 contained information about the program structure and facilities.

A majority of the participant-supervisor pairs reached a consensus of response for items 5 through 9. Items 5 through 9 had 32 (94%), 24 (71%), 30 (88%), 27 (79%), and 31



Table 3

Combined Item Responses of Participant-Supervisor Pairs by Frequency and Percent for Programmatic Factors

(N=34)

A=Agreement of response; D=Disagreement of response; N=No complete response

	Items	Part./Sup. Pairs
Pro	gram Content	
1.	The course material was organized and easy to follow.	A 30(88) D 0 N 4(12)
2.	The information taught in the class helped me in my personal life.	A 15(44) D 6(18) N 13(38)
3.	The information taught in the class helped me know more about my current job.	A25(73) D 6(18) N 3 (9)
4.	The information taught in the class relates to my current job responsibilities.	A 27(79) D 5(15) N 2 (6)
Pro	gram Structure and Facilities	
5.	Getting information about the classes offered at work was easy.	A 32(94) D 1 (3) N 1 (3)
6.	The amount of time scheduled for this class was exactly what was needed to meet my objectives.	A 24(71) D 3 (9) N 7(20)

(Table continued on next page)



Table 3 continued

	Items	Part	./Sup. Pairs
7.	The facilities for the class were comfortable.	A	30(88)
		D	1(3)
		N	3 (9)
8.	I would recommend this course to others.	Α	27(79)
		D	1 (3)
		N	6(18)
9.	My attendance at this training program was	Α	31(91)
	mandatory.	D	3 (9)
		N	0
Inst	ructor		
10.	I felt comfortable asking the instructor questions.	Α	15(44)
		D	0
		N	19(56)
1.	The instructor encouraged my participation in class.	Α	28(82)
		D	1 (3)
		N	5(15)
2.	The instructor was available when I needed help.	Α	28(82)
	•	D	0
		N	6(18)
3.	The instructor presented the information in a	Α	29(85)
	clear, understandable, and professional manner.	D	0
		N	5(15)



(91%) of its respondent pairs in agreement. The percentages of disagreement among participant-supervisor pairs for items 5 through 9 were very small. Items 5, 7, and 8 had only one (3%) participant-supervisor pair with a disagreement of response. Items 6 and 9 had three (9%) participant-supervisor pairs with a disagreement of response. Some supervisors did not respond to items 5 through 8. The percentages of no complete response for items 5 through 8 were 3%, 20%, 9%, and 18%. All participant-supervisor pairs responded completely to item 9.

Items 10 through 13 assessed the effectiveness of the training program with respect to the instructor. A majority of the participant-supervisor pairs reached a consensus of response for items 11 through 13. A total of 28 (82%) pairs reached a consensus of response for items 11 and 12. A total of 29 (85%) pairs reached a consensus of response for item 13. Item 11, "the instructor encouraged my participation in class," was the only item which had a disagreement of response among participant-supervisor pairs. One (3%) pair had a disagreement of response for item 11. Items 11 through 13 had a low percentage of no response among participant-supervisor pairs. A total of five (15%) participant-supervisor pairs did not respond completely to items 11 and 13. Six (18%) participant-supervisor pairs did not respond completely to item 12.

A total of 15 (44%) pairs reached a consensus of response for item 10. A total of 19 (56%) pairs did not respond completely to item 10. There was no disagreement of response among participant-supervisor pairs for item 10.

Based on these data, Research Question 1 must be answered negatively. There was no difference between the reactions of participants and the reactions of the participants'



supervisors to the programmatic effectiveness of the recently completed workforce training program. Only one of the 13 items evaluating programmatic effectiveness, item 10, did not have a majority of respondent pairs with a consensus of response. The remaining twelve items had a majority of consensus of response among the participant-supervisor pairs. Therefore, there was no difference between the reactions of participants and the reactions of the participants' supervisors to the programmatic effectiveness of the workforce training program.

Data from the combined item responses of participant-supervisor pairs to items evaluating personal factors was considered as it related to Research Question 2: "Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the personal effectiveness of the recently completed workforce training program?"

Table 4 presents the combined item responses of participant-supervisor pairs by frequency and percent for personal factors related to the workforce training program.

Personal factors included items related to the participant's quality of life and academic achievement.

Items 14 through 17 assessed the effectiveness of the workforce training program with respect to the participant's quality of life. Analysis of responses from participant-supervisor pairs for those items showed item 16 as the only item with a majority of the participant-supervisor pairs in agreement of response. Item 16, "I am proud of my work and how it contributes to the success of the company" had 25 (73%) of the participant-supervisor pairs with an agreement of response. A total of three (9%) of the



Table 4

Combined Item Responses of Participant-Supervisor Pairs by Frequency and Percent for Personal Factors

(N=34)

A=Agreement of response; D=Disagreement of response; N=No complete response

Items		Part./Sup. Pairs			
Quality of Life					
14.	I have more confidence in performing my	Α	13(38)		
	job responsibilities.	D	7(21)		
		N	14(41)		
15.	My attitude about work has improved.	Α	13(38)		
	•	D	9(27)		
		N	12(35)		
16.	I am proud of my work and how it contributes	Α	25(73)		
	to the success of the company.	D	3 (9)		
	- 1	N	6(18)		
17.	My desire to continue my education has increased.	Α	8(24)		
	•	D	0		
		N	26(76)		
Aca	demic Achievement				
18.	My ability to communicate with my co-workers	Α	12(35)		
	has improved.	D	20(59)		
	•	N	2 (6)		
19.	My ability to communicate with my supervisor	A	12(35)		
	has improved.	D	22(65)		
	•	N	0		

(Table continued on next page)



Table 4 continued

	Items	Part./Sup. Pairs			
20.	My ability to solve problems and make decisions, large or small, on my job has increased.	A D N	11(32) 19(56) 4(12)		
21.	I am now able to perform my job better.	A D N	28(82) 6(18) 0		



participant-supervisor pairs were in disagreement of response to this item. Six (18%) of the participant-supervisor pairs did not respond completely to item 16. Analysis of responses to item 15, "my attitude about work has improved," showed approximately the same percentage of agreement of response and no complete response among participant-supervisor pairs, 38% and 35% respectively.

Item responses for items 14 and 17 showed a high percentage of no complete response among participant-supervisor pairs. A total of 14 (41%) of the participant-supervisor pairs did not respond completely to item 14, "I have more confidence in performing my job responsibilities." A total of 26 (76%) of the participant-supervisors pairs did not respond completely to item 17, "my desire to continue my education has increased."

The percentage of consensus of response among participant-supervisor pairs for items 14 and 15 was 38 percent. The percentage of consensus of response among participant-supervisor pairs for item 17 was 24 percent. The percentages of disagreement of response among participant-supervisor pairs for items 14, 15, and 17 were very low. Item 14 had a total of seven (21%) participant-supervisor pairs with a disagreement of response. A total of nine (27%) of the participant-supervisor pairs were in disagreement of response to item 15. There were no participant-supervisor pairs in disagreement of response to item 17.

Items 18 through 21 assessed the effectiveness of the workforce training program with respect to the academic achievement of the participant. Item responses from participant-supervisor pairs for items 18 through 20 showed a majority of disagreement of



response. Item 18, "my ability to communicate with my co-workers has improved," had 20 (59%) pairs with a disagreement of response. Item 19, "my ability to communicate with my supervisor has improved," had 22 (65%) pairs with a disagreement of response. Item 20, "my ability to solve problems and make decisions, large or small, on my job has increased," had 19 (56%) pairs with a disagreement of response. A total of 12 (35%) participant-supervisor pairs were in agreement of response to items 18 and 19. A total of 11 (32%) participant-supervisor pairs were in agreement of response to item 20. The percentages of no complete response to items 18 through 20 were very low. A total of two (6%) participant-supervisor pairs did not respond completely to item 18. All participant-supervisor pairs responded completely to item 19. A total of 4 (12%) participant-supervisor did not respond completely to item 20.

Item 21, "I am now able to perform my job better," was the only item in the category of academic achievement that had a majority of participant-supervisor pairs with an agreement of response. A total of 28 (82%) pairs had an agreement of response to item 21. A total of six (18%) participant-supervisor pairs were in disagreement of response. All participant-supervisor pairs responded completely to item 21.

Based on these data, Research Question 2 must be answered affirmatively. There was a difference between the reactions of participants and the reactions of the participants' supervisors to the personal effectiveness of the recently completed workforce training program. Only two of the eight items evaluating personal effectiveness, item 16 and item 21, had a majority of respondent pairs with a consensus of response. Item responses for the remaining six items showed either a majority of



disagreement of response or a majority of no complete response. The item responses indicated a difference between the reactions of participants and the reactions of the participants' supervisors to the personal effectiveness of the workforce training program.

Data from the combined item responses of participant-supervisor pairs to items evaluating external factors was considered as it related to Research Question 3: "Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the external effectiveness of the recently completed workforce training program?"

Table 5 presents the combined item responses of participant-supervisor pairs by frequency and percent for external factors related to the workforce training program.

External factors included financial and context-based categories of items.

Items 22 through 24 were contained in the financial category of items. Analysis of responses from participant-supervisor pairs to items 22 through 24 showed a majority of disagreement in response among the pairs. A total of 20 (59%) participant-supervisor pairs were in disagreement of response to item 22, "my chances of getting a job, keeping my job, or advancing in my job have increased." A total of 16 (47%) participant-supervisor pairs were in disagreement of response to item 23, "my chances of making more money have increased." A total of 15 (44%) participant-supervisor pairs were in disagreement of response to item 24, "my ability to contribute to the well-being of my family has increased." A total of 14 (41%) of the participant-supervisor pairs reached a consensus of response to items 22 and 23. A total of 12 (35%) of the participant-supervisor pairs reached a consensus of response to item 24. The percentages of no



Table 5

Combined Item Responses of Participant-Supervisor Pairs by Frequency and Percent for External Factors

(N=34)

Items		Part./Sup. Pairs		
Fina	ncial	_		
22.	My chances of getting a job, keeping my job,	Α	14(41)	
	or advancing in my job have increased.	D	20(59)	
		N	0	
23.	My chances of making more money have increased.	Α	14(41)	
		· D	16(47)	
		N	4(12)	
24.	My ability to contribute to the well-being of my	Α	12(35)	
	family has increased.	D	` '	
		N	7(21)	
Con	text-Based			
25.	I have been given or offered more responsibility	Α	14(41)	
	in my job.	D	15(44)	
		N	5(15)	
6.	I get along better with my co-workers.	Α	5(15)	
	•	D	* *	
		N	4(12)	
7.	I get along better with my supervisor.	Α	8(23)	
		D	0 _ 1 _ 1	
		N	3 (9)	

Note. A=Agreement of response; D=Disagreement of response; N=No response.



complete response among the pairs to items 22 through 24 were very small. All participant-supervisor pairs responded completely to item 22. Four (12%) pairs did not respond completely to item 23 and seven (21%) pairs did not respond completely to item 24.

Items 25 through 27 were contained in the context-based category of items. Item responses from participant-supervisor pairs to those items also showed a majority of disagreement in response among the pairs. A total of 15 (44%) participant-supervisor pairs were in disagreement of response to item 25, "I have been given or offered more responsibility in my job." A total of 25 (73%) participant-supervisor pairs were in disagreement of response to item 26, "I get along better with my co-workers." A total of 23 (68%) participant-supervisor pairs were in disagreement of response to item 27, "I get along better with my supervisor." A total of 14 (41%) pairs reached a consensus of response to item 25. Fewer participant-supervisor pairs reached a consensus of response to items 26 and 27, with 5 (15%) and 8 (23%) respectively. The percentages of no complete response among the pairs to items 25 through 27 were very small. Five (15%) of the participant-supervisor pairs did not respond completely to item 25. A total of four (12%) pairs did not respond completely to item 26. Three (9%) of the participant-supervisor pairs did not respond completely to item 27.

Based on these data, Research Question 3 must be answered affirmatively. There was a difference between the reactions of participants and the reactions of the participants' supervisors to the external effectiveness of the recently completed workforce training program. A majority of responding participant-supervisor pairs were in



disagreement of response to all six items evaluating external factors. This indicated a difference between

the reactions of participants and the reactions of the participants' supervisors to the external effectiveness of the workforce training program.

Summary

Chapter IV has presented the results from the study. A discussion of the results, as well as recommendations for future studies, will be found in Chapter V.



CHAPTER V

SUMMARY AND DISCUSSION

The purpose of this study was to develop an evaluation instrument to assess the effectiveness of workforce training programs. The present developmental study was conducted in two phases. Phase I was the development of the instrument for recording the reactions of the participants and their supervisors toward the effectiveness of the completed workforce training program. Based on results reported in Chapter IV, the purpose of the study was achieved in Phase I. Phase II consisted of field testing the instrument. Phase II results were used to compare the responses of the workforce training program participants and the supervisors. Phase II also sought to determine whether there was agreement among participants and their supervisors toward the effectiveness of the workforce training program.

Two panels of experts from local community college One-Stop Career Centers were used to develop and establish the content validity of the proposed instrument.

Literature in the area of effective program evaluation consistently pointed to the importance of involving all stakeholders in the design and implementation of the evaluation (Tracey, 1968; Merwin, 1992; Mikulecky & Lloyd, 1993; Hilbert, Preskill, & Russ-Eft, 1997; Phillips, 1998; Boulmetis & Dutwin, 2000). The pilot test of the



instrument occurred at a manufacturing facility located in one of the local community college districts. The pilot test group consisted of 18 subjects: (a) 11 workforce training program participants and (b) 7 supervisors.

Field testing of the instrument occurred at two separate locations, one in each community college district. A manufacturer of healthcare products was the site of the first field test. The training program was a voluntary basic mathematics course. The second field test took place at a regional hospital. The training program was a mandatory customer service course. The sample group for the field test consisted of 34 workforce training program participants and 11 supervisors.

Data analysis procedures included an item analysis of responses of the participants, their supervisors, and participant-supervisor pairs by frequency and percent. Item responses were analyzed for each field test. A combined item analysis of responses of participant-supervisor pairs by frequency and percent was also provided. This data was presented in tables in Chapter IV.

Research Question 1, "Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the programmatic effectiveness of the recently completed workforce training program?" was answered negatively. Item responses from both field tests for items 1 through 13, those items evaluating programmatic factors, indicated a consensus of response among the responding participants, consensus of that same response among the responding supervisors, and consensus of that same response among responding participant-supervisor pairs. The combined item responses of participant-supervisor pairs by frequency and percent for



programmatic factors indicated a consensus of response among a majority of responding pairs for 12 of the 13 items. Item 10, "I felt comfortable asking the instructor questions," was the only item that had a larger percentage of no complete response rather than consensus of response.

Information obtained by the researcher from the supervisors during the field tests indicated that some of those items evaluating programmatic factors were difficult for them to respond to since the supervisors were not participants in the training program.

Therefore, several of the supervisors chose not to respond to some items, such as item 10. Some of the supervisors, however, had discussed the training program with their employees and had gathered enough information to answer many of the items.

Research Question 2, "Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the personal effectiveness of the recently completed workforce training program?" was answered affirmatively, indicating a difference in response among the participants and their supervisors. Item responses from each field test indicated disagreement in response among a majority of the responding participants and a majority of the responding supervisors for four of the eight items evaluating personal factors. Three of those four items, items 18 through 20, indicated disagreement in response on both field tests.

Item responses from Field Test I for item 17, "my desire to continue my education has increased" indicated a consensus of the same response among a majority of the participants, responding supervisors, and participant-supervisor pairs. In contrast, item responses from Field Test II for item 17 indicated a disagreement in response among



responding participants and supervisors. The difference in the results of the item responses for item 17 could be attributed to the fact that the training was voluntary in Field Test I and mandatory in Field Test II.

The combined item responses of participant-supervisor pairs by frequency and percent for personal factors also indicated disagreement in response among a majority of the pairs for items 18 through 20. The combined item responses indicated a majority of no complete response on item 14 and item 17. Only two of the eight items evaluating personal factors had an overwhelmingly high percentage of agreement of response among responding participant-supervisor pairs. The percentage of agreement of response for item 16, "I am proud of my work and how it contributes to the success of the company," was 73 percent. The percentage of agreement of response for item 21, "I am now able to perform my job better," was 82 percent.

Information obtained by the researcher from the supervisors during both field tests indicated their difficulty in responding to the items in the category of personal factors. The instrument was administered to the supervisors in Field Test I only two days after the conclusion of the training program. The instrument was administered to the supervisors in Field Test II only one week after the conclusion of the training program. It was the opinion of the supervisors that there was not enough time between the conclusion of the training program and the evaluation to observe measurable results. Findings from the literature (Shapiro, 1995; Gordon, 1996; Robinson, D. G., 1996; Parry, 1997; Rossi, Freeman, & Lipsey, 1999) indicate that effective program evaluation is a continuous process, not one that occurs only at the conclusion of a training program.



Many of the items contained in the category of personal factors were specific to the participants' feelings about their quality of life and academic achievement. This also made it very difficult for the supervisors to respond to those items without having ample time to observe the behavior of the participants or to discuss those items with them. Therefore, the supervisors chose either to disagree with many of the items or to not respond to them. Kirkpatrick (1998) states that personal factors involve a change in attitude, development or improvement of a skill, or a change in self-esteem. These factors can not be evaluated immediately at the conclusion of a training program. Research Question 3, "Is there a difference between the reactions of participants and the reactions of the participants' supervisors to the external effectiveness of the recently completed workforce training program?" was answered affirmatively. Item responses from Field Test I showed a disagreement of response among a majority of the responding participants and a majority of the responding supervisors for three of the six items evaluating external factors. Item responses from Field Test II showed a disagreement of response among a majority of the responding participants and a majority of the responding supervisors for five of the six items evaluating external factors. Both field tests indicated disagreement of response among a majority of the responding participants and a majority of the responding supervisors for items 23, 26, and 27. Item 23 referred to an increase in the chances of making more money. Items 26 and 27 referred to the ability to get along better with co-workers and supervisors, respectively.

Item responses from Field Test I for item 22, "my chances of getting a job, keeping my job, or advancing in my job have increased" indicated a consensus of the



same response among a majority of the participants, responding supervisors, and participant-supervisor pairs. In contrast, item responses from Field Test II for item 22 indicated a disagreement in response among responding participants and supervisors. Item responses from Field Test I and Field Test II for item 24, "my ability to contribute to the well-being of my family has increased," indicated results similar to those for item 22. The differences in the results of the item responses for items 22 and 24 could be a result of the training being voluntary in Field Test I and mandatory in Field Test II.

Item 25, "I have been given or offered more responsibility in my job," was the only item to receive a majority of a consensus of response among participants, supervisors, and participant-supervisor pairs for both field tests. The combined item responses of participant-supervisor pairs to all items evaluating external factors indicated a higher percentage of disagreement of response rather than agreement of response or no complete response.

Information obtained by the researcher from the supervisors during both field tests indicated their difficulty in responding to the items in the category of external factors. This difficulty could again be attributed to the short period of time between the conclusion of the training program and the administration of the evaluation instrument. It was the opinion of the supervisors that there was not enough time between the conclusion of the training program and the evaluation to observe measurable results. Therefore, many of the supervisors chose either to disagree with some items or to not respond to them. External indicators of effectiveness are the most difficult to evaluate and require ample time to observe results (Kirkpatrick, 1998).



Conclusions

Based on the data collected from the study the following conclusions were made:

- 1. The programmatic effectiveness of the workforce training program can be evaluated immediately at the conclusion of the training program using the instrument developed for this study.
- The personal effectiveness of the workforce training program can not be evaluated immediately at the conclusion of the training program using the instrument developed for this study.
- The external effectiveness of the workforce training program can not be evaluated immediately at the conclusion of the training program using the instrument developed for this study.

Recommendations

Based on the data collected in this study, the following recommendations are made:

- This study was conducted with two workforce training programs and a sample size of 34. It is recommended that the study be continued with several workforce training programs and a larger sample size.
- The evaluation instrument was administered to the supervisors in both field test groups within a short period of time following the conclusion of the workforce training program. It is recommended that the evaluation



- instrument be administered to the supervisors of the workforce training program participants after they have had ample time to discuss the training with the participants and observe changes in their behavior.
- 3. Participants were able to respond to items evaluating programmatic factors immediately following the workforce training program. It is recommended that the participants evaluate the personal and external effectiveness of the workforce training program after they have had ample time to use the skills learned and recognize any changes in their behavior.
- Further research is needed in order to determine if there are differences in responses from participants in voluntary and mandatory workforce training programs.



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APPENDICES



APPENDIX A LEGISLATIVE ACCOUNTABILITY REPORT



LEGISLATIVE ACCOUNTABILITY REPORT

Please answer all questions as they provide the accountability and quality assurance for our system. This information will remain CONFIDENTIAL and will be reported to the State Workforce Development Council and the State Legislature only as a consolidated report of <u>all</u> businesses, industries, agencies and organizations served. Your original report will be returned to the below listed address.

ompany Name:				College:				Fiscal Year:
							(State)	
ompany Address:		·		(Cit	¥)		[S[aie]	
Information submitted by: _	Name	*			/	Position		PH. NO.
Please provide the following	name I for only your plant	business 0	organization	n location:				•
2a. Does your business en	nploy fewer than 25 (persons?	□ rsY □	Fewer than	100?	Yes 🖸 N	-	
AL & Houseway of Vous ems	lovees received train	nina from 8	Career Ce	nter at you	busines:	s/organization	location?	
2. • How many of your emp	lovees received train	ing from a	Career Ce	nter, at the	Career Co	enter, or away	from your	business?
2d. Did your company or b		age of the	Career Cen	ter's pre-en	ploymen	t training, emp	ployment c	gunicanou biodistu neiole
hidng new employees?	☐ Yes ☐ No					4 &	-i 50	ed or future need for training?
2e. Did your company take	advantage of having	all or part	t of your ex	isting work	torce ass	esseg to deter	illille a moi	ed or future need for training?
☐ Yes ☐ No					•			•
**Estimate your company's 1	inancial contribution	to this tra	ining partn	ershlp				
As a result of training avai			to evosed	onerations	to loc	ate additional	plants 🗆 c	or to remain in
Mississippi as a result of t	raining? LI NA LI							• -
. How much do you expect	the training received	to Increas	e your ann	ual sales or - 149,999	revenue			cable to our organization - 1,500,000
	☐ None ☐ \$1,000 - 9,999		150,00	0 - 499,999		Q	1,500,000	F
٠.,	D 10,000 - 49,999		500,0	999,999			Non-Qua	•
. What annual savings do y	ou anticipate from t	ne training	received?	Ţ	Not a	pplicablé to o 0 - 149,999	ur organiza	ation 1,000,000 - 1,500,000
	•	C \$1,00	0 - 9,999	(150,00	00 - 499,999 00 - 999,999		1,500,000+ Non-Quantifiable
		•	0 - 49,999		-	00 - 333,333	<u> </u>	
As a result of training, how	v many jobs were 🗆	created 🗆	retained?	☐ Not App	licable			•
Created: →	Q 1 - 9	Q 50 - 74	_	Retained:	→	□ 1 - 9 □ 10 - 24		50 - 74 75 - 149
	□ 10 - 24 □ 25 - 49	□ 75 - 14 □ 150+	19			25 - 49		150+
a. The average wage for Job	□ \$ 5.25 - 6.49		Q 8.00-	9.99		□ 13.00 - 15. □ 16.00 and		
	□ 6.50 - 7.99		10.00 -	1233		. 10.00 dila	45010	
b. The average wage for Jobs	retained in question S 5.25 - 6.49	n 6 is:	□ 8.00-	9.99		Q 13.00 - 15.	99	
	6.50 - 7.99		10.00			☐ 16.00 and		
c. What was the average Inc	rease of wages per	hour (for e	mployees)	attributed t	o training	7 🗅 Not 8	pplicable (to our organization
·· ·	□ None		□ .11 · .	25		□ .5175	0	1.50 and above
	\$.0110		Q .26·.	50		□ .76 - 1.50		
. Did the training provided	meet your expectable	eno?	☐ Yes	□ No	OBT 🖸			
B. Would you use the coileg			☐ Yes	□ No				
Fromit Ann was are named						nae haleha el	ould only	be counted once. Some example

[&]quot;This includes both direct and in-kind costs such as salaries paid to employees while they are receiving training, equipment purchased for training, overtime paid for training, contributions to employees' schooling, and paid time off to take the GED, etc.

Revised 3/15/99



^{* 2}b/2c - These are non-duplicated numbers. If a person was trained more than once in a year, he/she should only be counted once. Some examples follow: a person receives forkilit training and safety training; that's one person trained. If you employ 1,000 persons your answer would be 750 trained in 2b and 250 in 2c. It is possible to train more than you employ. Turnover and pre-employment are two examples. You might be putting on a third shift of 100 persons, but you assess and put through 350 to get the 100. You can see your number could be 250 persons greater than you employ. If an employee is trained both at and away from your site, count him/her only one time.

APPENDIX B
SAMPLE QUESTIONNAIRE ITEMS



Sample Questionnaire Items

External Factors:

Financial:

- 1) My chances of keeping my job have increased.
- 2) My chances of making more money have increased.
- 3) My chances of getting better opportunities for other jobs within my department or company have increased.
- 4) My chances of getting a better job somewhere else have increased.
- 5) My ability to contribute to the well-being of my family has increased.

External Factors:

Context-Based:

- 6) I have been given or offered more responsibility on my job.
- 7) I seem to get along better with my co-workers
- 8) The positive interaction I have with my supervisor(s) has increased.

Personal Factors:

Quality of Life:

- 9) I have more confidence in what I can do.
- 10) My attitude about work has improved.
- 11) I am proud of my work and how it contributes to the success of the company.
- 12) My desire to continue my education has increased.

Personal Factors:

Academic Achievement:

- 13) My ability to communicate with my co-workers has increased.
- 14) My ability to communicate with my supervisor(s) has increased.
- 15) My ability to solve problems by myself on my job has increased.
- 16) I can do my job better.
- 17) My ability to use my math skills on the job has increased.
- 18) My ability to make decisions by myself on my job has increased.
- 19) My ability to read job information like instructions and manuals has increased.



Programmatic Factors:

Program Content:

- 20) The information taught in the class helped me in my personal life.
- 21) The information taught in the class helped me know more about my job.
- 22) I am able to use the knowledge I have gained from this class away from my job.
- 23) The information taught in the class relates directly to my current job responsibilities.
- 24) The course material was organized.
- 25) The course material was useful and easy to follow.
- 26) I felt comfortable asking the teacher questions.
- 27) The teacher gave me information about my progress.
- 28) The teacher encouraged me.
- 29) The teacher was available when I needed help.
- 30) The teacher demonstrated thorough knowledge and understanding of the topic.
- 31) The teacher presented the information in a clear, understandable, and professional manner.
- 32) The teacher was well-prepared.

Programmatic Factors:

Program Structure:

- 33) Getting information about the classes held at work was easy.
- 34) The company encouraged me to attend classes.
- 35) The company encouraged me to continue taking classes at work.
- The amount of time scheduled for this class was exactly what was needed to meet my objectives.
- 37) My supervisor(s) encouraged me to attend classes at work.
- 38) The teacher encouraged me to attend classes at work.
- 39) The teacher knew how to teach the course material.
- 40) The facilities for the class were comfortable.
- 41) I would recommend this course to others.



APPENDIX C PILOT TEST SURVEY QUESTIONNAIRE



WORKFORCE TRAINING PROGRAM EVALUATION

Pilot Test Survey Questionnaire

Directions: (To be read to the participant.)

Please read each item below and respond by giving an item critique. Make any recommendations for changes to each item. Please note any areas of confusion which may cause the item to be misinterpreted by future participants or supervisors. Space is provided following each item for you to make your suggestions.

Thank you for your assistance in this research study.

I am	completing this survey as a:workforce training program participant					
	supervisor of a workforce training program participant.					
Prog Prog	Programmatic Factors: Program Content:					
1)	The course material was organized and easy to follow.					
2)	The information taught in the class helped me (my employee) in my (his/her) personal life.					
3)	The information taught in the class helped me (my employee) know more about my (his/her) job.					
4)	The information taught in the class relates to my (my employee's) current job responsibilities.					
Prog Prog	rammatic Factors: ram Structure and Facilities:					
5)	Getting information about the classes held at work was easy.					
6)	The amount of time scheduled for this class was exactly what was needed to meet my (my employee's) objectives.					
7)	The facilities for the class were comfortable.					
8)	I would recommend this course to others.					
9)	My (my employee's) attendance at this training program was required.					
Prog Insti	grammatic Factors: ructor:					
10)	I (my employee) felt comfortable asking the instructor questions.					
11)	The instructor was encouraging.					
12)	The instructor was available when I (my employee) needed help.					



13) The instructor presented the information in a clear, understandable, and professional manner. **Personal Factors:** Quality of Life: I have (my employee has) more confidence in what I (he/she) can do. My (my employee's) attitude about work has improved. 15) I am (my employee is) proud of my (his/her) work and how it contributes to the success of the company. 16) 17) My (my employee's) desire to continue my (his/her) education has increased. **Personal Factors:** Academic Achievement: My (my employee's) ability to communicate with my (his/her) co-workers has increased. 19) My (my employee's) ability to communicate with my (his/her) supervisor has increased. 20) My (my employee's) ability to solve problems and make decisions (large or small) on my (his/her) job has increased. 21) I (my employee) can do my (his/her) job better. **External Factors:** Financial: 22) My (my employee's) chances of getting a job, keeping my (his/her) job, or advancing on my (his/her) job have increased. 23) My (my employee's) chances of making more money have increased. My (my employee's) ability to contribute to the well-being of my (his/her) family has increased. 24) **External Factors:** Context-Based: 25) I have (my employee has) been given or offered more responsibility on my (his/her) job. 26) I get (my employee gets) along better with my (his/her) co-workers. I get (my employee gets) along better with my (his/her) supervisor. 27)



APPENDIX D

PILOT TEST CONSENT FORM



PILOT TEST

In-Person Introduction and Participant Consent Form (to be read to subjects)

Hello, my name is Marjorie Taylor. I am a graduate student at Delta State University. I am conducting a research study on the effectiveness of workforce training programs in the Mississippi Delta.

I have developed a survey questionnaire to assess the reaction of participants and their supervisors toward workforce training programs conducted by Coahoma Community College and Mississippi Delta Community College. As a recent participant (or a supervisor of a recent participant) in a workforce training program, you have been selected to participate in a pilot test of the survey questionnaire.

I would like for you to read each item and respond by giving an item critique and make any recommendations for changes to the item. Please note any areas of confusion which may cause the item to be misinterpreted by future participants or supervisors. I have provided space following each item for you to make your suggestions.

The survey questionnaire you complete today will not be marked in any way that will identify you. I will look at everyone's information together.

Do you understand what I have read to you?		YES	NO
Do you voluntarily agree to take part in this pilot test?		YES	NO
Signature of person giving consent	Date		
Marione Jaylor Signature of person gelting consent		Date	

Marjorie Taylor Delta State University Box C-1 Cleveland, MS 38733 (662) 846-4027



APPENDIX E

FIELD TEST SURVEY QUESTIONNAIRE



WORKFORCE TRAINING PROGRAM EVALUATION

Field Test Survey Questionnaire

Directions:

 $(To\ be\ read\ to\ the\ participant.$ Participant items contain phrases in italics. Supervisor items contain phrases in parentheses.)

Please read each item below and respond by placing a check in the appropriate column. Space is provided at the end of the questionnaire for any comments you may have related to the effectiveness of the workforce training program.

Thank you for your assistance in this research study.						
I am completing this survey as a:						
workforce training program participant.	Number					
supervisor of a workforce training program participant.	Number					

	ITEMS	AGREE	DISAGREE
Prog Prog	rammatic Factors: ram Content:		
1)	The course material was organized and easy to follow.		
2)	The information taught in the class helped me (my employee) in my (his/her) personal life.	٠	_
3)	The information taught in the class helped <i>me</i> (my employee) know more about <i>my</i> (his/her) current job.		
4)	The information taught in the class relates to my (my employee's) current job responsibilities.		
Prog Prog	rammatic Factors: ram Structure and Facilities:		
5)	Getting information about the classes offered at work was easy.		
6)	The amount of time scheduled for this class was exactly what was needed to meet my (my employee's) objectives.		
7)	The facilities for the class were comfortable.		
8)	I would recommend this course to others.	_	
9)	My (my employee's) attendance at this training program was mandatory.		
	rammatic Factors: uctor:		
10)	I (my employee) felt comfortable asking the instructor questions.	_	
11)	The instructor encouraged my (my employee's) participation in class.		
12)	The instructor was available when I (my employee) needed help.		
13)	The instructor presented the information in a clear, understandable, and professional manner.		
	onal Factors: lity of Life:		
14)	I have (my employee has) more confidence in performing my (his/her) job responsibilities.		



15)	My (my employee's) attitude about work has improved.	
16)	I am (my employee is) proud of my (his/her) work and how it contributes to the success of the company.	
17)	My (my employee's) desire to continue my (his/her) education has increased.	į
	onal Factors: emic Achievement:	
18)	My (my employee's) ability to communicate with my (his/her) co-workers has improved.	
19)	My (my employee's) ability to communicate with my supervisor (me) has improved.	
20)	My (my employee's) ability to solve problems and make decisions, large or small, on my (his/her) job has increased.	
21)	I am (my employee is) now able to perform my (his/her) job better.	
Exter Finan	nal Factors: acial:	
22)	My (my employee's) chances of getting a job, keeping my (his/her) job, or advancing in my (his/her) job have increased.	
23)	My (my employee's) chances of making more money have increased.	
24)	My (my employee's) ability to contribute to the well-being of my (his/her) family has increased.	
	nal Factors: ext-Based:	
25)	I have (my employee has) been given or offered more responsibility in my (his/her) job.	
26)	I get (my employee gets) along better with my (his/her) co-workers.	
27)	I get (my employee gets) along better with my supervisor (me).	
Comm	ents:	



APPENDIX F

FIELD TEST CONSENT FORM



FIELD TEST

In-Person Introduction and Participant Consent Form (to be read to subjects)

Hello, my name is Marjorie Taylor. I am a graduate student at Delta State University. I am conducting a research study on the effectiveness of workforce training programs in the Mississippi Delta.

I have developed a survey questionnaire to assess the reaction of participants and their supervisors to the effectiveness of workforce training programs conducted by Coahoma Community College and Mississippi Delta Community College. As a participant (or a supervisor of a participant) in a workforce training program, you have been selected to participate in a field test of the survey questionnaire.

I am interested in the answers you give to questions about the workforce training program you (or your employee) participated in. I would like to know how you (or your employee) felt about the program content, the program structure and facilities, and the instructor. I would also like to know how the program affected your (or your employee's) educational goals, work, and personal life.

I will NOT keep your name with the questionnaire. No one will ever be told of the answers you give. I will look at everyone's information together.

Do you understand what I have read to you?	YES	NO
Do you voluntarily agree to take part in this field test?	YES	NO
Signature of person giving consent	Date	
Signature of person getting consent	Date	

Marjorie Taylor Delta State University Box C-1 Cleveland, MS 38733 (662) 846-4027





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Organization/Addess:

Greenville Higher Education Center

2900 A Highway I South

Greenville, MS 38701

Printed Name/Position/Title:

Dr. Marincie A. T

Telephone:

(60 - 330 - 850)

E-Mail Address:

(Mataylor@shec.)

Dr. Marincie A. T

Telephone:

(60 - 380 - 850)

Dr. Marincie A. T

Telephone:

(60 - 380 - 850)

Dr. Marincie A. T

Telephone:

(60 - 380 - 850)

Dr. Marincie A. T

Telephone:

(60 - 380 - 850)

Dr. Marincie A. T

Telephone:

(60 - 380 - 850)

Dr. Marincie A. T

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