DOCUMENT RESUME

ED 308 397 CE 052 832

AUTHOR Torry, Jane A.

TITLE ITIP: An Investigation into the Perceived Usage of

ITIP Training among Vocational Teachers and Staff.

PUB DATE 89

NOTE 90p.; Master's thesis, Ferris State University.

PUB TYPE Dissertations/Theses - Master Theses (042)

EDRS PRICE MF01/PC04 Plus Postage.

DESCRIPTORS *Inservice Teacher Education; *Instructional

Effectiveness; *Instructional Improvement; *Methods Courses; Secondary Education; *Teaching Methods; Vocational Education; *Vocational Education

Teachers

IDENTIFIERS *Instructional Theory into Practice

ABSTRACT

This descriptive study of vocational teachers' classroom "ehavior and their students' achievement after the teachers took ITIP (Instructional Theory into Practice) training found the following: (1) vocational classroom teachers perceived some increase in their instructional skill in all areas, although the majority of respondents reported no change in the use of 26 skills; (2) student achievement, as perceived by teachers, increased in all areas, ranging from 17.2 percent to 60 percent; and (3) the higher the teache 's degree and the certificate held, the higher that teacher rated and perceived use of some skills. Questionnaire responses from 32 teachers, counselors, and administrators in Michigan's second largest school district were analyzed. In addition to the demographic information they provided, respondents used the questionnaires to rate the importance of, and their use of, 30 instructional skills they had learned to use during their ITIP training. The teachers reported an increase in their use of wait time, creating a level of concern, and creating an environment for success of the students. The majority of respondents reported that, after the teachers' training, their students more often had better answers to questions and responded to success, while the majority reported no change in 11 other measures of student achievement. (The document contains a 14-item reference list.) (CML)

Reproductions supplied by EDRS are the best that can be made from the original document.

The second of th

ITIP: AN INVESTIGATION INTO THE PERCEIVED USAGE
OF ITIP TRAINING AMONG VOCATIONAL TEACHERS AND STAFF

a la chialantata i amin'a

by

Jane A. Torry

A thesis

submitted in partial fulfillment

of the requirements for the degree of

Masters of Science in Occupational Education

in the School of Education

in the school of Education

Ferris State University

Spring 1989

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

- This document has been reproduced as received from the person or organization originating it
- Minor changes have been made to improve reproduction quality
- Points of view or opinions stated in this document do not necessarily represent official OERI position or policy

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

TABLE OF CONTENTS

| Lis | st of Tables | |
|------|---|--|
| Lis | t of Graphs | |
| I. | Background and Statement | |
| | Statement of the Problem | |
| | Purpose of the Study | |
| | Research Questions to be Answered | |
| | Limit and Scope of this Study | |
| | Assumptions | |
| | Format of the Study | |
| II. | Review of Literature | |
| | Introduction | |
| III. | Research Methodology | |
| | Population and Sample | |
| | Development of the Survey Instrument | |
| | Administration of the Survey Instrument | |
| IV. | Presentation and Analysis of Data | |
| | Analysis of Survey Effectiveness | |
| | Demographics of Survey | |
| | T-Test Summaries | |
| | Graphs of Significant Differences | |
| | Summary of Analysis | |
| | Survey Instrument | |



| ٧. | Summary | and | Со | ncl | .us | io | ns | | | | | | | | | | _ | | | | | 7 | ſ |
|------|-----------|------|-----|-----|-----|----|----|---|---|---|---|---|---|---|---|---|---|--|--|--|---|-----|---|
| | Summary | | | | | | | | | | | | | | | | | | | | | | |
| | Research | | | | | | | | | | | | | | | | | | | | | | |
| | Research | | | | | | | | | | | | | | | | | | | | | | |
| | Research | | | | | | | | | | | | | | | | | | | | | | |
| | Research | | | | | | | | | | | | | | | | | | | | | | |
| | Conclusio | ons | | | | • | • | * | | | | | | | | | | | | | | 73 | Ş |
| | Recommend | lati | ons | | • | | | | | | | | | | | | | | | | | 73 | ; |
| Appe | endices . | • | | • | • | | | | • | • | | • | | | | | | | | | | 75 | |
| | Survey . | • | | • | • | • | • | • | • | • | | | • | • | • | • | | | | | • | 76 | |
| | Letters . | | | | | | | | | | | | | | | | | | | | | | |
| | iography | | | | | | | | | | | | | | | | | | | | | 82 | |
| Refe | rences . | | | | | | | | | _ | _ | | | | | | | | | | | 0.0 | |



LIST OF TABLES

| Table | | | | | | | | | | | | | | | | | | | | | | | | P | age |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|-----|
| 4.01 | | | | | • | | | | | • | | | • | | • | • | • | • | | | | | | | 12 |
| 4.02 | | | | | | | | | | | | | | | | | | • | | | | | | | 12 |
| 4.03 | | | | • | | | | • | | | • | • | • | | | | | | | • | • | | | | 13 |
| 4.04 | | • | | • | | • | | | • | | | | | | | | | | | | | • | | | 13 |
| 4.05 | | • | | | | | | | | | | | | | | | | | | | | • | • | | 14 |
| 4.06 | | | | | | • | | | | | | | | | | | | | | | | | • | | 14 |
| 4.07 | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| 4.08 | | | | | | | | | • | | | | | | | | | | | | | | • | | 16 |
| 4.09 | | | | | | | | | • | | | | | | | | | | • | | | | | | 19 |
| 4.10 | | • | • | | • | | | | • | | | | | | | | | | | | | | • | | 22 |
| 4.11 | | | | • | | • | | | • | • | | | | | | | | • | | • | | | | | 26 |
| 4.12 | | | | | | • | | | | | | | | | | | | | | | | | | | 27 |
| 4.13 | | • | • | | | | | | | | | | • | | | | | | | | | | | | 27 |
| 4.14 | | | | • | | | • | | | | | | | | | | | | | | | | | | 28 |
| 4.15 | | | • | | | | • | | • | | | | | | | | | | | , | | | | | 29 |
| 4.16 | • | | • | | • | | • | | | | • | | | | | | | | | | | | • | | 30 |
| 4.17 | • | | • | | | | • | | | | | | | | | | | | | | | | | | 31 |
| 4.18 | | , | | | | | • | | | | | | | | | | | | | | | | | | 32 |
| 4.19 | | | | | | | | | • | | | | | | | | | | | | | | | | 33 |
| 4.20 | | | | | | | | | | | | | | | | | | | | | | | | | 34 |



LIST OF FIGURES

| Figur | e | | | | | | | | | | | | | | | | | | | | | | | | | | | F | age |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| 4.01 | | | • | | • | • | | • | | • | • | | | | | | | | | | | | | | | | | | 36 |
| 4.02 | | • | | | | | | , | | | | | | | | | | | | ٠ | | | | • | | | | | 37 |
| 4.03 | • | • | | | | | • | • | | | | | | | | | | | | | | | | | • | | | | 38 |
| 4.04 | | | | | | | | | | | | | • | | | | | | | | | • | | | | | | | 39 |
| 4.05 | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | 40 |
| 4.06 | • | | | | • | • | | | | | • | | | | | | | | | | | | | • | ٠ | | | | 41 |
| 4.07 | • | • | • | • | • | | • | • | • | | • | • | | | | | • | • | • | • | • | • | • | | • | • | | • | 43 |
| 4.08 | | • | • | • | | | • | | • | • | • | • | • | • | • | • | | • | • | | | • | | | • | | | | 45 |
| 4.09 | | • | • | | • | • | • | | • | | • | • | • | • | • | • | • | • | • | • | • | | • | • | | | | | 47 |
| 4.10 | | • | | • | • | | | | • | • | • | | | • | • | | | | | | | | | | • | • | • | | 48 |
| 4.11 | • | | • | • | | | • | • | | | • | | • | • | | • | | | • | | | | • | | | | | | 49 |
| 4.12 | | • | • | • | • | • | • | • | | | | | • | • | | | | | | | | | | | | | | | 50 |
| 4.13 | • | | • | • | • | • | | • | • | | • | • | • | | • | | | | | | • | | | | | • | | | 51 |
| 4.14 | • | • | • | • | | • | | • | • | | • | • | • | • | • | | | | • | • | | | | • | | • | • | | 52 |
| 4.15 | • | | • | | | | • | | • | • | | | • | • | • | | | , | • | | | | | | | | • | | 53 |
| 4.16 | | • | • | | | | • | | | • | | • | • | | | | • | | | | | | | | | | | | 54 |
| 4.17 | • | | | • | | • | | • | • | • | • | | | | | | | | | | | | | | | | | | 56 |
| 4.18 | | | • | • | • | ٠ | • | • | • | • | | | • | | • | | | | • | | | | | | | | | | 58 |
| 4.19 | | | • | | | • | • | | | • | | | • | | | | • | | • | | | | | | | | | | 59 |
| 4.20 | | • | | | • | | | | | | | | | | | | | | | | | | | | | | | | 61 |
| 4.21 | | | | | • | | | | • | | | | | | | | | | | | | | | | | | | | 62 |
| 4.22 | | | | | | • | | | | | | • | | | | | | | | | | | | | | | | | 63 |
| 4.23 | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | 65 |
| 4.24 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | 67 |
| 4.25 | • | • | | • | | | | | • | | | • | | | | | | | | | | | | | | | | | 68 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



CHAPTER I

BACKGROUND AND STATEMENT OF THE PROBLEM

Madeline Hunter's (ITIP) Instructional Theory Into Practice is one of the most popular and widely used educational models that face us today, according to Stallings (1985), "Under What Conditions Do Children Thrive in the Madeline Hunter Model? A Report of Project Follow Through, Napa, California." Superintendents and principals of our second largest school district and others have been eager to introduce their staff to ITIP. With this sudden push of enthusiasm from administrators, teachers are being trained in ITIP at no cost to the teacher.

Statement of the Problem

There is a need to know if the teachers are using the ITIP training to the degree that the administrators think the teachers are using this free training.

Purpose of the Study

The results of this study can be used by the profession to continue training the teachers in the current fashion or possibly stimulate a new approach to ITIP training. This research may show the profession that ITIP training should be encouraged at the B.S. level. The results of this study may be used to encourage more school districts to implement ITIP training. Or this research may encourage other researchers to employ a new way to introduce ITIP training.

There have been many articles published on the value of ITIP, and many dollars spent in training teachers in ITIP. Now it must be known if the teachers are actually using their ITIP training and/or to what degree are they using this training.



This research will compare administrator's perceptions of the degree to which the teachers are using ITIP training and the degree to which teachers are actually using ITIP training, stratified by the demographics of the involved subjects.

Research Questions to be Answered

The questions to be answered are as follows:

- What classroom instructional skills were perceived to increase by teachers in the study?
- 2. Are there differences between teachers and administrators in their perceptions of teacher changes in instructional practices?
- 3. What changes do teachers see in student achievement as a result of using ITIP in the classroom?
- 4. Are there differences among demographic groups in teacher perceptions of student achievement and instructional practices?

A questionnaire will be developed and reviewed by a jury panel of professors at Ferris State University and a local ITIP trainer. Dr. John Jeffreys will be mailing and receiving the questionnaires to form a more valid reaction from the participants.

Limit and Scope of this Study

This study will be conducted in view of the following limitations: the research will be conducted at one vocational school in Michigan involving about sixty instructors, ten counselors, and five administrators.

Assumptions

The primary assumptions made with respect to the study are that

(a) ITIP is a valid method of increasing student achievement, and



(b) that teachers will utilize ITIP practices in their classrooms after training.

Being a teacher that has been through ITIP training with colleagues, this author believes that there are many "turned off" teachers who are not using ITIP. This author further believes that some teachers feel that this ITIP training was forced on them by administrators, the ITIP training doesn't pertain to them because they are secondary vocational instructors, that administrators believe that ITIP is some of the best training and motivation they can give to their teachers, and the author believes that administrators believe in the value of ITIP for bettering student achievement.

At this time there is no research available to show what is generally assumed to be true except for the increased training in ITIP.

Format of the Study

This study is organized into five chapters.

Chapter I, <u>Background and Statement of the Problem</u>: includes purpose of the study, statement of the problem, research questions to be answered, and format of the study.

Chapter II, <u>Review of the Literature</u>, contains a review of ITIP training by Madaline Hunter and research that has been conducted on effective teaching strategies.

Chapter III, Research and Methodology, includes the scope of the study, population, development of the survey instrument, administration of the survey, and analytic techniques.



Chapter IV, <u>Presentation and Analysis of Data</u>, includes an analysis and presentation of the data obtained in the study.

Chapter V, <u>Summary and Conclusions and Recommendations</u>, includes a summary of the findings and conclusions.



CHAPTER II

REVIEW OF RELATED LITERATURE

Introduction

The ERIC system was the primary source of related materials reviewed for this paper. The essence of the review revealed research dealing with the effective teaching strategies which Madaline Hunter appears to employ in her ITIP training program.

According to recent studies, 2,378 schools in 25 states are involved in different "school effectiveness programs." These programs demonstrate five correlates of an effective school: strong instructional leadership, positive school climate, high expectations, academic focus, and monitoring student achievement. (Wolfe, 1988)

As far as time-on-task goes, in Texas some schools went as far as increasing the length of the school day or the number days in the school year. This was actually a misuse of the research. Time-on-task is in the hands of the teacher as far as classroom management is concerned. Other forms of loss of time-on-task are absences and disruptions. Time-on-task research is effective when there is an appropriate amount of active learning. (Karweit, 1988)

Mastering appropriate techniques for asking questions should be a part of every teacher's routine. Questions are necessary to help students understand and utilize content in the formulation of ideas, concepts, relationships and principles. According to research, there are five major characteristics to keep in mind when formulating questions—be



concise, be challenging, be group oriented, adapt to age and ability of students, and initiate a variety and mix. Research also indicates that calling on non-volunteers can be effective as Jong as students who are called on can answer the question most of the time. Research also suggests to use wait time so students have time to think and formulate answers. Redirecting or probing is necessary if a student answers incorrectly. Also the use of praise honestly such as a smile or nod of approval is very effective. Madeline Hunter would call this success. (Ornstein, 1988)

Edward Lawton (1987) stated in his article that attitude and modeling behavior of the entire school staff is the most important factor in providing an effective shool learning environment. Attitude and modeling are also suggested by other researchers, thus, suggesting that people in control do make a difference in student's lives.

Principals see effective schools as having a positive climate, thus, a school where the entire staff fosters a caring attitude, and the students feel good about attending and teachers feel good about teaching then will schools provide high achievement. Principals are promoting the idea that teachers do make a difference. (Wolf, 1988)

Research at the vocational level involves ability to establish objectives, planning lessons to meet those objectives, and choosing appropriate materials and methods. To evaluate instructional effectiveness, one could use feedback methods such as checklist, observations, anecdotal records, discussion, video taping, and student performance. (Gresham, 1984)

South Carolina sought to increase instructional effectiveness by providing for more effective use of classroom time by reducing



interruptions to emergencies, thus trying to aim in on the time-on-task which has been a concern of many educators. (South Caroline, 1984).

Massachusetts made a list of twenty teaching skills to create effective teaching. Some of the characteristics are establishing a set, closure, pacing (adjusting to the rate of comprehension), asking questions, using expressions (voice tone, gestures, etc.), student participation, interpersonal relations (relating to students in ways which promote mutual respect), enthusiasm, variety of teaching methods, creativity, level of challenge, and relevency to mention a few.

These concepts are very much in line with other concerned researchers. (Bartell, 1987).

Effective literacy programs prove that peer tutoring and teacher behavior and attitude are basic to learning (Phillips, 1985). The research states that teachers need to attend to their students' emotional and affective needs while they are providing instruction. The prominant behavior is willingness to praise, demonstrate high expectations, patience and respect, and creativity and skill at establishing a relaxed, safe, trusting classroom environment. Most research appears to be aiming in the same direction for effective teaching skills. Now to train the teachers that we have in how to use these skills to gain higher achievement in students is the next step.

One of the most popular models to surface is ITIP (Instructional Theory Into Practice) by Madeline Hunter. From the project in California these concepts emerged: use of set, check for understanding as you teach, use of objectives and sticking to them, guided practice, and closure. These components were found to be effective instructional techniques when used by teachers (Stallings, 1985).



According to Carol Cummings (1980), students' learning gains lie directly with the school and even more directly with the teacher. In her book she says that selecting the level of difficulty and level of complexity are as important as teaching to the objective. She uses Madeline Hunter's ITIP style throughout her book. She encourages monitoring and adjusting, active participation, set and closure, reinforcement (feedback and smiles), motivation, and guided practice (questions and checking for understanding). She also encourages small group or peer type learning. It appears that Hunter is in agreement with all the recent research. But she has added another touch, that is to teach the teachers the skills to promote higher student achievement.

Research findings published by the J.S. Department of Education (1986) tell us that teachers who set and communicate high expectations to all their students obtain greater academic performance, that the amount of time students are actively engaged in learning contributes strongly to their achiev ment, that student achievement rises when teachers ask questions that require students to apply, analyze, synthesize, and evaluate information. Hunter has also taken all of this research and worked it into her ITIP program.

For the most part, this literature review says that teachers do make a difference in the classroom. This review provides us with the knowledge of techniques that are effective in bringing about nigher achievement in students, as well as a training program for teachers to learn how to promote and use this information. Now the question is, are the teachers using these effective teaching techniques.



CHAPTER III

METHODOLOGY AND PROCEDURES

This is a nonexperimental descriptive design which will show a relationship between administrators' preceived value of ITIP and the teachers' perceived value of ITIP. It will also show a relationship between administrators' perceived usage of ITIP and the teachers' preceived usage of the ITIP training.

There will be no pilot studies conducted.

Population and Sample Size

The information will be gathered from 58 teachers, six counselors, and five administrators with one to seventeen years of teaching or counseling experience in a vocational setting. The subjects have backgrounds in auto body, auto mechanics, cosmotology, foods, baking, horticulture, floral design, marine mechanics, child care, CAD, three-phase graphic arts, marketing, health, electronics, building construction, machine tool, secretarial, computer, accounting, maintenance, janitorial, uphostery, and welding. This study is being conducted in Michigan's second largest school district (limited and vocational).

Development of the Survey Instrument

An author-developed questionnaire which will be reviewed by a panel of experts will be used for the study. This questionnaire will contain demographic information in multiple choice format and classroom behavior and achievement information in a scaled response format.



Administration of the Survey

The questionnaires will be mailed to the Kent Skills Center and College Avenue Skills Center by Dr. John Jeffrey, Superintendent of the Big Rapids Public Schools by winter of 1988-89. The subjects will fill out the questionnaire and return them to Dr. Jeffrey's office. Dr. Jeffrey will then give them to the author for analysis. This is being done to avoid as much controversy as possible in data collecting.

Another possible controversy could be the fact the Dr. Jeffrey was an ITIP instructor for about one quarter of the group in the study, therefore, some likes or dislikes toward Dr. Jeffrey could somewhat bias the questionnaire. One person will be doing the recording but all questionnaires will be saved until the study is concluded in case a review of material is needed.

Statistics will be obtained through means and percentages which will be displayed through charts, frequencies graphs, and T-test tables.

The study included a wide variety of subjects with varied back-grounds. The reviewing of the questionnaire by a pannel of experts and mailing them through an established office should secure a set of valid responses.

The research hopes to point out a positive or negative value of the ITIP training so that school districts know how far to carry out that ITIP training or whether to even offer ITIP to their teaching staff if they have not done so.



CHAPTER IV

PRESENTATION AND ANALYSIS OF DATA

This study is to determine the value of ITIP training. The survey placed an importance value on each ITIP training skill, as well as determining an increase or decrease in the use of the training skill or no apparent change in the use of the training skill.

The presentation of the data in Chapter IV follows a format of

(1) presentation and interpretation of the applicable data received

via survey, (2) charts of comparison, (3) frequency graphs of significant

differences, (4) summaries of T-test, and (5) a summary section.

Analysis of Survey Effectiveness

The survey was sent to all instructors, counselors, and administrators at the vocational level of the second largest school district in Michigan. There were 69 surveys sent with a return of 36; four were incomplete, therefore 32 were used for analysis. Table 4.01 shows the classification of the 32 respondents which is 46.3% of the total number of surveys mailed.

Demographics of the Survey

Tables 4.01 - 4.07 display the demographics of the survey respondents. Table 4.01 summarizes the respondents by their job titles.



<u>Table 4.01</u> Summary of Present Job Title

| Title of Respondent | Number of Respondents | Percent of Total Respondents |
|---------------------------|--------------------------|---------------------------------|
| Vocational Teacher | 27 | 84.4 |
| Special Education Teacher | 0 | 0 |
| Adminsitrator | 1 | 3.1 |
| Counselor | 1 | 3.1 |
| Other | 3 | 9.4 |
| Total | 32 | 100 |

Table 4.02 identifies the distribution according to the gender of respondents.

Table 4.02 Respondents by Gender

| Gender of Respondents | Number of Respondents | Percent of Total Respondents |
|--------------------------|--------------------------|---------------------------------|
| Male | 23 | 71.9 |
| Female | 9 | 28.1 |
| Total | 32 | 100 |



Table 4.03 summarizes the respondents school environment experience.

Table 4.03 Summary of Respondents School Related Work Experience

| Years of Experience | Number of Respondents | Percent of Total Respondents |
|---------------------|--------------------------|---------------------------------|
| 1-5 years | 7 | 21.9 |
| 6-10 years | 7 | 21.9 |
| 11+ years | 18 | 56.3 |
| Total | 32 | 100 |
| | | |

Table 4.04 summarizes the respondents by ethnic background.

Table 4.04 Summary of Ethnic Background

| Ethnic Background | Number of Respondents | Percent of Total Respondents |
|----------------------|--------------------------|---------------------------------|
| Caucasian | 28 | 90.3 |
| Hispanic | 2 | 6.5 |
| Asian | 1 | 3.2 |
| Black | 0 | 0 |
| Other | 1 | 0 |
| Total | 32 | 100 |



Table 4.05 summarizes the respondents educational experience.

Table 4.05 Summary of Respondents Education

| Type of Degree | Number of Respondents | Percent of Total Respondents |
|---------------------|--------------------------|---------------------------------|
| High School Diploma | 4 | 12.5 |
| Associate Degree | 1 | 3.1 |
| B.S. Degree | 20 | 62.5 |
| Masters | 7 | 21.9 |
| Other | 0 | 0 |
| Total | 32 | 100 |
| | | |

Table 4.06 summarizes the respondent's teaching certificate.

Table 4.06 Summary of Type of Certificate

| Type of Certificate | Number of Respondents | Percent of Total Respondents |
|-----------------------------|--------------------------|---------------------------------|
| Annual Authorization | 5 | 16.7 |
| Temporary Vocational Author | rization7 | 23.3 |
| Secondary Provisional Cert | ificate 5 | 16.7 |
| Full Vocational Authorizat: | ion 10 | 33.3 |
| Secondary Continuing Certif | icate 3 | 10.0 |
| Other | 2 | 0 |
| Total | 32 | 100 |



Table 4.07 summarizes the respondents by age.

<u>Table 4.07</u> Summary of Respondents by Age

| Age of Respondents | Number of Respondents | Percent of Total Respondents |
|-----------------------|--------------------------|---------------------------------|
| 20 - 25 years | 1 | 3.1 |
| 26 - 30 years | 1 | 3.1 |
| 31 - 35 years | 3 | 9.4 |
| 36 - 40 years | 8 | 25.0 |
| 41 - 45 years | 7 | 21.9 |
| 46 - 50 years | 5 | 15.6 |
| 51 - 55 years | 2 | 6.3 |
| 56 - 68 years | 5 | 15.6 |
| 61 - 65 years | 0 | 0 |
| Total | 32 | 100 |
| | | |



Ratings of the ITIP Training Skills

The following pages contain Tables 4.08 to 4.12. These tables contain rating scales using the mean, as well as other appropriate information to show totals and comparisons.

Table 4.08 summarizes the ITIP training skills of all respondents. Importance has a high rating of 5 and a low rating of 1. The use of the training skills is given in the percent for increase use of skill, decrease use of skill, or no change in the use.

Table 4.08 Summary of Importance and Increase

| Tuni | Importance | Use in Percent | | | | | | | |
|--|------------|----------------|----------|-----------|--|--|--|--|--|
| Training Skills | Mean | Increase | Decrease | No Change | | | | | |
| Promote active participa- tion of students | 4.47 | 43.8 | | 56.3 | | | | | |
| Monitor the learning process | 4.31 | 43.8 | | 56.3 | | | | | |
| Adjust your teaching to the pace of the students | 3.97 | 21.9 | | 78.1 | | | | | |
| Check for understanding by using signals | 3.03 | 37.5 | 9.4 | 53.1 | | | | | |
| Use of wait time | 4.06 | 68.8 | | 31.3 | | | | | |
| Involve most of the stu- dents most of the time | 4.28 | 43.8 | | 56.3 | | | | | |
| Use of praise in the classroom | 4.40 | 37.5 | | 62.5 | | | | | |
| Give immediate knowledge of results | 4.16 | 34.4 | | 65.6 | | | | | |
| Create a level of concern | 3.91 | 51.6 | 3.2 | 45.2 | | | | | |
| Check for level of difficulty | | 31.3 | J. L | 68.8 | | | | | |
| Lower the level of concern | 3.47 | 40.6 | 9.4 | 50.0 | | | | | |
| Lower the level of concern for the test | 3.72 | 43.8 | Z• T | 56.3 | | | | | |



Table 4.08 (cont)

| | Importance | U | Use in Percent | | | |
|---|------------|----------|----------------|-----------|--|--|
| Training Skills | Mean | Increase | Decrease | No Change | | |
| Do a task analysis for each objective | 3.94 | 18.8 | 3.1 | 78.1 | | |
| Move close to students who are disruptive (Proximity) | 4.03 | 34.4 | | 65.6 | | |
| Use Bloom Taxonomy | 3.74 | 43.8 | 3.1 | 53.1 | | |
| Improvement of time on task | 4.32 | 40.6 | | 59.4 | | |
| Teach to an objective | 4.58 | 37.5 | 3.1 | 59.4 | | |
| Ignore students who are showing off | 3.31 | 6.3 | 18.8 | 75.0 | | |
| Select students to answer questions (in a systematic way) | 3.77 | 35.5 | 9.7 | 54.8 | | |
| Provide for peer tutoring | 3.88 | 40.6 | | 49.4 | | |
| Create an environment for success of students | 4.66 | 62.5 | | 37.5 | | |
| Create a positive self-concept | 4.66 | 46.9 | | 53.1 | | |
| Use extrinsic rewards | 3.72 | 37.9 | 3.4 | 58.6 | | |
| Use "set" induction to prepare students for learning | g 4.06 | 50.0 | | 50.0 | | |
| Say good morning and/or good bye to students | 4.50 | 31.3 | | 68.8 | | |
| Provide closure | 4.23 | 48.8 | | 51.6 | | |
| Provide short practice for past learning | 4.19 | 34.4 | | 65.6 | | |
| Use lots of examples | 4.38 | 37.5 | | 62.5 | | |
| Make lessons meaningful | 4.75 | 40.6 | | 59.4 | | |
| Write directions on the board | 3.91 | 37.5 | | 62.5 | | |



Table 4.08 (cont)

| Student Achievement | Importance | Use in Percent | | | | |
|--|------------|----------------|--------------|-----------|--|--|
| | Mean | Increase | | No Change | | |
| Have better grades on | | | | | | |
| homework | 3.31 | 17.2 | | 82.9 | | |
| Turn in more homework | 2.79 | 17.2 | | 82.8 | | |
| Achieve higher test scores | 3.84 | 34.4 | 3.1 | 59.4 | | |
| Respond to signals | 2.81 | 41.9 | 9.7 | 48.4 | | |
| Have better answers to | | | | | | |
| oral questions | 4.03 | 60.0 | 3.3 | 36.7 | | |
| Pay attention longer | 4.13 | 45.2 | | 54.8 | | |
| Perform tasks quicker | 3.63 | 19.4 | 3.2 | 77.4 | | |
| Of low achievement answer | | | | | | |
| questions | 3.72 | 36.7 | | 63.3 | | |
| Translate concepts into their own words | | | | | | |
| | 4.25 | 43.8 | | 56.3 | | |
| Retain information from one assignment or quiz to another | 4.31 | 16.7 | | | | |
| Responds to praise | | 46.7 | | 53.1 | | |
| | 4.69 | 37.5 | 3.1 | 59.4 | | |
| Responds to rewards | 3.83 | 31.3 | 3.1 | 65.6 | | |
| Responds to success | 4.38 | 50.0 | 3.1 | 46.9 | | |
| Spends quality time on tasks | 4.31 | 43.8 | 3.1 | 51.1 | | |

Table 4.09

Table 4.09 summarizes the ITIP training skills by gender and the number of respondents. The rating scale to determine the mean has a low of 1 and the high of 5 in determining the improtance of the skill.



Table 4.09 Summary of Importance and Use

| | Male | | Female | | | |
|---|--------------------------|------|--------------------------|------|--|--|
| | Number of Respondents | Mean | Number of Respondents | Mean | | |
| Promote active parti- cipation of students | 23 | 4.35 | 9 | 4.78 | | |
| Monitor the learning process | 23 | 4.26 | 9 | 4.44 | | |
| Adjust your teaching to the pace of the students | 23 | 3.91 | 9 | 4.11 | | |
| Check for understanding by using signals | 22 | 3.00 | 9 | 3.11 | | |
| Use of wait time | 23 | 4.00 | 9 | 4.22 | | |
| Involve most of the students most of the time | 23 | 4.26 | 9 | 4.33 | | |
| Use of praise in the classroom | 23 | 4.17 | 9 | 5.00 | | |
| Cive immediate knowledge of results | 23 | 4 00 | 9 | 4.56 | | |
| Create a level of concern | 23 | 3.83 | 9 | 4.11 | | |
| Check for level of difficul | ty 22 | 3.64 | 9 | 4.11 | | |
| Lower the level of concern | 23 | 3.26 | 9 | 4.00 | | |
| Lower the level of concern for test | 23 | 3.52 | 9 | 4.22 | | |
| Do a task analysis for each objective | 23 | 3.87 | 9 | 4.11 | | |
| Move close to students who are disruptive (Proximity) | 23 | 3.96 | 9 | 4.22 | | |
| Use Bloom Taxonomy | 22 | 3.59 | 9 | 4.11 | | |
| improvement of time on task | 22 | 4.14 | 9 | 4.78 | | |
| Teach to an objective | 23 | 4.39 | 9 | 4.78 | | |
| Ignore students who are showing off | 23 | 3.00 | 9 | 4.11 | | |
| Select students to answer questions (in a systematic way) | 21 | 3.57 | 9 | 4.22 | | |



Table 4.09 (cont)

| Training Skills | Male Number of Respondents | Mean | Female Number of Respondents | Mean |
|--|----------------------------------|------|------------------------------------|------|
| Provide for peer tutoring | 23 | 3.87 | 9 | 3.89 |
| Create an environment for success of students | 23 | 3.57 | 9 | 4.89 |
| Create a positive self-concept | 23 | 4.57 | 9 | 4.90 |
| Use extrinsic rewards | 20 | 3.40 | 9 | 4.44 |
| Use "set" induction to prepare students for learning | 23 ing | 3.91 | 9 | 4.44 |
| Say good morning and/or good bye to students | 23 | 4.39 | 9 | 4.78 |
| Provide closure | 21 | 4.14 | 9 | 4.44 |
| Provide short practice for past learning | 23 | 4.00 | 9 | 4.67 |
| Use lots of examples | 23 | 4.26 | 9 | 4.67 |
| Make lessons meaningful | 23 | 4.74 | 9 | 4.78 |
| Write directions on the board | 23 | 3.78 | 9 | 4.22 |



Table 4.09 (cont)

| | Male | | Female | | | |
|---|--------------------------|------|--------------------------|------|--|--|
| Student Achievement | Number of Respondents | Mean | Number of Respondents | Mean | | |
| Have better grades on | 20 | 2.95 | 0 | 4.11 | | |
| homework | | | 9 | | | |
| Turn in more homework | 20 | 2.40 | 9 | 3.67 | | |
| Achieve higher test scores | 23 | 3.65 | 9 | 4.33 | | |
| Respond to signals | 22 | 2.91 | 9 | 2.56 | | |
| Have better answers to oral questions | 23 | 4.00 | 9 | 4.11 | | |
| Pay attention longer | 23 | 4.13 | 9 | 4.11 | | |
| Perform tasks quicker | 23 | 3.57 | 9 | 3.78 | | |
| Of low achievement answer questions | 20 | 3.70 | 9 | 3.78 | | |
| Translate concepts into their own words | 23 | 4.26 | 9 | 4.22 | | |
| Retain information from one assignment or quiz to | | | • | 1 56 | | |
| another | 23 | 4.22 | 9 | 4.56 | | |
| Responds to praise | 23 | 3.78 | 9 | 4.89 | | |
| Responds to rewards | 23 | 3.48 | 9 | 4.78 | | |
| Responds to success | 23 | 4.17 | 9 | 4.89 | | |
| Spends quality time on task | ks 23 | 4.30 | 9 | 4.33 | | |



Table 4.10 summarizes the ITIP training skill by years of experience and the number of respondents. The rating scale to determine the mean has a low of 1 and a high of 5 in determining the importance of the skill.

<u>Table 4.10</u>

| | l - 5 years Number of | | | Years of Experience 6 - 10 years | | ll+ years Number of | |
|--|--------------------------|------|-------------|-------------------------------------|-------------|------------------------|--|
| Training Skills | Respondents | Mean | Respondents | Mean | Respondents | Mean | |
| Promote active parti- | _ | | _ | | | | |
| cipation of students | 7 | 4.43 | 7 | 4.57 | 18 | 4.44 | |
| Monitor the learning process | 7 | 4.29 | 7 | 4.14 | 18 | 4.39 | |
| Adjust your teaching to the pace of the students | 7 | 4.29 | 7 | 3.86 | 18 | 3.89 | |
| Check for understanding by using signals | 7 | 2.71 | 7 | 2.14 | 17 | 3.53 | |
| Use of wait time | 7 | 4.14 | 7 | 3.57 | 17 | 4.22 | |
| Involve most of the students most of the time | 7 | 4.14 | 7 | 4.29 | 18 | 4.33 | |
| Use of praise in the classroo | om 7 | 4.54 | 7 | 4.43 | 18 | 4.33 | |
| Give immediate knowledge of results | 7 | 4.00 | 7 | 4.29 | 18 | 4.17 | |
| Create a level of concern | 7 | 4.14 | 7 | 3.71 | 18 | 3.99 | |
| Check for level of difficulty | 7 | 4.00 | 7 | 3.43 | 17 | 3.82 | |
| Lower level of concern | 7 | 3.71 | 7 | 3.14 | 18 | 3.50 | |
| Lower level of concern for test | 7 | 4.00 | 7 | 3.29 | 18 | 3.70 | |
| Profitat Rouldel by ERC | | | 20 | | | | |

Table 4.10 (cont)

| | l - 5 years Number of | | Years of 6 - 10 | Experien years | ce 11+ years Number of | |
|---|--------------------------|------|-----------------|-------------------|------------------------------|------|
| Training Skills | Respondents | Mean | Respondents | Mean | Respondents | Mean |
| Do a task analysis for each objective | 7 | 4.00 | 7 | 4.14 | 18 | 3.83 |
| Move close to students who are disruptive (Proximity) | 7 | 4.14 | 7 | 3.71 | 18 | 4.11 |
| Use Bloom Taxonomy | 7 | 3.86 | 7 | 3.43 | 17 | 3.82 |
| Improvement of time on task | 7 | 4.57 | 7 | 4.29 | 17 | 4.24 |
| Teach to an objective | 7 | 4.14 | 7 | 4.57 | 18 | 4.61 |
| Ignore students who are showing off | 7 | 3.43 | 7 | 3.29 | 18 | 3.28 |
| Select students to answer questions (in a systematic way |) 7 | 4.00 | 7 | 3.00 | 16 | 4.00 |
| Provide for peer tutoring | 7 | 4.00 | 7 | 3.57 | 18 | 3.94 |
| Create an environment for success of students | 7 | 4.57 | 7 | 4.86 | 18 | 4.61 |
| Create a positive self-concep | t 7 | 4.54 | 7 | 4.86 | 18 | 4.61 |
| Use extrinsic rewards | 7 | 4.33 | 7 | 3.00 | 17 | 4.76 |
| U. a "set" induction to prepar students for learning | e 7 | 4.00 | 7 | 4.14 | 18 | 4.06 |
| Say good morning and/or good bye to students | 7 | 4.71 | 7 | 4.42 | 18 | 4.41 |
| Provide closure | 7 | 4.57 | 7 | 4.00 | 16 | 4.19 |
| Provide short practice for | | | | | | |

4.43

7

29

4.14

18

4.11

7



Table 4.10 (cont)

| | l - 5 ye | ars | Years of 6 - 10 | • | ce ll+ year | s |
|-------------------------------|--------------------------|------|--------------------------|------|--------------------------|------|
| Training Skills | Number of Respondents | Mean | Number of Respondents | Mean | Number of Respondents | Mean |
| Use lots of examples | 7 | 4.86 | 7 | 3.86 | 18 | 4.39 |
| Make lessons meaningful | 7 | 4.86 | 7 | 4.71 | 18 | 4.72 |
| Write directions on the board | 7 | 3.86 | 7 | 4.00 | 18 | 3.89 |



Table 4.10 (cont)

| | | | Years of | | | |
|---|--------------------------|------|---------------------|-------|--------------------------|------|
| | l - 5 years Number of | | 6 - 10 Number of | years | 11+ year | rs |
| Student Achievement | Respondents | Mean | Respondents | Mean | Number of Respondents | Mean |
| Have better grades on | | | | | | |
| homework | 7 | 3.57 | 6 | 3.50 | 16 | 3.13 |
| Turn in more homework | 7 | 3.43 | 6 | 2.00 | 16 | 2.81 |
| Achieve higher test scores | 7 | 4.00 | 7 | 3.86 | 18 | 3.78 |
| Respond to signals | 7 | 2.29 | 7 | 2.57 | 17 | 3.11 |
| lave better answers to | | | | | | |
| oral questions | 7 | 4.43 | 7 | ٦.71 | 18 | 4.00 |
| ay attention longer | 7 | 4.14 | 7 | 4.00 | 18 | 4.17 |
| erform tasks quicker | 7 | 3.71 | 7 , | 3.43 | 18 | 3.67 |
| f low achievement answer | | | | | | |
| uestions | 7 | 3.43 | 6 | 3.58 | 16 | 3.94 |
| Cranslate concepts into | - | | _ | | | |
| heir own words | 7 | 4.29 | 7 | 4.00 | 18 | 4.33 |
| letain information from one ssignment or quiz to anoth | ner 7 | 3.57 | 7 | 4.29 | 18 | 4.22 |
| esponds to praise | 7 | 4.00 | 7 | 3.86 | 18 | 4.22 |
| esponds to rewards | 7 | 4.00 | 7 | 3.43 | 18 | 3.94 |
| esponds to success | 7 | 4.29 | 7 | 4.14 | 18 | 4.50 |
| pends quality time on tasks | s 7 | 4.29 | 7 | 4.14 | 18 | 4.39 |



T-Test Tables

Table 4.11 to 4.18 on the following pages summarize responses by use of the T-test in a pooled variance which is compared by gender.

A rating scale of 1 to 5 was used with 1 being low and 5 being the highest possible score.

Table 4.11 summarizes responses of the "Use of Praise." There were 23 males in Group 1 with a mean of 4.1739 and 9 females in Group 2 with a mean of 5.000. This data suggests that females are significantly more likely to use praise due to their ITIP training than males.

Table 4.11 Summary of "Use of Praise" Compared by Gender

| Varia | ble | Number of Cases | Mean | Standard Deviation | Standard Error |
|----------------|---------|--------------------|------------------|-----------------------|-------------------|
| Skill | Importa | nce | Use of I | Praise | |
| Group Group | | 23 9 | 4.1739 5.0000 | 1.029 0.000 | 0.215 0.000 |

Pooled Variance Estimate * Separate Variance Estimate

| | | | Degrees of Freedom | | | • | |
|------|-------|-------|-----------------------|-------|-------|-------|-------|
| 0.00 | 1.000 | -2.38 | 30 | 0.024 | -3.85 | 22.00 | 0.001 |

Actual T-test Value 2.04



Table 4.12 summarizes responses of "Ignoring students who are showing off." There are 23 males in Group 1 with a mean of 4.3910 and 9 females in Group 2 with a mean of 4.7778. This data suggests that females due to their ITIP training are significantly more likely to ignore students who show off than males.

<u>Table 4.12</u> Summary of "Ignoring Students Who are Showing Off" Compared by Gender

| Variable | Number of Cases | Mean | | dard ation | Standar Error | d |
|--------------------|-------------------------|-----------------------|---------------------------------------|----------------|-----------------------|-------------|
| Skill Impo | ortance | Ignore | Showoff | s | | |
| Group 1 Group 2 | 23 9 | 3.0000 4.1111 | 1.12 1.05 | ~ | 0.235 0.351 | |
| Pooled Var | riance Estimat | e * Separat | e Varian | ce Esti | mate | |
| | -Tail T rob. * Value | Degrees of Freedom | | * T * Value | Degrees of Freedom | |
| 1.15 0. | .893 -2.55 | 30 | 0.016 | -2.63 | 15.64 | 0.019 |
| Actual T-t | test Value 2. | .04 | · · · · · · · · · · · · · · · · · · · | | | |

Table 4.1^3 summarizes responses of "Use of Extrinsic Rewards." There are 20 males with a mean of 3.4000 in Group 1 and 9 females with a mean of 4.444 in Group 2. This data suggest that females are significantly more likely to use extrinsic rewards due to their ITIP training than males.

Table 4.13 Summary of "Use of Extrinsic Rewards," Compared by Gender

| Variable | | Number of Cases | Mean | | Standard Deviation | | Standard Error | | |
|---|-----------------|--------------------|-----------------------|-----------------------|-----------------------|-------|--------------------------------|-----------------|--|
| Skill | Importa | ance | Use Ext | Use Extrinsic Rewards | | | | | |
| Group Group | | 20 9 | 3.4000 4.4444 | 1.314 0.726 | | | 0.294 0.242 | | |
| Pooled Variance Estimate * Separate Vairance Estimate | | | | | | | | | |
| F Value | 2-Tail Prob. | | Degrees of Freedom | 2-Tail Prob. | | | Degrees of Freed o m | 2-Tail Prob. | |
| 3.27 | 0.091 | -2.22 | 27 | 0.035 | | -2.74 | 25.56 | 0.011 | |

Actual T-test Value 2.05



Table 4.14 summarizes the responses of "Students Having Better Grades on Homework." There were 20 males in Group 1 with a mean of 2.9500 and 9 females in Group 2 with a mean of 4.111. This table shows females rate "Having Better Grades on Homework" as significantly more important than males after having ITIP training.

Table 4.14 Summary of "Students Having Better Grades on Homework,"

Compared by Gender

| Variab | le | Number of Cases | Mean | Star Devi | | - | Standard Error | | | |
|---|--------|--------------------|-----------------------|--------------|----------------|------------|-----------------------|-----------------|--|--|
| Skill Importance - Have Better Grades | | | | | | | | | | |
| Group Group | | 20 9 | 2.9500 4.111 | | 1.468 0.928 | | 0.328 0.309 | | | |
| Pooled Variance Estimate * Separate Variance Estimate | | | | | | | | | | |
| F Value | 2-Tail | T 1 | Degrees of Freedom | 2-Tail | * | T Value | Degrees of Freedom | 2-Tail Prob. | | |
| 2.50 | 0.186 | -2.17 | 27 | 0.039 | .039 | | 23.58 | 0.017 | | |
| Actual | T-Test | Value 2.0 | 05 | | | | | | | |



Table 4.15 summarizes the responses of "Students Turning in More Homework." There were 20 males in Group 1 with a mean of 2.4000 and 9 females in Group 2 with a mean of 3.6667. This table shows us that females rate "Turning in More Homework" significantly more important than males.

Table 4.15 Summary of "Students Turning in More Homework," Compared by Gender

| Variable | | Number of Cases | Mean | | Standard Deviation | | Standard Error | | |
|---|-----------------|--------------------|-----------------------|----------------|-----------------------|------------|-----------------------|-----------------|--|
| Skill | Importa | ance - Tur | n in Homewor | ·k | | | | | |
| Group Group | | 20 9 | 2.4000 3.6667 | 1.231 1.118 | | | 0.275 0.373 | | |
| Pooled Variance Estimate * Separate Variance Estimate | | | | | | | | | |
| F Value | 2-Tail Prob. | - - | Degrees of Freedom | | | T Value | Degrees of Freedom | 2-Tail Prob. | |
| 1.21 | 0.817 | -2.63 | 27 | 0.014 | | -2.73 | 16.98 | 0.014 | |
| Actual | T-Test | : Value 2 | .05 | | | | | | |

Table 4.16 summarizes the responses of "Students Responding to Praise." There are 23 males in Group 1 with a mean of 3.7826 and 9 females with a mean of 4.889 in Group 2. This table shows us that females rate "Student Response to Praise" significantly more important than males.

<u>Table 4.16</u> Summary of "Students Responding to Praise," Compared by Gender

| Variable | | Number of Cases | | Mean | | | Stand Devia | | • | Standard Error | |
|---|-----------------|--------------------|------------|------|--------------------------|----|----------------|---|------------|-----------------------|-----------------|
| Skill Importance - Response to Praise | | | | | | | | | | | |
| Group 1 Group 2 | | 23 9 | | | 3.7826 4.8889 | | 1.043 0.333 | | _ | .217 .111 | |
| Pooled Variance Estimate * Separate Variance Estimate | | | | | | | | | <u> </u> | | |
| | 2-Tail Prob. | * | T Value | | rees of ed o m | | Tail | * | T Value | Degrees of Freedom | 2-Tail Prob. |
| 2.78 | 0.002 | | -3.09 | | 30 | 0. | 004 | | 04.53 | 29.47 | 0.0000 |

Actual T-Test Value 2.04



Table 4.17 summarizes the responses of "Student Responds to Rewards."

There are 23 males in Group i with a mean of 3.4783 and 9 females in

Group 2 with a mean of 4.7778. This table shows us that females rate

"Student Responds to Rewards" significantly more important than males.

Table 4.17 Summary of "Student Responds to Rewards," Compared by Gender

| Variable | Number of Cases | Mean | | Standard Deviation | | Standard Error | |
|------------------------|--------------------|------------------|--------------|-----------------------|--------|-----------------------|---------------------------------------|
| Skill Import | ance - Re | sponse to Re | wards | | | | |
| Group 1 Group 2 | 23 9 | 3.4783 4.7778 | 1.12 0.44 | - | | 0.234 0.147 | |
| Pooled Varia | nce Estima | ate * Separa | te Varia | nce | Estima | te | · · · · · · · · · · · · · · · · · · · |
| | | | | | | | |
| F 2-Tai Value Prob. | l T * Value | | | | | Degrees of Freedom | |

Table 4.18 summarizes the responses of "Respond to Success."

There are 23 males in Group 1 with a mean of 4.1739 and 9 females in Group 2 with a mean of 4.8889. This talbe shows us that females rate "Respond to Success" significantly more important than males.

Summary of "Respond to Success," <u>Table 4.18</u> Compared by Gender Variable Number Standard Mean Standard of Cases Deviation Error Skill Importance - Respond to Success Group 1 23 4.1739 0.937 0.195 Group 2 9 4.8889 0.333 0.111 Pooled Variance Estimate * Separate Variance Estimate F 2-Tail T Degrees 2-Tail T Degrees 2-Tail Value Prob. * Value of Freedom Prob. Value of Freedom Prob. 7.90 0.005 -2.2230 0.034 -3.18 29.92 0.003 Actual T-Test Value 2.04



T-Test Tables

Tables 4.19 and 4.20 on the following pages summarize responses by use of the T-Test in a pooled variance which is compared by years of experience. A rating scale of 1 to 5 was used with 1 being low and 5 being the highest possible score.

Table 4.19 summarizes the responses of "Students Turning in more Homework." Group are respondents with 1-5 years of experience and Group 2 are respondents with 6-10 years of experience. There are 7 in Group with a mean of 3.4286 and 6 in Group 2 with a mean of 2.0000. This table shows us that respondents with 1-5 years of experience rate "Turning in Homework" significantly more important than respondents with 6-10 years of experience.

Table 4.19 Summary of "Students Turning in More Homework," Compared by Years of Experience

| Variab | | Number of Cases | Mean | Standar Deviati | - | | andard | |
|----------------|----------|--------------------|-----------------------|--------------------|-----|---------|-----------------------|-----------------|
| Skill | Importar | ice - Tur | n in Homewor | k | | * | | ******* |
| Group Group | | 7 6 | 3.4286 2.0000 | | | | | |
| Pooled | Varianc | e Estima | ite * Separ | ate Vari | anc | e Estim | ate | |
| F Value | | T * Value | Degrees of Fraedom | | | | Degrees of Freedom | 2-Tail Prob. |
| 2.02 | 0.456 | 2.30 | 11 | 0.042 | | 2.37 | 10.66 | 0.038 |
| Actuat | 1 T-Test | Value | 2.20 | | | | | ··· |



Table 4.20 summarizes the responses of "Check for Understanding by Using Signals." Group 1 consists of 7 respondents with 6 - 10 years of experience and Group 2 consists of 17 respondents with 11+ year of experience. Group 1 has a mean of 2.1429, and Group 2 has a mean of 3.5294. This table shows the respondents with 11+ years of experience rate "Checking for Understanding by Using Signals" significantly more important that respondents with 6 - 10 years of experience.

Table 4.20 Summary of "Check for the Understanding by Using Signals,"

Compared by Years of Experience

| Variable | Number of Cases | Mean | Standard Deviation | Standard Error | | | |
|---|--------------------------|------------------|-----------------------|-----------------------|-----------------|--|--|
| Skill Importance - Check Understanding | | | | | | | |
| Group 1 Group 2 | 7 17 | 2.1429 3.5294 | 0.900 1.328 | 0.340 0.322 | | | |
| Pooled Variance Estimate * Separate Variance Estimate | | | | | | | |
| | l T Degre *Value of F | ees 2-Ta | ail * T b. * Value | Degrees of Freedom | 2-Tail Prob. | | |
| 2.18 0.343 | -2.52 22 | 2 0.02 | 20 -2.96 | 16.59 | 0.009 | | |
| Actual T-Test | Value 2.07 | | - | | | | |



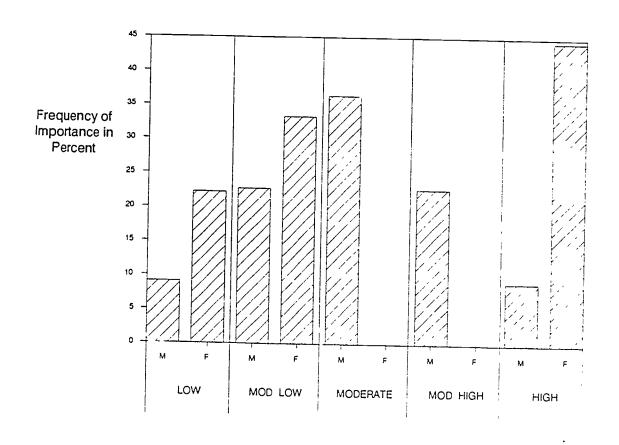
Figures 4.01 to 4.06

The following pages contain frequency graphs of the statements that showed a significant difference according to Chi-Square procedures. The differences are the percentages of the value of importance of each statement as compared by gender. A rating scale of low, moderate low, moderate, moderate high, and high is used as the value label.



Figure 4.01 summarizes the importance of "Checking for Understanding" as compared by male and female. The data suggest that females check for understanding more than males.

Figure 4.01 Summary of "Checking for Understanding" Compared by Gender



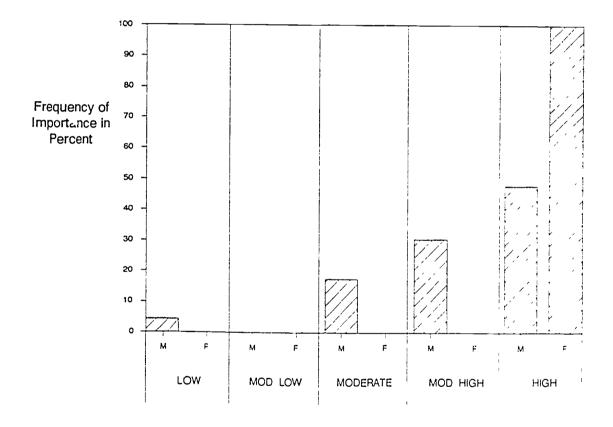
Value Label & Gender Label



Figure 4.02 summarizes the importance of using "Praise in the Classroom" as compared by male and female. The data suggest that females are more likely to use "Praise in the Classroom" than males.

Figure 4.02 Summary of "Praise in the Class Room"

Compared by Gender

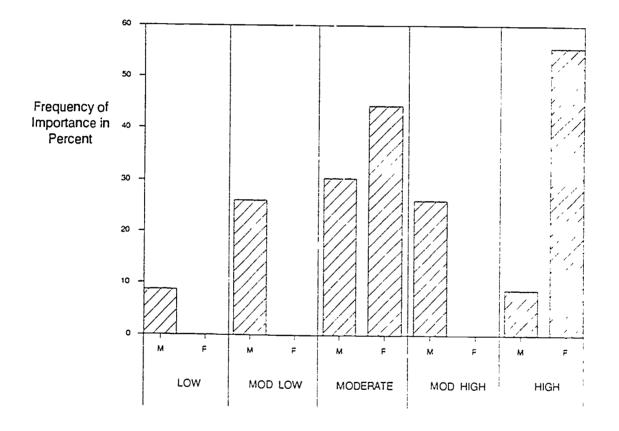


Value Label & Gender Label



Figure 4.03 summarizes the importance of "Ignoring Showoffs" as compared by male and female. The data suggest that females are more likely to "Ignore Showoffs" than males.

Figure 4.03 Summary of "Ignoring Showoffs" Compared by Gender

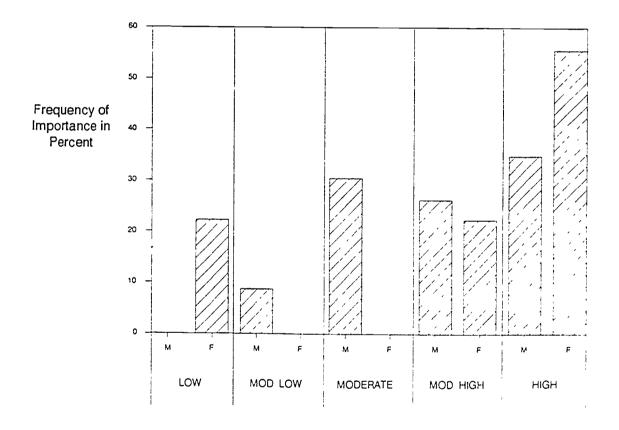


Value Label & Gender Label



Figure 4.04 summarizes the importance of "Providing a Peer Tutor" as compared by male and female. The data suggest that temales are more likely to "Provide Peer Tutors" than males.

<u>Figure 4.04</u> Summary of "Providing Peer Tutor"
Compared by Gender



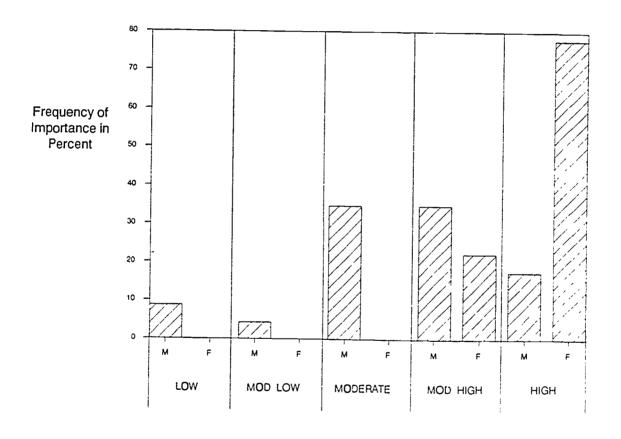
Value Label & Gender Label



Figure 4.05 summarizes the importance of "Student Response to Rewards" as compared by male and female. The data suggest that females are more likely to value "Student Response to Rewards" than males.

Figure 4.05 Summary of "Student Response to Rewards"

Compared by Gender



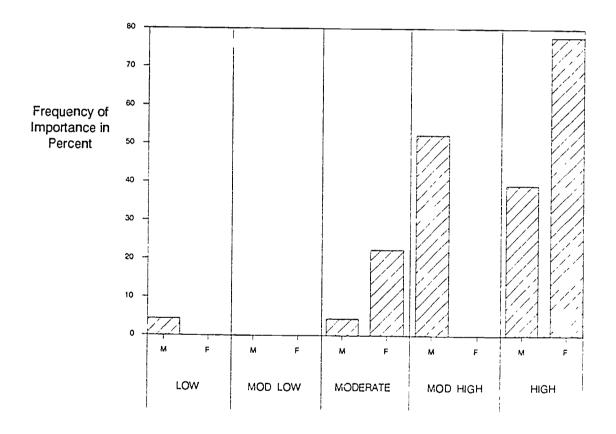
Value Label & Gender Label



Figure 4.06 summarizes the importance of "Students Retaining
Information" as compared by male and female. The data suggest that
females are more likely to value "Students Retaining Information" than males.

Figure 4.06 Summary of "Students Retaining Information"

Compared by Gender



Value Label & Gender Label



Figure 4.07

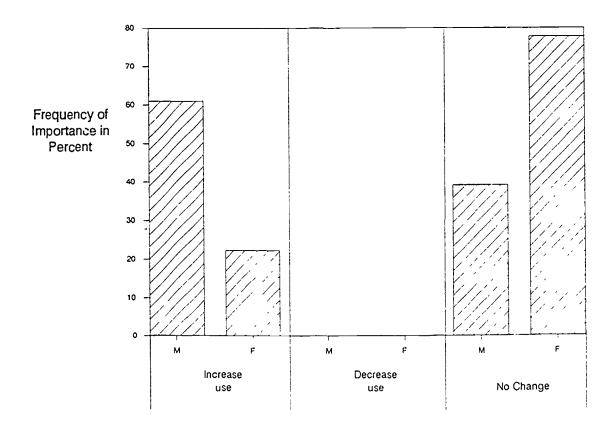
The following page contains frequency graphs of the use of the given statements that showed a significant difference according to Chi-Square procedures. The differences are the frequency in which the use of the said statement increased, decreased, or had no apparent change because of ITIP training. Gender has also been used as a comparison.



Figure 4.07 summarizes the increase, decrease, or no change in the "Use of Set Induction" as compared by male and female. The data suggest that males are more likely to have an increase in use of "Set Induction" than females.

Figure 4.07

Summary of "Set Induction." Compared by Gender



Use of Label & Gender Label



Figure 4.08

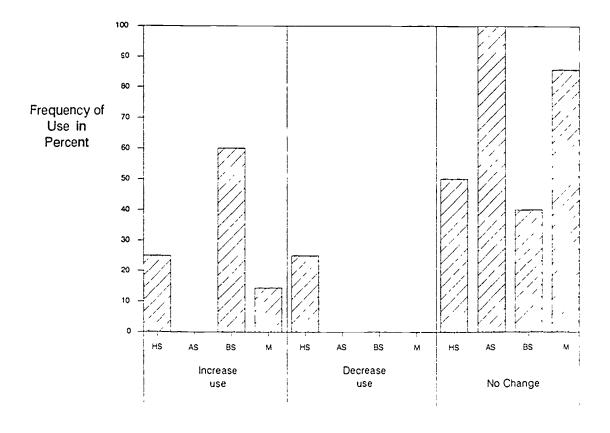
The following page contains a frequency graph of the statements that showed a significant difference according to Chi-Square procedures. The differences are the frequency in which the use of the said statement increased, decreased, or had no apparent change because of ITIP training. This graph is compared by degrees held.



Figure 4.08 summarizes the frequency of use of "Students Spend

Quality Time on Task" compared to degree held. The data suggest that
there was a 25% decrease in the use of "Students Spend Quality Time on Task."

Figure 4.08 Summary of "Students Spend Quality Time on Task"
As compared to Degree



Use of Label & Degree Label

HS = High School Diploma

AS = Associates Degree

BS = Bachelors Degree



Figures 4.09 to 4.16

The following pages contain frequency graphs of the statements that showed a significant difference according to Chi-Square procedures. The difference is the percent of the value of importance of each statement as compared by the degrees held. A rating scale of low, moderate low, moderate, moderate high, and high is used as the value label.



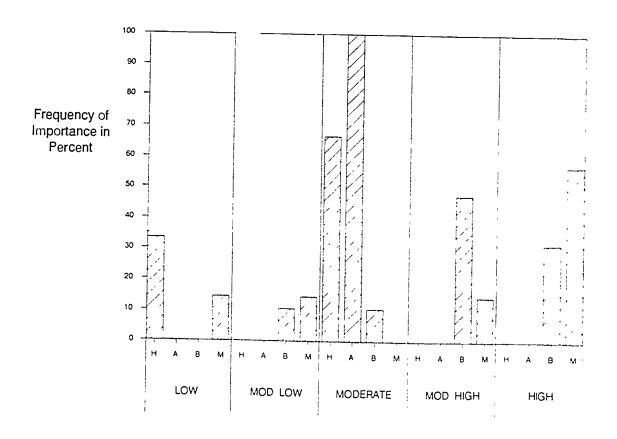
Figure 4.09 summarizes the importance of "Selecting Students to

Answer Systematically" as compared by the degree held. The data suggest
that respondents with higher degrees rate "Selecting Student to Answer

Systematically as more important than respondents with lower degrees.

Figure 4.09 Summary of "Selecting Students to Answer Systematically"

Compared by Degree held



Value Label & Degree Label

H = High School Diploma

A = Associates Degree

B = Bachelors Degree

M = Masters Degree

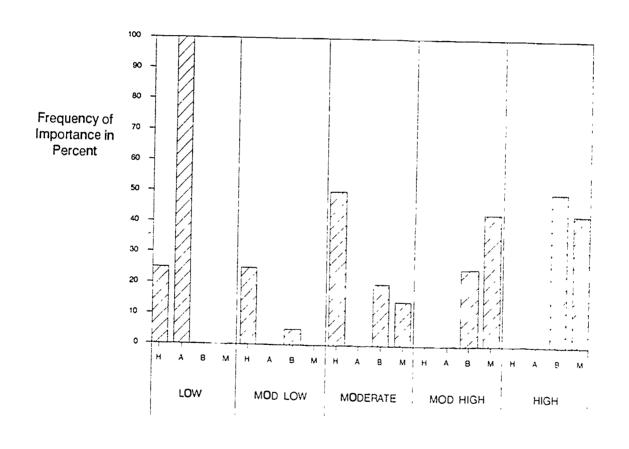


53

Figure 4.10 summarizes the importance of "Providing Peer Tutoring" as compared by the degree held. The data suggest that respondents with higher degrees rate "Providing Peer Tutor" as more important than respondents with lower degrees.

Figure 4.10 Summary of "Providing Peer Tutoring"

Compared by Degree held



Value Label & Degree Label

H = High School Diploma

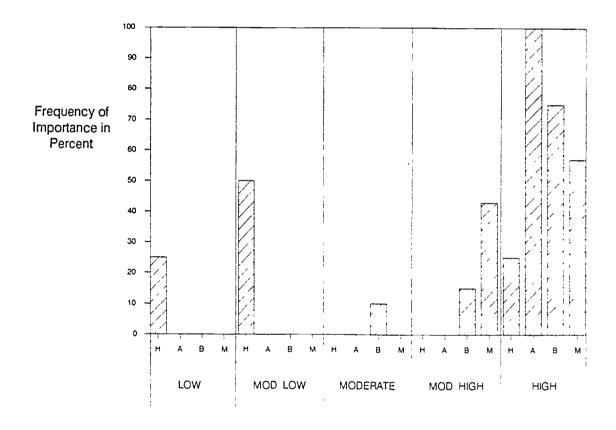
A = Associates Degree

B = Bachelors Degree



Figure 4.11 summarizes the importance of Using "Examples" as compared with the degree held. The data suggest that respondents with higher degrees rated "Using Examples" more important than respondents with lower degrees.

Figure 4.11 Summary of Importance of Using "Examples" Compared by Degree held



Value Label & Degree Label

H = High School Diploma

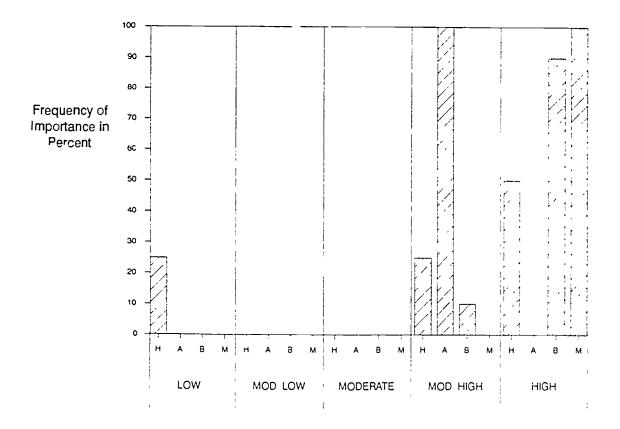
A = Associates Degree

B = Bachelors Degree



Figure 4.12 summarizes the importance of "Making Lessons Meaningful" as compared by the degree held. The data suggest that 25% of the respondents felt "Making Lessons Meaningful" was unimportant.

Figure 4.12 Summary of Importance of " Making Lessons Meaningful" Compared by Degree held



Value Label & Degree Label

H = High School Diploma

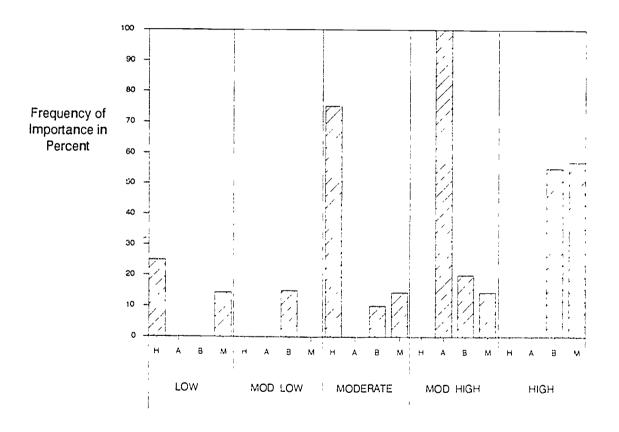
A = Associates Degree

B = Bachelors Degree



Figure 4.13 summarizes the importance of "Writing Directions on the Board" as compared with the degree held. The data suggest that respondents with higher degrees rated "Writing Directions on the Board" as more important than respondents with lower degrees.

Figure 4.13 Summary of Importance of "Writing Lessons on the Board" Compared by Degree held



Value Label & Degree Label

H = High School Diploma

A = Associates Degree

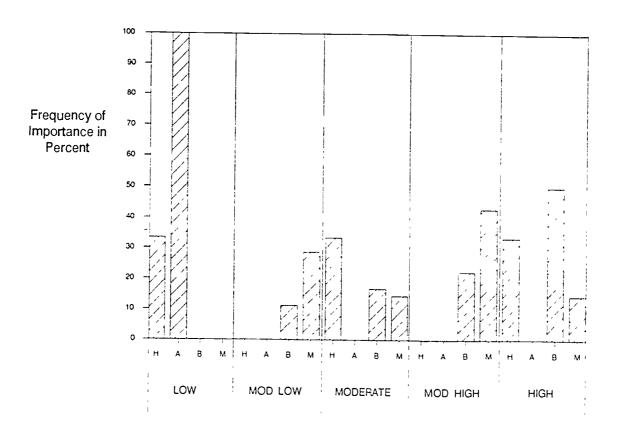
B = Bachelors Degree



Figure 4.14 summarizes the importance of "Low Achievers Answer Question" as compared with the degree held. The data suggest that respondents with higher degrees rated "Low Achievers Answer Questions" as more important than respondents with lower degrees.

Figure 4.14 Summary of Importance of "Low Achievers Answering Questions"

Compared by Degree held



Value Label & Degree Label

H = High School Diploma

A = Associates Degree

B = Bachelors Degree



Figure 4.15 summarizes the importance of "Student Translating

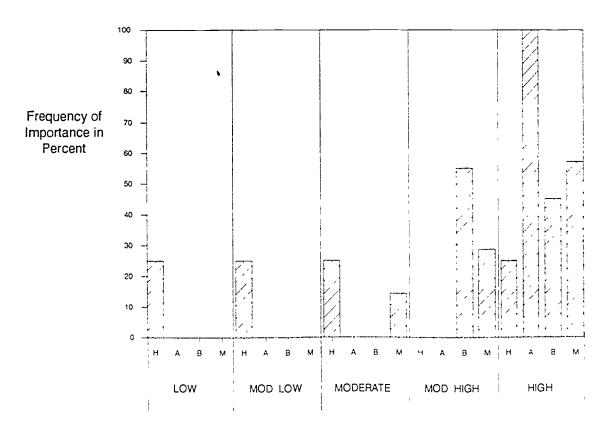
Concepts Into Own Words" as compared to the degree held. The data

suggest that respondents with higher degrees rated "Student Translating

Concepts Into Own Words" more important than respondents with lower degrees.

Figure 4.15 Summary of Importance of "Student Translating Concepts into Own Words"

Compared by Degree held



Value Label & Degree Label

H = High School Diploma

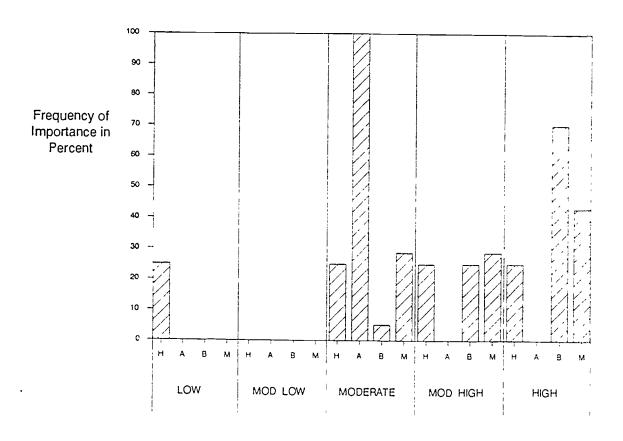
A = Associates Degree

B = Bachelors Degree



Figure 4.16 summarizes the importance of "Scudent Spending Quality Time on Task" as compared with the degree held. The data suggest that respondents with higher degrees rated "Spending Quality Time on Task" more important than those with lower degrees.

Figure 4.16 Summary of Importance of "Student Spending Quality
Time on Task"
Compared by Degree held



Value Label & Degree Label

H = High School Diploma

A = Associates Degree

B = Bachelors Degree



Figure 4.17

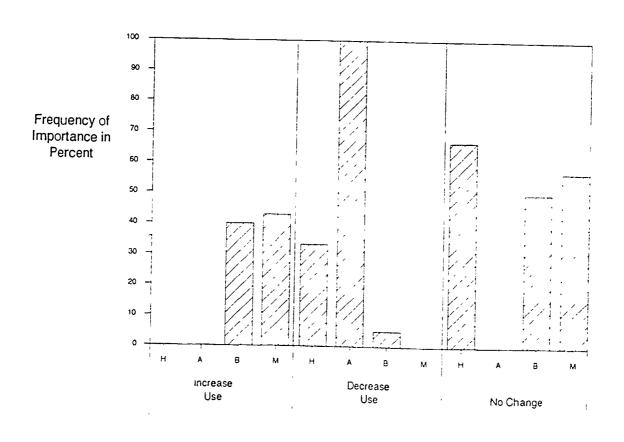
The following page contains a frequency graph of the use of the given statements that showed a significant difference according to Chi-Square procedures. The differences are the frequency in which the use of the said statement increased, decreased, or had no apparent change after ITIP training. These graphs are also compared by the degrees held.



Figure 4.17 summarizes the use of "Selecting Students to Answer in a Systematic Way" as compared by the degree held. The data suggest that there is a decrease in use of "Selecting Students to Answer in a Systematic Way" by respondents holding lower degrees.

Figure 4.17 Summary of "Selecting Students to Answer in a Systematic Way"

Compared by Degree held



Value Label & Degree Label

H = High School Diploma

A = Associates Degree

B = Bachelors Degree



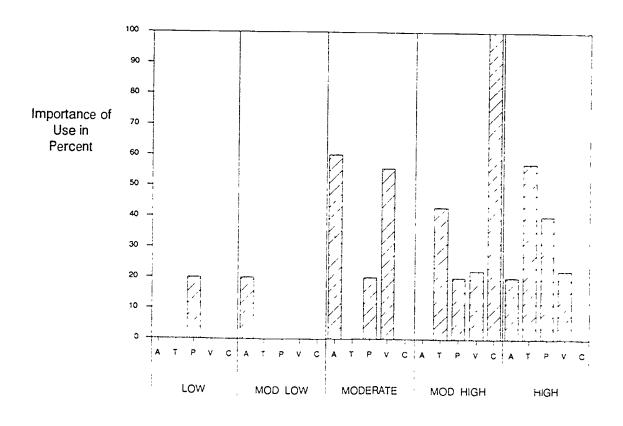
Figures 4.18 and 4.19

The following pages contain frequency graphs of the statements that showed a significant difference according to Chi-Square procedures. The differences are the percentages of the value of importance of each statement as compared by the certificate held. A rating scale of low, moderate low, moderate, moderate high, and high is used as the value label.



Figure 4.18 summarizes the importance of "Checking Difficulty Level" as compared with the certificate held. The data suggest that respondents with higher certificates rated "Checking Difficulty Level" higher than respondents with lower certificates.

Figure 4.18 Summary of Importance of "Checking Difficulty Level"
As Compared by Certificate held



Value Label & Certificate Label

A = Annual Authorization

T = Temporary Vocational Authorization

P = Secondary Provisional Certificate

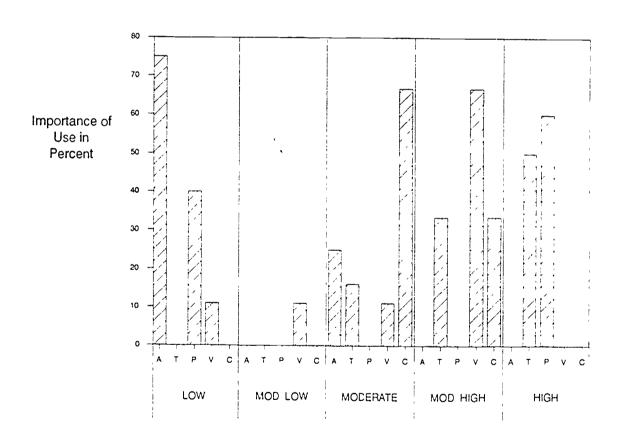
V = Vocational Authorization

C = Secondary Continuing Certificate



Figure 4.19 summarizes the importance of "Have Better Grades on Homework" as compared with the certificate held. The data suggest that the respondents with lower certificates responded lower as to the importance of "Having Better Grades."

Figure 4.19 Summary of "Have Better Grades on Homework"
As Compared by Certificate held



Value Label & Certificate Label

A = Annual Authorization

T = Temporary Vocational Authorization

P = Secondary Provisional Certificate

V = Vocational Authorization

C = Secondary Continuing Certificate



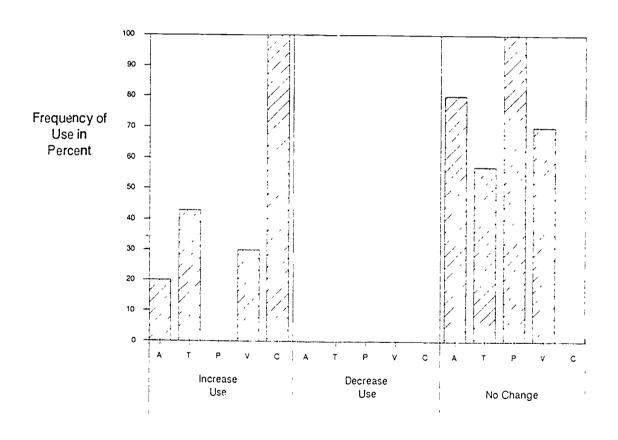
Figures 4.20 to 4.22

The following pages contain frequency graphs of the statements that showed a significant difference according to Chi-Square procedures. These differences are the percent of the use showing an increase or decrease in use or no change because of ITIP training. Each statement is also compared by the type of teaching certificate held.



Figure 4.20 summarizes the use of "Use of Praise in the Classroom" as compared with the certificate held. The data suggest that the largest increase in "Use of Praise" was by those respondents with a Secondary Continuing Certificate.

Figure 4.20 Summary of "Use of Praise in the Classroom"
As Compared by Certificate held



Value Label & Certificate Label

A = Annual Authorization

T = Temporary Vocational Authorization

P = Secondary Provisional Certificate

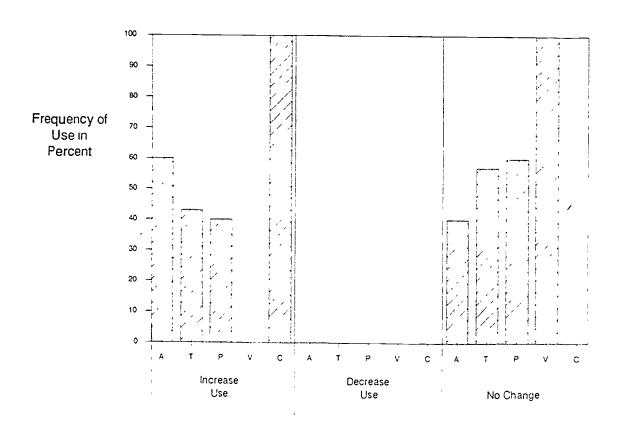
V = Vocational Authorization

C = Secondary Continuing Certificate



Figure 4.21 summarizes the use of "Make Lessons Meaningful" as compared with the certificate held. The data suggest that the largest increase in "Making Lessons Meaningful" was by those with a Secondary Continuing Certificate.

Figure 4.21 Summary of "Making Lessons Meaningful"
As Compared by Certificate held



Value Label & Certificate Label

A = Annual Authorization

T = Temporary Vocational Authorization

P = Secondary Provisional Certificate

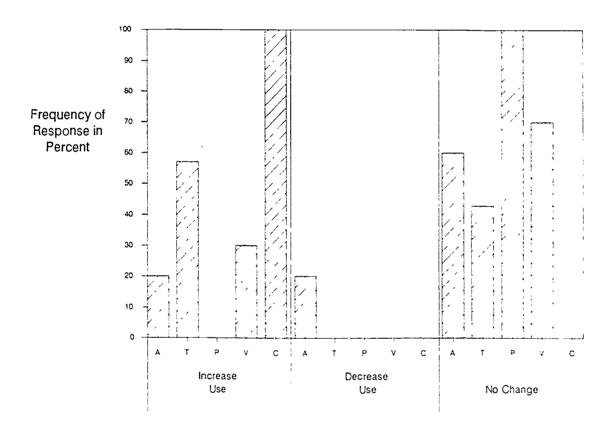
V = Vocational Authorization

C= Secondary Continuing Certificate



Figure 4.22 summarizes the use of "Responds to Praise" as compared with the certificate held. The data suggest that 20% of the respondents felt that students didn't respond to praise.

Figure 4.22 Summary of "Resonds to Praise" As Compared by Certificate held



Value Label & Certificate Label

A = Annual Authorization

T = Temporary Vocational Authorization

P = Secondary Provisional Certificate

V = Vocational Authorization

C = Secondary Continuing Certificate



Figure 4.23

The following page contains a frequency graph of the statements that showed a significant difference according to Chi-Square procedures.

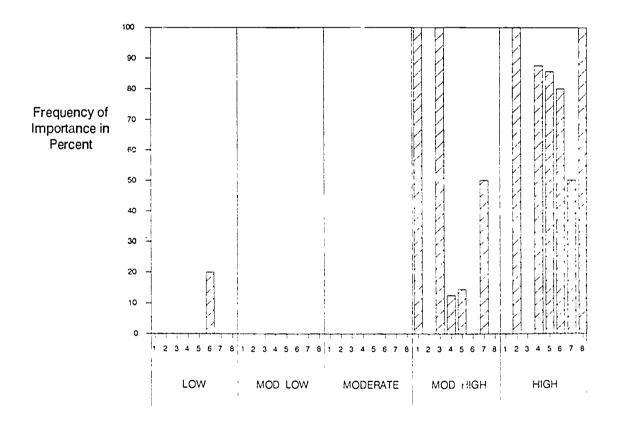
These differences are the percent of importance of each statement as rated low, moderate low, moderate, moderate high, or high. Each statement is also compared by age.



Figure 4.23 summarizes the importance of "Create an Environment for Success of Students" as compared with age of respondents. The data suggest that all but 20% of the respondents consider a successful environment from moderate high to high.

Figure 4.23 Summary of "Create an Environment for Succers of Students"

Compared with Age of Respondents



Value Label & Age Label

1 = 20 - 25 years of age

2 = 26 - 30 yrs

3 - 31 - 35 yrs

4 = 36 - 40 yrs

5 = 41 - 45 yrs

6 = 46 - 50 yrs

7 = 51 - 55 yrs

8 = 56 - 60 yrs



Figures 4.24 to 4.25

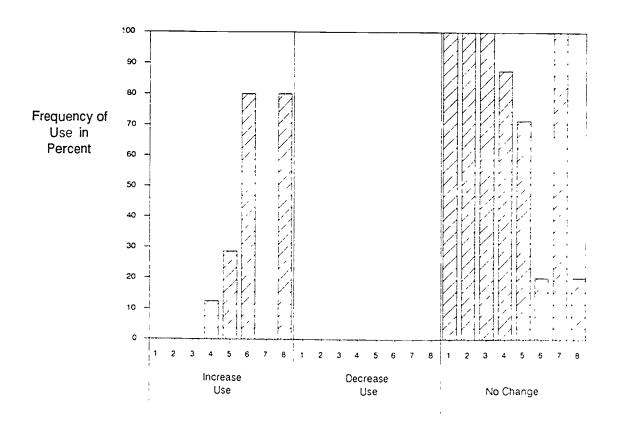
The following pages contain frequency graphs of the statements that showed a significant difference according to Chi-Square procedures. The differences are the percent of the use showing the increase or decrease in use or no change because of ITIP training. Each statement is also compared by age.



Figure 4.24 summarizes the use of "Move Close to Students Who Are Disruptive (Proximity)" as compared 1th age. The data suggest that the greatest increase in use was the ages from 46-50 and 56-60.

Figure 4.24 Summary of "Move Close to Student Who are Disruptive (Proximity)"

Compared with Age of Respondents



Value Label & Age Label

1 = 20 - 25 years of age

2 = 26 - 30 yrs

 $3 = 31 \cdot 35 \, yrs$

4 = 36 - 40 yrs

5 = 41 - 45 yrs

6 = 46 - 50 yrs

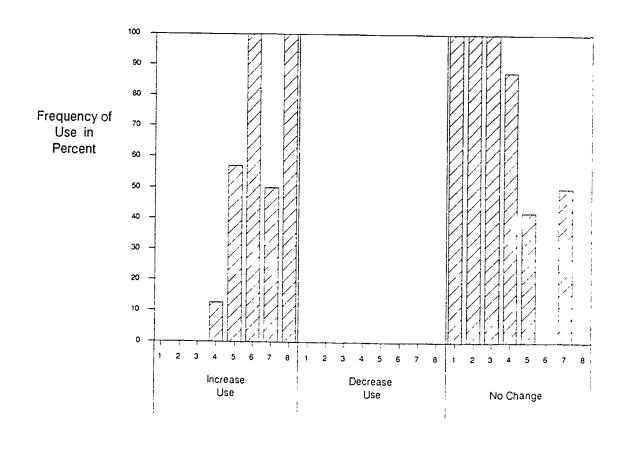
7 = 51 - 55 yrs

8 = 56 - 60 yrs



Figure 4.25 summarizes the use of "Providing Closure" as compared with age. The data suggest that the greatest increase of use is among those from 46-50 and 56-60.

Figure 4.25 Summary of the Use of "Providing Closure"
As Compared with Age of Respondents



Value Label & Age Label

 $1 = 20 \cdot 25$ years of age

2 = 26 - 30 yrs

c = 31 - 35 yrs

4 = 36 - 40 yrs

5 = 41 - 45 yrs

6 = 46 - 50 yrs

7 = 51 - 55 yrs

8 = 56 - 60 yrs



Summary of Analysis

The presentation of the data in Chapter IV follows a format of:

1) presentation and interpretation of the applicable date received via survey, 2) charts and comparisons, 3) frequency graphs, 4) summaries of T-Test, and 5) a summary section.

Survey Instrument

The survey instrument was developed by the author and reviewed by a panel of experts. The questionnaire contained demographic information and 44 training skills that were given values of importance and use of. The response rate of the survey was 46.3% which was adequate for analysis. There were no surveys returned by administrators, due to a concern that they apparently did not feel they could respond accurately to the instrument.



CHAPTER V

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Summary

The researcher's purpose of this study was to point out a positive or negative value of the usage and importance of the ITIP training so that school districts would know whether or not to offer more ITIP training to their teaching staff.

The basic research questions to be answered by this study were:

- 1. What classroom instructional skills were perceived to increase by teachers in the study?
- 2. Are there differences between teachers and administrators in their perceptions of teacher changes in instructional practices?
- 3. What changes do teachers see in student achievement as a result of using ITIP in the classroom?
- 4. Are there differences among demographic groups in teacher perceptions of student achievement and instructional practices?

For summary the data indicates that:

- What classroom instructional skills were perceived to increase by teachers in the study?
 - The results show some increase in skill uses in all areas. The increase was from 6.3% to 68.8% among the respondents.
 - The majority of the respondents reported "no change" in the use of the following practices:
 - 1. Promote active participation of students
 - 2. Monitor the learning process
 - 3. Adjust your teaching to the pace of the students
 - 4. Check for understanding by using signals
 - 5. Involve most of the students most of the time
 - 6. Use of praise in the classroom
 - 7. Give immediate knowledge of results
 - 8. Check for level of difficulty



- 9. Lower level of concern
- 10. Lower level of concern for test
- 11. Do a task analysis for each objective
- 12. Move close to students who are disruptive (Proximity)
- 13. Use Bloomt axonomy
- 14. Improvement of cime on task
- 15. Teach to an objective
- 16. Ignore students who are showing off
- 17. Select students to answer questions (in a systematic way)
- 18. Provide for peer tutoring
- 19. Create a positive self-concept
- 20. Use extrinsic rewards
- 21. Say good morning and/or good bye to students
- 22. Provide closure
- 23. Provide short practice for past learning
- 24. Use lots of examples
- 25. Make lessons meaningful
- 26. Write directions on the board
- The majority of respondents reported an "increase" in the following practices:
 - 1. Use wait time
 - 2. Create a level of concern
 - 3. Create an environment of success of the students
- Eighteen and eight tenths percent of the respondents reported a "decrease" in the factor "ignore students who show off."
- 2. Are there differences between teachers and administrators in their perceptions of teacher changes in instruction practices?
 - The results show only l respondent in the administrator category, therefore, no comparisons could be drawn.
- 3. What changes do teachers use in student achievement as a result of using ITIP in the classroom?
 - The results show some increase in student achievement in all areas ranging from 17.2% to 60.0%.
 - The majority of the respondents reported an "increase" in the following practices:
 - 1. Have better answers to questions
 - 2. Responds to success



- The majority of the respondents reported "no change" in the use of the following student achievements:
 - l. Have better grades on homework
 - 2. Turn in more homework
 - 3. Achieve higher test scores
 - 4. Responds to signals
 - 5. Pay attention longer
 - 6. Perform task quicker
 - 7. Of low achievement answer questions
 - 8. Retain information from one assignment or quiz to another $% \left(1\right) =\left(1\right) +\left(1\right$
 - 9. Respond to praise
 - 10. Responds to reward
 - 11. Spends quality time on tasks
- 4. Are there differences among demographic groups in teacher perceptions of student achievement and instructional practices?
 - The comparisons were made between gender, by years of experience, by degree held, by certificate held, and by age.
 - The significant differences are as follows:

| Group Compared | Number of Differences Within Groups |
|---------------------|--|
| Gender | 15 |
| Years of Experience | 2 |
| Degree held | 10 |
| Cert_ficate held | 5 |
| Age | 3 |

In summary, it would appear that there are increases in the use of each training skill and each student achievement. Thus, any amount of increase to help students achieve success would certainly be rated as positive. Another positive suggestion of the data is that the higher the degree and the certificate held, the higher the rating and use of some of the skills such as: selecting students to answer systematically, providing peer tutor, using examples, making lessons meaningful, writing directions on the board, low achievers answer questions, students



translate concepts into own words, students spend quality time on task, checking for difficulty level, have better grades on homework, use praise in the classroom, and responds to praise.

Further factors of significant differences that the data suggest is that females are more likely to check for understanding. use praise in the classroom, ignore showoffs, provide peer tutors, value student response to rewards, value students retaining information, use extrinsic rewards, value having better grades on homework, value turning in more homework, value student response to praise, value student response to rewards, and value student response to success more than males.

The bottom line is that ITIP is a valid method of increasing student achievement. This study did suggest that the respondents are utilizing ITIP practices in the classroom to some degree.

Conclusions

- !. The fact that several of the factors showed a decrease in use among some of the respondents would suggest that additional follow-up training might be beneficial.
- 2. The inability of administrators to complete the instrument suggest that administration probably need to spend more time in the classroom observing teaching practices and student learning activities.
- 3. The primary conclusion overall is that ITIP training appeared to have a beneficial effect on teaching practices among the respondents.

Recommendations

1. This study should be replicated with other groups of teachers to validate the results of this study.



- 2. ITIP training should be expanded to other schools.
- 3. Further research should be carried cut which would relate measures of student achievement $t \cap the$ variables identified in this study.



APPENDICES



RESEARCH QUESTIONNAIRE

DIRECTIONS: On questions 1 to 7 please circle the appropriate answer. If you choose "other", please clarify.

| 1. | Present job title: (select only one) | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|--|
| | Vocational Teacher Special Education Teacher Administrator Counselor Other | | | | | | | | | |
| 2. | Which Gender? | | | | | | | | | |
| | Male Female | | | | | | | | | |
| 3. | How many years have you taught vocational education classes? Or years of counseling or administration? | | | | | | | | | |
| | 1 to 5 years 6 to 10 years 11 or more years | | | | | | | | | |
| 4. | Ethnic background (optional) | | | | | | | | | |
| | Caucasion Black Hispanic Asian Other | | | | | | | | | |
| 5. | What type of degree do you hold (circle highest level) | | | | | | | | | |
| | High School Diploma Associate Degree B.S. Degree Masters Other | | | | | | | | | |
| 6. | Which teaching cerrificate do you now hold? | | | | | | | | | |
| | Annual Authorization Temporary Vocational Authorization Secondary Provisional Certificate Full Vocational Authorization Secondary Continuing Certificate | | | | | | | | | |
| 7. | What is your age range? | | | | | | | | | |
| | 1. 20 - 25 4. 36 - 40 7. 51 - 55 2. 26 - 30 5. 41 - 45 8. 56 - 60 3. 31 - 35 6. 46 - 50 9. 61 - 65 | | | | | | | | | |



TRAINING SKILLS

DIRECTIONS:

Please identify the importance of each skill by rating them on the left by circling the appropriate number. On the right please indicate whether you increased, decreased, or had no change because of your ITIP training by circling the appropriate number. Administrators and counselors please respond according to how you perceive that these skills are being used in the vocational classroom of your building by circling the appropriate number.

| | Importance | of | | | | Use of | |
|-----|------------|-------------|-----|---|----------|----------|---------------------|
| Low | Moderate | <u>High</u> | | | Increase | Decrease | No <u>Change</u> |
| 1 | 2 3 4 | 5 | 8. | Promote active participation of students | I | D | NC |
| 1 | 2 3 4 | 5 | 9. | Monitor the learning process | 1 | D | NC |
| 1 | 2 3 4 | 5 | 10. | Adjust your teaching to the pace of the students | 1 | D | NC |
| 1 | 2 3 4 | 5 | 11. | Check for understanding by using signals | I | D | NC |
| 1 | 2 3 4 | 5 | 12. | Use of wait time | I | D | NC |
| 1 | 2 3 4 | 5 | 13. | Involve most of the students most of the time | I | D | NC |
| 1 | 2 3 4 | 5 | 14. | Use of praise in the classroom | I | D | NC |
| 1 | 2 3 4 | 5 | 15. | Give immediate knowledge of results | I | D | NC |
| 1 | 2 3 4 | 5 | 16. | Create a level of concern | I | D | NC |
| 1 | 2 3 4 | 5 | 17. | Check for level of difficulty | I | D | NC |
| 1 | 2 3 4 | 5 | 18. | Lower the level of concern | I | D | NC |
| 1 | 2 3 4 | 5 | 19. | Lower the leve! of concern for test | I | D | NC |
| 1 | 2 3 4 | 5 | 20. | Do a task analysis for each objective | I | D | NC |
| 1 | 2 3 4 | 5 | 21. | Move close to students who are disruptive (Proximity) | I | D | NC |
| 1 | 2 3 4 | 5 | 22. | Use Bloom Taxonomy | I | D | NC |
| 1 | 2 3 4 | 5 | 23. | Improvement of time on task | I | D | NC |



| | Importance | : | | | | Use of | |
|------|--------------|---|-----|---|---|--------|-----|
| 1 | 2 3 4 | 5 | 24. | Teach to an objective | I | D | NC |
| 1 | 2 3 4 | 5 | 25. | Ignore students who are showing off | I | D | NC |
| 1 | 2 3 4 | 5 | 26. | Select students to answer questions (in a systematic way) | I | D | NC |
| 1 | 2 3 4 | 5 | 27. | Provide for peer tutoring | I | D | NC |
| 1 | 2 3 4 | 5 | 28. | Create an environment for success of students | I | D | NC |
| 1 | 2 3 4 | 5 | 29. | Create a positive self- concept | I | D | пC |
| 1 | 2 3 4 | 5 | 30. | Use extrinsic rewards | I | D | NC. |
| ¥. | 2 3 4 | | 31. | Use "set" induction to prepare students for learning | I | D | NC |
| 1 | 2 3 4 | 5 | 32. | Say good morning and/or good bye to students | I | D | NC |
| 1 | 2 3 4 | 5 | 33. | Provide closure | I | D | NC |
| 1 | 2 3 4 | 5 | 34. | Provide short practice for past learning | I | D | NC |
| 1 | 2 3 4 | 5 | 35. | Use lots of examples | I | D | NC |
| 1 | 2 3 4 | 5 | 3ô. | Make lessons meaningful | I | D | NC |
| 1 | 2 3 4 | 5 | 37. | Write directions on the board | I | D | NC |
| | | | | STUDENT ACHIEVEMENT | | | |
| Do t | he students: | | | | | | |
| 1 | 2 3 4 | 5 | 38. | Have better grades on homework | I | D | NC |
| 1 | 2 3 4 | 5 | 39. | Turn in more homework | I | D | NC |
| 1 | 2 3 4 | 5 | 40. | Achieve higher test scores | I | D | NC |
| 1 | 2 3 4 | 5 | 41. | Respond to signals | I | D | NC |
| 1 | 2 3 4 | 5 | 42. | Have better answers to oral questions | I | D | NC |
| ŧ | 2 3 4 | 5 | 43. | Pay attention longer | I | D | NC |
| 1 | 2 3 4 | 5 | 44. | Perform tasks quicker | I | D | NC |
| 1 | 2 3 4 | 5 | 45. | Of low achievement answer questions | I | D | NC |



| | Importance | | | | | Use of | |
|---|------------|---|-----|---|---|--------|----|
| 1 | 2 3 4 | 5 | 46. | Translate concepts into their own words | I | D | NC |
| 1 | 2 3 4 | 5 | 47. | Retain information from one assignment or quiz to another | I | D | NC |
| 1 | 2 3 4 | 5 | 48. | Responds to praise | I | D | NC |
| 1 | 2 3 4 | 5 | 49. | Responds to rewards | I | D | NC |
| 1 | 2 3 4 | 5 | 50. | Responds to success | I | D | NC |
| 1 | 2 3 4 | 5 | 51. | Spends quality time on tasks | Ī | D | NC |





BIG RAPIDS PUBLIC SCHOOLS

500 N. Warren Big Rapids, Michigan 49307 (616) 796-2627

SUPERINTENDENT - John B Jeffrey, Ed D

November 23, 1988

Mrs. Jane Torry 18020 McKinley Road Big Rapids, MI 49307

Dear Mrs. Torry:

Because you have completed the ITIP training, I am asking for your help in researching the value of this training. Wou'd you please take a few minutes and fill out the enclosed questionnaire and return it in the enclosed postage paid envelope.

Thank-you for your valued input. All replies will be kept confidential. If you are interested in the results, please send me a self-addressed, stamped envelope and I will mail the results to you when they are available.

Please mail this form back no later than December 12, 1988. We hope to tabulate the results by January 1, 1989.

Thank-you very much for your time and assistance.

/11/11/12

Sincerely,

∫ohn B. Jeffrey Superintendent

Big Rapids Public Schools



November 1, 1938

Dear Mr. Mieras, Vocational Director,

As one of the requirements for completing a Masters Degree or Science in Occupational Education at Ferris State University, I must conduct a research study for my Master's Thesis. With your permission and help, I would like to send out a question-naire to all staff, counselors, and administrators of Kent Skills Center, as well as, College Avenue Skills Center.

This survey deel with the perceived value of the ITIP training that was given at Kent Skills Center. The goal of this survey is to determine differences between perceived value of ITIP relative to teachers and administrators, as well as, to determine if there are any perceived differences based on demographic characteristics of the teachers.

Hr. Hieras, if you are interested in the results of this research, just let me know, and I will see to it that you receive a copy.

Thank-you for taking time for me,

Jane Torry



BIBLIOGRAPHY

Campbell, Form and Style, 6th ed.

Leggett/Mead/Charvat, Prentice-Hall Handbook for Writers, 8th ed. (1951 Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1981), p. 445-450.

McMillian, James H., Sally Schumacher, Research in Education, (Boston, Toronto: Little, Brown and Company).

Websters New Collegiate Dictionary, s.v. "Initiate."

Websters New Collegiate Dictionary, s.v. "Questionnaire."

Websters New Collegiate Dictionary, s.v. "Upholstery."



REFERENCES

Bartell, Carol A.; Willis, David B., American and Japanese Principals: A Comparative Analysis of Instructional Leadership, NASSP - Bulletin, vol. 1, n502, p. 18-27, November 1987.

Berliner, David: Casanova, Ursula, <u>Peer Tutoring</u>: A New Look at a <u>Popular Practice</u>, Instructor, Vol. 97, n5, p. 14-15, January 1988.

Cummings, Carol: Nelson, Cliff; Shaw, Dian, <u>Teaching Makes a Difference</u>, (Washington; Teaching Inc. 1980).

Kerweit, Nancy, <u>Time-on-Task:</u> <u>The Second Time Around</u>, NASSP - Bulletin, vol. 72, n505, p. 31-39, February 1988.

Lawton, Edward J., <u>True Middle Level Education--Keeping Student</u>

<u>Characteristics in Mind</u>, NASSP - Bulletin, vol. 71, n502, p. 115-120,

November 1987.

Ornstein, Aller C., Questioning: <u>The Essence of Good Teaching-Part II</u>, NASSP - Bulletin, vol. 72, n505, p. 72-80, February 1988.

Phillips, Kathleen J., Affective Aspects of Adult Literacy Programs:

A Look at the Types of Support Systems, Teacher Behavior and Materials

That Characterize Effective Literacy Programs, ED254758, p. 24-26, 1985.

Stallings, Jane; Krasavage, Eileen, <u>Peaks, Valleys, and Plateaus in Program Implementation: A Longitudinal Study of a Madeline Hunter Follow Through Project, (1985 Data)</u>, ED279398, p. 1-20, 1986.

Stallings, Jane, <u>Under What Conditions Do Children Thrive in the Madeline</u>
Hunter Model? A Report of Project Follow Through, Napa, California,
ED 265141; p. 1-25, 1985.

Wolfe, Michail P., <u>School Improvement; New Involvement for Teachers</u>, NASSP-Bulletin, vol. 72, n505, p. 23-30, February 1988.

Gresham, Oregon, Mount Hood Community College; Portland Community College, Oregon, Umpqua Community College, Roseburg, Oregon, Vocational Instructor Teaching Skills Project. Evaluating Your Teaching Effectiveness.

Resource Packet and Computer--Based Ed. Resource Packet, ED255725, p. 9-12, 1984.

Ohio State University, Columbus. National Center for Research in Vocational Education, Evaluate Your Instructional Effectiveness Second Edition.

Module D-6 of Category D--Instructional Evaluation. Professional Teacher Education Mc lule Series., ED 269616, p. 3-6, 1986.



South Carolina Governor's Office, Columbia, <u>The New Approach to Educational and Economic Excellence in South Carolina</u>, ED 258938, p. 6-7, 1984.

U.S. Department of Education, What Works, Research About Teaching and Learning, p. 32-38, William J. Bennett, Secretary, 1986.

