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ABSTRACT

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The Appalachia Educational Laboratory's (AEL) Experience-Based Career Education (EBCE) Program was a 3-year project designed to develop a community-based alternative career education program for high school seniors. Internal summative evaluation activities consisted of collecting and analyzing preliminary data, establishing necessary evaluation controls, finalizing a data analysis plan, developing or securing and administering instruments, and analyzing the data and reporting the findings. External summative evaluation activities were conducted by AEL and Educational Testing Service personnel to collect summative data on students, parents, / employers, and former students. Questionnaires and standardized tests were administered to all students (juniors and seniors in three. experimental groups and two control groups in 11 county high schools) to establish the effect of the AEL/EBCE Program on acalemic, attitudinal, and maturational variables, using the Student Information Questionnaire, the Comprehensive Tests of Basic Skills, the Career Maturity Inventory, and the Assessment of Student Attitudes. As a result of the formative and summative evaluation activities during fiscal year 1975 conclusions can be reached: (1) The program did successfully serve as an alternative career education program, (2) the program was demonstrated to be an integrated, transportable product since it was successfully implemented in a local high school, and (3) the program was demonstrated to be an enjoyable experience since it was positively received by students, employers, parents, and former students. Appendixes contain instruments used in the evaluation study. (TA)

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FY'75 INTERNAL EVALUATION REPORT

ED138817

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Joe E. Shively, Ph.D. Director of Evaluation

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Experience-Based Career Education Appalachia Educational Laboratory Charleston, West Virginia

August 31, 1975

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Abbreviations

	El	Volunteer students who were randomly-assigned to the AEL Experience-Based Career Education Program.
	E2	Volunteer students who joined the AEL/EBCE Program under , non-random conditions.
	KL	Volunteer students who joined the KCSS/EBCE Program at Charleston High School under non-random conditions.
	Cl	Volunteer students who were randomly assigned to the control group and remained in their home high schools.
	C2	Volunteer students who were initially randomly-assigned to the AEL Experience-Based Career Education Program but subsequently elected to remain in their home high schools and volunteered to serve as non-randomly selected controls.
	CMI	Career Maturity Inventory
	CTBS	Comprehensive Tests of Basic Skills
	ASA	Assessment of Student Attitudes
•••••••••••••••••••••••••••••••••••••••	SIQ	Student Information Questionnaire
	USOE	United States Office of Education
	NIE	National Institute of Education
	AEL	Appalachia Educational Laboratory
	EBCE	Experience-Based Career Education
	LC	Learning Coordinator
	KCSS	Kanawha County School System
	CHS	Charleston High School
	ETS	Educational Testing Service

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This report fulfills a requirement of the Appalachia Educational Laboratory/Experience-Based Career Education (AEL/EBCE) contract with the National Institute of Education (NIE) that an <u>FY'75 Internal</u> <u>Evaluation Report</u> be prepared and submitted to the Career Education Frogram*(CEP) staff of NIE. The report has been prepared by the evaluation staff of the Experience-Based Career Education (EBCE) Program of the Appalachia Educational Laboratory, Inc. (AEL).

The report is principally intended for the NIE Career Education Program staff. It is most meaningfully read in conjunction with other program materials which describe the program, its staff, the community, and its experience sites. These can be found in the <u>Operational Plan</u>, <u>FY'75</u> and the <u>Quarterly Progress Reports</u>. If the reader does not have these program descriptions or first-hand knowledge of Model II programs of NIE/ČEP, he is urged to obtain them from the EBCE Program Director, Appalachia Educational Laboratory, P. O. Box 1348, Charleston, West Virginia 25325.

The following material is organized into six sections: Section 1 is an overview of the EBCE program and the EBCE evaluation activities; Section 2 describes the student population in terms of baseline data for the experimental and control groups; Section 3 presents an overview of the internal formative and summative evaluation design; Section 4 presents the activities and findings of summative evaluation; Section 5 overviews the AEL/EBCE findings as identified by formative evaluation; and Section 6 summarizes findings and conclusions.

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*Now called Education and Work.

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Section 1 Introduction

The Appalachia Educational Laboratory's (AEL) Experience-Based Career Education (EBCE) Program has been in existence for over three years. Originally the project was funded by the United States Office of Education (USOE), later by the National Institute of Education (NIE). Based on a USOE directive, AEL developed a project that would be a community-based experientially-priented alternative educational curriculum for high school students.

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The first year of operation of the AEL/EBCE Program was devoted to the development and trial of key components of the AEL/EBCE model. The second year of operation was spent in revising system components into an integrated transportable product. The third year of operation was spent in refinement of all sub-systems and materials, in preparation for the forthcoming training and implementation cycle of the EBCE program.

Formative Evaluation

Activities associated with formative evaluation can be divided into four phases: establishment of timelines, finalization of the formative evaluation plan, development of necessary instrumentation, and finally, implementation of the evaluation plan. All phases occurred between september 1, 1974 and June 30, 1975.

Timelines established for actual formative evaluation of AEL's Experience-Based Career Education system cover the period between October 1, 1974 and June 30, 1975. Since the original plan was revised (September) and instruments had to be developed (October through December), implementing evaluation sooner than this would have been impossible. The revised formative evaluation plan was implemented from October 1, 1974

to June 30, 1975.

Instrument development occurred between October 1 and January 1. Each instrument was developed from questions outlined in the formative evaluation plan, according to the priority assigned and the type of instrument projected it. Instrument development proceeded with an effort on the part of the AEL/EBCE formative evaluation personnel to analyze the question and select a strategy for answering it. Existing formative evaluation_instruments_previously_used_in_the_AEL_and_other______ EBCE programs were reviewed and then these instruments were either

revised, adopted, or deleted. The instruments were then administered to appropriate respondent group samples, resulting data analyzed, and a report written. Finally, instrument revision was initiated when necessary.

Finalizing the formative evaluation plan was conducted in September. Since the strategies were well explicated in the FY'75 Operating Plan, only minor revisions were required. Findings associated with this evaluation are presented in Section 5 of this report.

Summative Evaluation

Internal summative evaluation activities consisted of 1) collecting and analyzing preliminary data, 2) establishing necessary evaluation controls, 3) finalizing a data analysis plan, 4) developing or securing additional instruments, 5) administering those instruments, and 6) analyzing the data and reporting the findings. These activities

occurred from September 1, 1974 to August 31, 1975 and proceeded as

- described below. External summative evaluation activities involved a cooperative effort between AEL and Educational Testing Service (ETS)

personnel to collect summative data on students, parents, employers, and former students.

During student orientation for fall, 1974, each student participated in a data collection program using standardized instruments. Students completed about two hours of inventories and tests. The Comprehensive T f Basic Skills (CTBS) assessed student academic achievement in in machematics. Demographic data were also collected using the Student Information Questionnaire (SIQ).

According to the summative evaluation plan, two groups of students (experimental group and control group) were to be selected randomly

from the pool of all students that volunteered for the EBCE program. This was completed before student orientation occurred in the fall, 1974. At NIE's request, a data analysis plan (in addition to the summative evaluation plan) was designed and submitted. Instrumentation was developed or secured in time for pretesting and/or posttesting of the students and other respondent groups. Posttesting of all EBCE student and control/comparison group students, and obtaining data from parents, employers, and former students took place in May and June. Most recent activities have involved the completion of planned test scoring, data analysis, and report writing.

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Section 2

Description of Student Populations

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Five distinct groups of students contributed to evaluation of the EBCE program during FY'75. The following sub-sections describe the circumstances and individual programs of each group of students and present data illustrating their comparative characteristics.

Experience-Based Career Education Students

There were three different groups of students who actively participated in the EBCE program during the 1974-75 school year All three groups participated in similar programs, and two of them (El and E2) used identical procedures, resources, and facilities. Distinguishing characteristics of these three groups were either method of selection (random \pm s. non-random) or EBCE program (AEL vs. Kanawha County School System-KCSS). The three groups of experimental students are:

El. These 51 students were randomly-selected from volunteers at 11 Kanawha County high schools (including Charleston Catholic High School) who participated in AEL's F CE Program and completed pretests and posttests. Thirty-five of these students were seniors and 16 were juniors.

E2. These students were 22 others who participated in AEL'S EBCE Program but were not sub exted to the random selection process. All E2 students for whom date are available were seniors.

KL. These students were 11 seniors and five juniors who completed Kanawha County School System's EBCE Program at Charleston High School and took all pretests and posttests.

Control Students

Two groups of students were selected from among the juniors and

16

seniors in Kanawha County high schools for purposes of comparison with EBCE students. These two groups are described below.

<u>C1.</u> These students were a randomly-sclected group of controls from Kanawha County high schools. They had volunteered to participate in the EBCE program but remained in their home high schools because they were not selected to participate in the EBCE program. <u>C2.</u> These students were non-randomly selected controls from Kanawha County high schools. Although these students had had the opportunity to join EBCE, they declined for various reasons. However, they did volunteer to be members of the control group.

All members of the control group for whom data were available completed their 1974-75 school year in one of 11 county high schools. These high schools offer considerable variance in the types of families they serve - from inner-city to rural to upper middle-class suburban. Their educational programs are basically traditional; however, variations of modular scheduling are used in some. Extensive use of continuous progress curriculum has also had an impact on several of the educational programs. Many seniors who require only one or two courses for graduation may attend school for as little as one-half day.

Descriptive Comparisons

Questionnaires and tests were administered in the fall of 1974 to all experimental and control groups (El, E2, Kl, Cl, and C2) to establish the degree of comparability. Comparisons among groups were made only when the data collected were amenable to legitimate comparisons. Student demographic data for all students were obtained utilizing the Student Information Questionnaire (SIQ; see Appendix A). Data from

this SIQ were coded and tabulated. A summary of these tabulations may be found in Table 1.

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*Includes responses referring to Occupational Categories mentioned only once

(e.g., homemaker, military service, service) and non-classifiable responses.

Comparisons of Demographic Data. Intergroup comparisons revealed that groups El, E2, Kl, and C2 were highly similar with regard to sex distribution; there were between five to ten percent more females than males in each of these groups. In group Cl, however, this pattern was reversed; 59% of this group was male and 41% was female.

As in previous years of program operation, most EBCE students this year (El and E2) were seniors. Group El was composed largely of seniors (69%), while the members of group E2 were all seniors. The control groups (Cl and C2) each contained about 60% seniors and 40% juniors. The Kl group was made up of 75% seniors and 25% juniors.

Comparisons of major field of study showed that 55% of students in the El group and 36% of students in the E2 group were enrolled in a general course of studies, whereas smaller proportions of Kl, Cl, and C2 groups (30%, 25%, and 21% respectively) were enrolled in this type of program. In the Kl, Cl, and C2 groups, more students were enrolled in college preparatory programs than in any other major field of study. In all groups, the majority of students were white; group Kl, which consisted totally of Charleston High School students, included the highest proportion of non-white students (30%). These proportions seem

to reflect the distribution of racial groups among the various Kanawha County schools represented rather than any selection bias.

Data on students' family background demonstrate that El, Cl, and C2 students were fairly similar with regard to father's education. In each of these groups, about one-third of the students' fathers had less' than a high school education, approximately another third had fathers who were high school graduates, and almost the same proportion had fathers

with post-secondary education. Groups El and C2 had the highest proportion of fathers with less than a secondary school education. Students from group Kl tended to come from families where the father had some post-secondary school education; students from the E2 group tended to come from families where both parents had pursued post-secondary education.

In groups El and Cl students' mothers were better educated than the fathers. In groups E2 and C2, the educational levels attained by the fathers and mothers appeared to be similar. Fathers appeared to be better educated than mothers in the Kl group.

Fathers of students in the El group tended to be employed in highstatus positions. Forty-three percent of the fathers of students in this group were employed in professional or managerial positions. Only seven percent of C2 students' parents held such jobs. The other three, groups (E2, K1, and C1) fell between these two extremes, with 27%, 35%, and 35% respectively.

Most students did not have any siblings who dropped out of school; of those who did, the largest proportion was found in the El group, where 14% (n=7) of the students had one sibling who dropped out of school, 4% (n=2) had two siblings who dropped out of school, and 2% (n=1) had three siblings who dropped out. In group E2, one student (5%) had three siblings who dropped out of school. In each of the other groups (K1, C1, and C2), one student reported having one sibling who dropped out of school.

<u>Comparisons of Academic Achievement</u>. All five groups of students were administered three subtests of the Comprehensive Tests of Basic Skills (CTBS) in September, 1974. Statistical analysis of the test scores

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(See Table 2) indicated that there were no significant differences in academic achievement between the true experimental group (El) and the true control group (Cl). No other comparisons were made, since the E2, C2, and Kl groups were not randomly-selected and therefore were assumed to be non-equivalent to the other two randomly-selected groups.

# Summary

Data collected on the five groups of students involved with the evaluation of the EBCE program indicated that to real differences initially existed between the groups. They were similar with respect to sex distribution, race, father's education level, number of siblings who dropped out of school, and level of academic achievement.

· · · · · · · · · · · · · · · · · · ·	Summary c	f CTBS Prete	st Data		1	
			3	···· ,		_
	El 51=بر)_	.)	C1 (n=3	• 3)	,	
Subtest	X	s.d.	X	s.d.	F*	р.
Reading Comprehension	31.64	7.58	30.06	9.00	0.78	0.62
Arithmetic Concepts	18.88	5.87	17.45	6.42	1.09	0:30
Arithmetic Applications	12.59	4.57	11.79	5.26	0.56	0.54
· · · · · · · · · · · · · · · · · · ·			•	ŗ • ,		÷

Table 2

 $*F_{.90}(1,79) = 2.78$ 

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# Section 3

# Evaluation Design

During the development of an educational program, there were many machines that had to be made by the development or program staff. Some decisions were based upon past research and experience, but other decisions were reached only as a function of the collection and malysis of data as the program was in operation.

There were also decircing to be made by persons other than the program staff. The Laboratory administration could, upon advice of the Board of Directors or other influential advisors, change the direction of the program. Was the course of the EBCE program in line with the needs and priorities established for the region, state, or country? If a decision to change the direction or style of the program was to be made, then decisions regarding the appropriateness of associated personnel to carry out the newly-directed program must also be made.

Similarly, the funding agency must make decisions about the program which are crucial to the existence of the program. In terms of short-range type decisions the funding agency must decide whether EBCE was still needed and then whether AEL had a need to produce an EBCE version of its own. The funding agency had to decide whether AEL had maintained its capacity to produce a quality EBCE program. They also had to decide whether the EBCE program was unique in its approach to alternative education and whether the integration of the systems had occurred. In terms of long-range decisions the funding agency had to decide if the EBCE program would produce the outcomes stated in the <u>FY'75 Operational Plan</u>, and in the process of updating the evidence for such an initial decision, the funding agency

had to decide if an appropriate groundwork had been laid to insure that stated outcomes were privided. The funding agency also had to decide whether or not the goal of the EBCE program was congruent with the needs and priorities of country, as mandated by the federal government.

Finally, the potential commer must decide whether the measured outcomes of using the EBCE program warrant the expenditure of resources required for implementation. The receptivity of the product user also filters back into the decision-making process of the funding agency.

### Evaluation Areas

The evaluation of the AEL/EBCE program involved two matthrusts -- Formative Evaluation and Summative Evaluation. Both forms of evaluation had a similar function -- that is to delineate, obtain, and provide information to decision-makers for judging decision alternatives. The differences between the evaluation efforts was a function of the intent of each.

Formative Evaluation attempted to assess the value of individual program components to insure that every component worked as well as possible, both in isolation and as it meshed with other components. It is a process which sought information to answer those questions critical to the rational decision-making necessary to accomplish the scope of work.

The primary concern of Summative Evaluation was to assess the effectiveness of both the AEL/EBCE project in terms of student attainment of project objectives and in terms of the viability of the project as an alternative to traditional secondary education.

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The information provided by the summary evaluation will be used by Becisic -makers for major program model mations and functing decisions.

The evaluation design was delineated in three different areas: External Summattive, Internal Summative, and Internal Formative.

### External Summarive Evaluation

The MIE selected the Educational Testing Service (ETS) to do an external summative evaluation of the AEL/EBCE program (and EBCE programs at three other Laboratories). Since development of the external design was the responsibility of the external stractor, no attempt will be made here to delineate those designs and/or analytical procedures developed by ETS which are pertinent to providing the funding agency with evidence regarding product effectiveness. However, AEL/EBCE did engage in the following activities with respect to ETS and its external summative evaluation contract: The internal evaluation staff:

- a. Provided on-going liaison between ETS and project staff and between ETS and all respondent groups specified in the work statement and contract of ETS;
- b. Assisted ETS in the clarification of relationships between project processes; activities, and outcome rejectives;
- c. Assisted ETS in the search for appropriate instruments; and
- d. Reviewed ETS-developed instruments prior to use.

However, data preparation was the responsibility of ETS which submitted to the internal evaluation staff duplicate sets of lata after data were collected.

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### Internal immative Evaluation

The primary objective of the internal summative evaluation was to assess a effectiveness of the EBCE project not only in terms of student attainment of project objectives but also in terms of the viability of the project as an alternative to traditional secondary education. The tasks briefly outlined below include the activities related to internal summative evaluation activities.

The internal evaluation staff of the AEL/EBCE project had the responsibilities of:

- a. selecting appropriate control group students:
- b. taking appropriate steps to ensure that sufficient numbers
  - of control students were maintained so that appropriate
  - statistical analyses could be performed;
- c. developing or securing instruments for objectives unique to our individual project;
- d. reviewing instruments designed to measure common objectives;
- administering standardized tests;
- f. providing as needed available longitudinal data or all respondent groups;
- g maintaining a set of data files necessary for the internal summative evaluation;
- h. submitting to NIE by February 28, 1975, the required FY'75 data analysis plan;
- i. analyzing all data releted to their own project and summitting a data analysis report as part of the end-of-mear evaluation report; and

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j. writting and submitting quarterly progress reports and final reports which adhered to NIE/CEP guidelines for reporting

forman, schedule and content.

The evaluation director also visited other EBCE projects during FY'75 as part of the joint evaluation meetings and presented papers on the EBCE evaluation at the AERA convertion in Washington, D.C.

Design. Although the AEL/EBCD FY'75 Data Analysis Plan (See Appendix B) explicities the design of the internal summative evaluation in greater detail, a prief description is provided to enhance the continuity of the report. Basically, five groups of experimental and control students were established during pre-treatment repruitment selection. Groups EL and Cl were established in order that direct comparisons of under experimental design conditions could be made. (Groups E2 and C2 to ge comprised of various combinations of non-tendomly selected students and were to be used for investigations under guasi-experimental conditions . The under the students enrolled at Charleston Him School is a nearly autonomically-operated EF i situation.

Data were gathered from these groups through the administration of the following instruments:

- a. <u>Student Information Questionnaire (SIQ</u>) This instrument was constructed to provide baseline data on otherant character-
- h. <u>Comparation Pests of Basis Skills (CEBS)</u> This standarduzed test of basic academic performance contained a reading comprehension, arithmetic concepts, and writhmetic applica-

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tions subtests.

- c. <u>Career Maturity Inventory (CMI)</u> This standardized test contained a mammer attitude scale and subtests of several areas of career-related competencies.
- d. <u>Assessment of Student Attitudes (ASA)</u> This instrument (developed by Research for Better Schools) assessed students' attitudes and opinions toward their academic and career education programs.

The SIQ was administered to all groups at the beginning of the school year to gather information on non-criterion variables. The CTBS was used with all five groups in a pre-post fashion to assess program effects. The MSA was administered is post-treatment instrument to all five groups. The CMI was administered in a post-treatment fashion to groups E1, 51, 11, and C2 and in a post-post fashion to group K1. Table 3 contains a list of the instruments and the administration schedule.

### Table 🗅

Instrument Administration Schedule

by Studgent Groups

Instrument	Pretest (sept. 1974	Posttest May 1974
5IQ	F1, E2, C1, 22 F1	с ар 1
CIES	E1, E2, C1, C2, E1	El, E2, Cl, C2, Kl
ASA		E1, E2, C1, C2, K1
CMII		El, E2, Cl, C2, Kl

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Once the groups of students were identified, appropriate instruments were selected to test nine hypotheses which were generated to evaluate student growth or student effects as a function of participation or nonparticipation in the EBCE program. These hypotheses dealt with basic academic skills, career knowledge, career maturity, and attitudinal development.

Although students are the main group affected by the EBCE program, other repondent groups are also impacted by its implementation and subsequent operation. Parents and employers are two such groups which were administered instruments to determine their attitudes toward the EBCE program. Similarly, students who 'ad graduated from the EBCE program in 1973 and 1974 were also assessed as to their attitudes toward learning environments or job satisfaction.

Appropriate statistical analyses were performed on the data after collection and aggregation. The results of those analyses are reported in this final evaluation summary.

### Internal Formative Evaluation

The internal formative evaluation staff focused its attention on three major areas: The AEL/EBCE project, the EBCE project being run by the Kanawha County School System (KCSS), and a comparison of the two projects. The information produced and documented by the KCSS field test provided new information relating to the replication of the EBCE program and the impact of external operations on the integrity of the EBCE concept. This information should prove invaluable in FY'76 when replication and dissemination of the EBCE model begins.

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A set of formative evaluation questions common to both projects were indentified using past knowledge and projected items of concern for the KCSS operation. All the questions identified were relevant to one of four categories: 1) the EBCE delivery system, 2) the impact of program on students, 3) the knowledge of implementation variables, and 4) the relationship to experience sites. The following information was generated for each formative evaluation question : (a) Site specific information (AEL, KCSS, or both), (b) focus of the question, (c) instrumentation, (d) time schedule for collecting data, and (e) results of assessment.

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Section 4 Summative Evaluation

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As in FY'74, the primary objective of summative evaluations during FY"75 was to provide valid and reliable evidence of the effectiveness of the EBCE program. Program objectives were identified, and hypotheses were formed around which a research design was developed (see Appendix B). In this section, outcome data pertaining to students, parents, employers, and graduates are presented, analyzed, and ewaluated.

Statistical analyses were selected to test the main effects and other effects associated with each hypothesis stated in the <u>AEL/EBCE</u> <u>FY175 Data Analysis Plan.</u> Descriptive statistics and correlated t-tests were used to describe groups and measure gains within a given group (if appropriate). A univariate analysis of variance was used to determine whether differences between groups existed within the basic academic skills mastery, career knowledge, career maturity, and attitude towards learning environment variables. An alpha value of .10 or less was determined to be satisfactory to warrant assumption of the existance of a significant difference.

### Program Impact and Program Effects

The impact and effect of the EBCE program on various respondent groups was determined by testing a number of hypotheses. The format of this section is to state each hypothesis, give the sources of the data collected to test each hypothesis, the procedures used for hypothesis testing, a description of the findings, and a summary.

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A. Hypothesis #1

The first hypothesis to be tested was that AEL/EBCE students in the El group will acquire increased (p $\langle .10 \rangle$  mastery in basic academic skills.

1. Data Source

The data used to evaluate this hypothesis were El students' scores on each of three subtests of the Comprehensive Tests of Easic Skills (CTBS; See Appendix C). The CTBS was administered to El students in September and May.

2. Procedure

The pretest and posttest mean scores of El students on three CTBS subtests (Reading Comprehension, Arithmetic Concepts, and Arithmetic Applications) were examined. Then, correlated t-tests were performed to determine whether El students had made significant gains (p $\langle .10 \rangle$  in basic academic skills during the 1974-75 school year.

3. Findings

Table 4 shows the results of correlated t-tests (one-tailed) on pretest and postest CTBS subtest scores. El students showed no significant (p<.10) gains in basic academic skills, as measured by the three CTBS subtests, over the 1974-75 school year.

4. Summary

Hypothesis #1 was rejected; AEL/EBCE students in the El group did not show increased mastery in basic academic skills. However, one goal of the program was that AEL/EBCE students would do as well in basic academic skills as students enrolled in traditional high school programs. This goal is tested in hypothesis #2. Correlated t-tests on Pre/Post CTBS Scores of 51 El Students

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	1			· · · ·	· · · ·
ور			Reading Comprehension (45 items)	Arithr.etic Concepts (30 items)	Arithmetic Applications (20 items)
		méan #	31.64	18.88	12.59
	Pretest	<b>s.d.</b>	7.58	5.87	4.56
	· · ·	mean	32.00	19.24	12.94
	Posttest	s.d.	8.92	5.47	4.67
		t-test*	+0.40	+0.72	+0.92
• -		r	0.72	0.81	0.82

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*t_{.90}(50)=1.30

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Table

#### B. Hypothesis #2

The second hypothesis was that experimental students (E1) would do as well in basic academic skills as control students (C1) enrolled in traditional high school programs.

1. Data Source

The data used to evaluate this hypothesis were El and Cl students' scores on each of the three subtests of the Comprehensive Tests of Basic Skills (CTBS). El and Cl students were administered the CTBS in September, 1974, and again in May, 1975.

2. Procedure

The pretest and posttest mean scores of El and Cl students on the three CTBS subtests (Reading Comprehension, Arithmetic Concepts, and Arithmetic Applications) were examined and compared to determine whether El students or students in the randomly-selected control group (Cl) had acquired significantly greater (p <.10) mastery in basic academic skills. Comparisons were made utilitzing an analysis of variance procedure to test the equivalence of El and Cl

groups on the CTBS subtests scores at the beginning and at the end of the 1974-75 school year. (The ANOVA of pretest scores was conducted / to determine if covariance techniques were applicable.)

3. Findings 🗠

Means and standard deviations on pre-post CTBS scores are presented in Table 5. The El and Cl groups were equivalent with respect to their performance on the CTBS at the beginning of the year, thus negating the need for covariance techniques (See Table 6). The ANOVA of posttest scores indicated no significant differences between the two groups of students on the three CTBS subtests (See Table 7).

4. Summary

Hypothesis #2 was not rejected; experimental students (El) did as well as control students (Cl) in traditional high schools in basic academic skills. It appears that there was little difference in the performance of these two groups (El and Cl) on the three CTBS

subtests.

## Table 5

### Means and Standard Deviations on Pre-Post CTBS Scores El and Cl Students 1

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14.1.1.1.1.1.1.1.1.					rehension items)		oncepts O items)		cation ' items)	
				El	Cl	El	Cl	El ·	Cļ	
		range		11-42 .	9-43	9 <b>∸</b> 30	7-30	4-20	4-20	میں اور بی اور
			÷		•	•		•		
		mean '		31,64	30.06	18.88	17.45	12.59	11.79	
	Pretest							•	•••••	
``		s.d.		7.38	9.00	5.87	6.42	4.56	5.26	
, 24 	•	n		- 1-51	33	51	33	51	33	
		range		10-44	6-45	10-28	6-30	2-20	3-19	an a
	Posttest	mean		32::00	30.33	19.24	18.37	12.94	11.70	
		s.d.		8.92	9.78	5.47	6.70	4.67	5.03	
· .		ņ		51	30	. 51	30	.51	30	-
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### Table 6

#### ANOVA on CTBS Pretest Scores* El V: Cl

					· (	
Variable	Source	df	MS		<u>p</u>	,
Reading	Group	1	50.43	0.78	0.62	<b>.</b>
Comprehension	Residual	79	64.64		· · · · ·	
Arithmetic	Group	1	40.85	1.09	0.30	•
Concepts	Residual	79	37.52			
Arithmetic	Group	1	12.83	0.56	0.54	
Applications	Residual	79	22.91		· ·	. `
					·····	

*Sample size: n_(E1) = 51, n_(C1) = 33 **F_{.90}(1, 79) = 2.78

#### Table 7

ANOVA on CTBS Posttest Scores* El vs Cl

	 	and the second second	5	•	
Variable		Source		df	
		· · · · · · · · · · · · · · · · · · ·	41.1		

-	Reading	Group	1	52.47	- 0 <b>.6</b> 9	• 0.59	· · ·
ŝ	Comprehension	Residual	76	75.94	•	•	••
			e di Terre	in a second s			
	Arithmetic	Group	1	14.25	, [°] 0 <b>.</b> 39 ′	° 0.54	
	Concepts	Residual	76	36.17	··· ·		12 A. 2
							`
•	Arithmetic	Group	1	<b>29.1</b> 0	1.27	0.26	
1	Applications	Residual	76	23.03		_	
	and the second sec	ه د شور د	-				

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*Sample Size:  $n_{(E1)} = 51$ ,  $n_{(C1)} = 30$ **F_{.90}(1, 76) = 2.78 C. Hypothesis #3

The third hypothesis was that experimental students (E1) will acquire significantly greater (p < .10) mastery in career knowledge than control students (C1) in traditional high schools.

1. Data Source

The data used to evaluate this hypothesis were the El and Cl students' scores on the Competence Test of the Career Maturity Inventory (CMI). The five subtests of the CMI Competence Test were: 1) Knowing Yourself, 2) Knowing About Jobs, 3) Choosing A Job, 4) Looking Ahead, and 5) What Should They Do (See Appendix D ). El and Cl students were administered the CMI in May, 1975.

2. Procedure

The posttest mean scores of E1 and C1 students on the five CMI Competence Test subtests were compared utilizing analysis of variance techniques to determine whether E1 students had acquired significantly greater (p <.10) mastery in career knowledge than C1 students.

3. Findings

Means and standard deviations on posttest CMI Competence Test subscores are presented in Table 8. The ANOVA of posttest scores indicated no significant differences between the two groups of students on the five CMI knowledge subtests (See Table 9 ).

4. Summary

Hypothesis #3 was rejected; El students did not acquire significantly greater (p <.10) mastery in career knowledge than Cl students in traditional high schools.

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Table 8

Means and Standard Deviations on CMI Posttest Scores

El and Cl Students

/	÷.	Atțit Scal (50 it	.e	Knowi Yourse (20 it	1f	Knowi About (20 it	Jobs	Choos A Jo (20 i	b	Look: Ahea (20 ii	ad	What S They (20 i	
	•	El	C1	El	Cl	El	Cl	El	C1	El	C1	El	Cl
range			. 22-44	2-19	2-18	7-20	6-20	3-19	4-18	<u> </u>	2-18	<u>-8-1</u> 6	2-18
mean		36.47	33.50	13.14	<b>13.</b> 00	15.67	14.97	12.55	12.23	12.62	12.67	10.41	10.63
s.d. U		6,31	6.02	· 3 <b>.7</b> 2	3,79	3.40	3.86	3.73	4.03	4.19	4.05	3.21	3.51
'n		51	30	51	30	51	30	,51	30	51	30	· 51	30

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## Table 9

## ANOVA on CMI Posttest Scores*

## E1 vs. Cl

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	· · · ·			·		•	
	Variable	Source	df	MS	<u> </u>	p	•
		Group	1	1.47	0.11	0.74	··. ·
	Knowing Yourself	Residual	76				
	· · ·	N		•			
		Group	ĺ	14.30	1.28	0.26	· · ·
· · · · ·	Knowing About Jobs	Residual	76	11.14			
- 4, t						<b>、</b> ·	
		Group	1	3.74	0.28	0.60	6
	Choosing A Job	Residual	76	13.38	· ·	:	
					•	۰.	· ·
• •	Looking Ahead	Group Residual	1 76	0.10 17.25	0.01	0.94	•
5	LOOKING Allead	Kestonal.	70	17.25	· .		
	• • • • •						· ·
	What Should They Do	Group Residual	1 76	0.85 11.28	0.08	0.78	
		,	, .				
			•				
		<b>)</b>					•
			. ,				
	*Sample size: n(EI)	= 50, n	(C1) =	30	•	•	•
	$**F_{.90}(1,76) = 2.78$						<b>*</b>
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D. Hypothesis #4

The fourth hypothesis was that experimental students (E1) will acquire significantly greater (p < 10) career maturity than control students (C1) in traditional high schools.

1. Data Source

The data used to evaluate this hypothesis were the El and Cl students' scores on the Attitude Scale of the Career Maturity Inventory (CMI). El and Cl students were administered the CMI in May, 1975.

2. Procedure

The posttest mean scores of El and Cl students on the CMI Attitude Scale were compared utilizing ANOVA techniques to determine whether El students had acquired significantly greater (p.10) career maturity than Cl students.

5. Findings

Means and standard deviations on the posttest CMI Attitude Scale scores are presented in Table 8. The ANOVA of posttest scores indicated that the El students had significantly greater (p<.02) career maturity scores than the Cl students (See Table 10).

4. Summary

Hypothesis #4 was not rejected; the EBCE students did acquire significantly greater career maturity than comparable students enrolled in traditional high schools.

Table 1	10
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## ANOVA on Posttest CMI Attitude Scores*

El	vs.	Cl

							4	
<u>.</u>	Variable		Source	df	MS	·F**	p	
	Attitude	<b>.</b> -	Group	1	199.27	5.70	0.02	
	19- 19-		Residual	76	34.98			•

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*Sample size: n(E1) = 50, n(C1) = 30

** $F_{.90}$  (1,76) = 2.78

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E. Hypothesis #5

The fifth hypothesis was that experimental students (El) will develop significantly more positive (p (.10) attitudes toward learning environments than control students (Cl) in traditional high schools.

1. Data Source

The data used to evaluate this hypothesis were the posttest scores of El and Cl students on the Assessment of Student Attitudes (ASA) instrument (See Appendix E). The ASA has four subtest scores (Attitude towards Education in General, towards School Curriculum, towards School Resources, and towards School Counseling) and a composite score (Attitude towards the Total Learning Environment). The ASA was administered to El and Cl students in May, 1975.

2. Procedure

Since the ASA utilizes a Likert-type format for item responses with some items possessing reversed polarity; subscale weighted points rather than actual response scores were analyzed. ANOVA techniques were used to determine whether El students leveloped significantly more positive (p<.10) attitudes toward learning environments than Cl students.

3. Findings

for the total ASA score.

Means and standard deviations on the posttest ASA scores are presented in Table 11. The ANOVA of posttest scores indicated that the El students had significantly more positive attitudes toward learning environments than the Cl students (See Table 12). Significant differences were found for each subtest of the ASA and

Table 11

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Total Education School School School Learning in General Curriculum 4 Resources Counseling Environment (35 points) (25 points) (45 points) (25 points) (130 points) . Cl Eļ E1 C1 El C1 Ell C1 El C1.--9**-**35 range 12-34 9-25 9-25 16-45 18-44 8-25 42-126 5-23 53-116 4 mean -28-96--22-80-20.43 17.47 38.14 29.83 19.45 106.98 15.27 85.37 s.d. 4.82 5.40 3.13 6.89 4.11 4.99 3.47 4.43 13.81 17.25 51 • 30 n 51 . 30 51 30 51 30 51 30

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Means and Standard Deviations on Posttest ASA Scores: El and Cl Students

à			ANOVA on Posttest ASA Scores* El vs Cl		· · · · · · · · · · · · · · · · · · ·		
• <u>Varia</u>	ble	Source	df	MS	` F**	<u>p</u>	
Educa In Ge	tion neral (	Group Residual	1 76	716.93 26.14	27.42	0.0001	
Schoo Curri	culum	Group Residual	1 76	166.02 12.23	13.57	0.0007	
Schoo Resou		Group Residual	1 76	1302.49 33.77	38.56	0.0001	
Schoo Couns		Group Residual	1 76	330.72 15.22	21.73	0.0001	
Total Learn Envir	1	Group Residual	1 76	8824.00 234.18	37.68	0.0001	

53

Table 12

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*Sample size:  $n_{(E1)} = 51$ ,  $n_{(C1)} = 30^{-1}$ 

** $F_{.90}(1, 76) = 2.78$ 

4. Summary

Hypothesis #5 was not rejected; the EBCE students did possess at the end of the school year significantly more positive attitudes toward the learning environment than did the control students in traditional high schools.

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#### F. Hypothesis #6

The sixth hypothesis was that experimental students (K1) will acquire increased (p < .10) mastery in basic academic skills.

1. Data Source

The data used to evaluate this hypothesis were Kl students' pretest and posttest scores on each of the three subtests of the Comprehensive Tests of Basic Skills (CTBS). The CTBS was administered to Kl students in September, 1974 and May, 1975.

2. Procedure

The pretest and posttest mean scores of Kl students on three CTBS subtests (Reading Comprehension, Arithmetic Concepts, and Arithmetic Applications) were examined. Correlated t-tests were performed to determine whether Kl students had made significant gains (p <.10) in basic academic skills during the 1974-75 school year.

3. Findings -

Table 13 presents the results of the correlated t-tests (directional) on pretest/posttest CTBS subtest scores. Kl students showed no significant (p < .10) gains in basic academic skills, as measured by the three CTBS subtests, over the school year.

4. Summary

Hypothesis #6 was rejected; Charleston High School students in their own program did not show increased mastery in basic academic skills.

Table 13

Correlated t-tests on Pre/	ost CTBS Scores	_of_16_K1	Students
----------------------------	-----------------	-----------	----------

	ŭ		Reading Comprehension (45 items)	Arithmetic Cortepts (30 items)	Arithmetic Applications (20 items)	
÷.		range	19-44	5-28 ,	4-20	•
Ł	Pretest	mean	32.00	18.63	11.69	
ور میں مربو ایک میں اور اور		s.d.	7.01	5.25	3.68	
-	· .	range ,	10-44	10-26	6-19	- - -
	Posttest	mean	29.44	18.13	12.31	
		s.d.	9.27	5.35	3.83	_
. •		t-test *	-1.42	-0.45	+0.77	• •
		r	.64	.65	.63	

 $t_{.90}(15) = +1.34$ 

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56

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G. Hypothesis #7

The seventh hypothesis was that experimental students (K1) will acquire increased ( p < .10) mastery in career knowledge.

1. Data Source

The data used to evaluate this hypothesis were the Kl students' pretest and posttest mean scores on the Competence Test of the Career Maturity Inventory (CMI). The five subtests of the CMI Competence Test were 1) Knowing Yourself, 2) Knowing About Jobs, 3) Choosing A Job, 4) Looking Ahead, and 5) What Should They Do. Kl students were administered the CMI in September, 1974 and May, 1975.

2. Procedure

The pretest and posttest mean scores of Kl students on the five subtests of the CMI Competence Test were examined. Correlated t-tests (directional) were performed to determine whether Kl students had acquired increased (p < .10) mastery in career knowledge during the 1974-75 school year.

3. Findings

Table 14 (columns 2 through 6) presents the means and standard deviations for each of the five competency subtests and the results of the correlated t-tests (directional) on pretest/posttest CMI Competence Test scores. Kl students showed no significant (p < .10) gains in career knowledge, as measured by the five CMI Competence subtests, over the school year.

		Attitude Scale (50 items)	Knowing Yourself (?O items)	Knowing About Jobs (20 items)	Choosing A Jeb (21 Jeers)	Looking Ahead (20 items)	What Should They Do (20 items)
	range	30-42	4-18	4-20	5-28	10-20	6-15
Pretest	mean	.35.39	13.39	15.39	13,44	14.39	11.83
	s.d.	3.20	3.81	3.84			2.18
	range	29-46	4-18	10-20	6-19	8-18	6-17
Posttest	mean	37.83	14.00	16.06	13.61	13.61	11.11
	s.d.	4.59	4.12	2.97	3.39	3.01	2.93
	t-test*	2.26 *	0.95	0.99	0.27	-1.11	-0.99
	r	.35	.77	.67	.70	.46	.30
والمراجعة والمراجعة والمراجعة						, 	

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Table 14

Correlated t-tests on Pre/Post CMI Scores of 18 Kl Students

*t (17) = 1.33 .90



4. Summary

Hypothesis #7 was rejected; Charleston High School students enrolled in their own EBCE program did not show increased mastery in career knowledge.

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#### H. Hypothesis #8

The eighth hypothesis was that experimental students (K1) will acquire increased (p < .10) career maturity.

1. Data Source

The data used to test this hypothesis were the Kl students' pretest and posttest mean scores on the Attitude Scale of the Career Maturity Inventory (CMI). Kl students were administered the CMI in September, 1974 and May, 1975.

2. Procedure

The pretest and posttest mean scores of Kl students on the CMI Attitude Scale were examined. Correlated t-tests (directional) were performed to determine whether Kl students had acquired increased (p < .10) career maturity during the 1974-75 school year.

3. Findings

Table 14 (column 1) presents the means and standard deviations for the pretest/posttest CMI Attitude Scale scores and the results of the correlated t-test (directional). Kl students showed significant growth (p < .10) in career maturity over the school year.

4. Summary

Hypothesis #8 was not rejected; Charleston High School students enrolled in their own EBCE program did acquire increased career maturity.

#### I. Hypothesis #9

The ninth hypothesis was that experimental students (Kl) will acquire positive attitudes toward their learning environments.

1. Data Source

The data used to evaluate this hypothesis were the posttest scores of Kl students on the Assessment of Student Attitudes (ASA) instrument. The ASA has four subtest scores (Attitude towards Fducation in General, towards School Curriculum, towards School Resources, and towards School Counseling) and a composite score (Attitude towards the Total Learning Environment). The ASA was administered to Kl students in May, 1975.

2. Procedure

Since the ASA utilizes a Likert-type format for item responses with some items possessing reversed polarity, subscale weighted points rather than actual response are as were analyzed. Descriptive statistics were used to determine whether KL students acquired positive attitudes toward their leaves an ironment.

3. Findings

Table 15 presents the means and standard deviations for the posttest ASA subtest scores and the composite score. The data indicate that the Kl students did possess positive attitudes towards the educational aspects addressed in the four subtests of the ASA and toward the total learning environment.

4. Summary

Hypothesis #9 was not rejected; Charleston High School students enrolled in their own program did acquire positive



## attitudes toward various aspects of the educational system

and toward the total learning environment.

#### Table 15

Means and Standard Deviations on Posttest ASA Scores

	•				_
	Education in General (35 points)	School Curriculum (25 points)	School Resources (45 points)	School Counseling (25 points)	Learning Environment (130 points)
range	19-34	10-25	16-44	11-25	71-122
mean	27.QB	, 19.88	32.83	18.17	97.96
s.d.	4.16	3.30	6.96	5.99	15.20
n	24	24	24	2-1	24

Kl Students

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#### J. Hypothesis #10

The tenth hypothesis was that parents of EBCE students will have positive attitudes toward the EBCE program.

1. Data Source

The data used to test this hypothesis were from the results of a Parent Opinion Survey (See Appendix F) which was mailed out to 21 parents in May, 1975. Responses from 19 parents were received and tabulated.

2. Findings

Most parents who responded were very positive towards all aspects of the EBCE program. All parents were enthusiastic about the amount of opportunity the career education program provided their sons and daughters for learning about occupations. Fourteen parents (74%) felt that EBCE offered their children more opportunity for general learning; all but one parent rated the approaches to learning used in the EBCE program as very good or excellent. Almost all parent respondents (95%) thought that their son or daughter liked the career education program much better than past school experiences and indicated that they would allow their child to participate in EBCE if they had this choice to make again.

Parents felt that the greatest strengths of the EBCE program were the on-the-job experiences of students (n=8), the help students were given in making career choices (n=5), and the individual attention students received from resource persons, and EBCE staff members (n=5). Five parents who responded to the questionnaire stated that they felt the EBCE program had no weaknesses, and one elected to make no comment on this subject; the remaining 13 parents mentioned

a total of 18 different weaknesses. Most weaknesses were mentioned only once or twice. Program weaknesses most frequently mentioned were insufficient communication between EBCE and the students' home high schools, lack of sufficient suitable job sites, and an atmosphere that was too permissive.

Sixteen of the 19 parents surveyed thought that the Experience-Based Career Education program had had a good effect on helping their children in the formation of career plans. Fifteen parents (79%) also thought that their sons and daughters were much more motivated to learn in the EBCE program than they were in traditional schools. All parents rated the approaches to learning utilized in the EBCE program as good or excellent.

Parents also mentioned that they had noticed positive changes in their sons or daughters that might be attributable to participation in the EBCE program. (See Table 16)

Only two parents mentioned that they had noted any negative changes in their children that might have resulted from participation in the EBCE program. In both of these cases, the parents believed that their children had become "too independent." However, this change might not be negative, since some parents find moves to independence on the part of their children threatening, even when the child's needs are being served in this way.

Twelve of the 19 parents (63%) believed that their son or daughter talked with them "almost daily" about "what's going on in the career education program;" six (32%) stated that they had had frequent or very frequent contact with EBCE staff members. Eleven of the 19 respondents (58%) had attended at least one meeting during the school

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Characteristic	Mentions	Percent
rudent pecame more mature.	5	17
Student enjoyed school more	4	14
Student saw need for additional education	4	14
Student made a career decision	, 3	10
Student's grades have improved	2 .	7
Student made friends more easily	2	7 ·
Student became more independent	2	?
Student's attitude has improved	2	· 7
Student has developed more interests	1	3
Student makes decisions more easily	· 1	3
Student became happier	1	3
Student became more responsible	1	3
Student became more punctual	<u> </u>	3
Totals	29	98**

Table 16

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year where other parents of EBCE students were present. Most parents (58%; n=11) were definitely sure that they had received enough information about their children's progress in the EBCE program.

Almost all parents contacted (89%) rated the general quality of the Experience-Based Career Education program staff as very good or excellent. Fourteen (74%) rated their overall relationship with members of the EBCE staff as very good or excellent. (All but one of the remainder of the respondent group thought that it was satisfactory.) The enthusiasm of the EBCE staff was rated as very good , or excellent by 17 parents (89%). All parents but one rated the approaches to learning used in the EBCE program as good to excellent. The majority of the parents (63%) indicated confidence in the occupational plans of their sons or daughters, where such plans existed; however, five of the parents (26%) stated that their son or daughter had made no firm occupational plans at the time of the survey. Six parents (32%) believed that their son or daughter would be attending college one year after graduating from high school; the same number thought their child would be working at this time. The remainder of the parents (37%) thought that one year after leaving high school their son or daughter would be going to a business or trade school (21%), would be in the military (5%), or seemed unsure of what their child would be doing one year kence (11%).

Parents believed that the EBCE program had enabled their children to learn a number of things which they (parents) felt were highly important. In Table 17, parents rated the ability to work with others as the most important type of learning and further indicated that EBCE was highly effective in fostering this learning.

# Frequencies of Parents' Ratings of Types of Learnings Fostered By EBCE

Type of Learning:	Not Important		Importance		Highly Important	Not Effecti	ve	Effectiver	ess	Highly Effective
· · · · · · · · · · · · · · · · · · ·	1	2	3	4	5	1	2	3	4	5
a. Perform specific									~~~ <u>~</u> ~~~	
occupational skills	0 .	0	- 4	4	11 ′	. 0 .	0	3	6	10
b. Be punctual and organize		•							~~~~~~	
their time	0	0	0	3	16	Ó	0	2	12	5
c. Assume responsibility			······································	~~~~				· · · · · · · · · · · · · · · · · · ·		
for themselves	· 0 ·	0	· 0	3	16	1	0	2	3	13
d. Make decisions and								<i></i>	· · · ·	
follow through	0 ·	0	1	3	15	0	0	3	.7	9
e. Communicate with others										
in a mature way	0	0	. 0	5	14	0	0	_ 0	6	13
f. Be aware of more career								· · · · · · · · · · · · · · · · · · ·		
opportunities	0	- 0	0	4	15	0	0	2	3	14
g. Work with others	0	0	0 *	2	17	0	. 0	1	4 .	14
h. Evaluate their own					· · · · · · · · · · · · · · · · · · ·	· · ·			',	· · · ·
work	1 -	0	Ò	7	11	0	0	2	. <u>8</u> ,	9
i. Perform basic		.1		~~~		+		· · · · ·		······································
academic skills	0	0	4	5	. 10	0	0	ŷ	. 7	- 10
j. Think through and							;	——————————————————————————————————————		· · ·
solve problems	0	0	0	4	15	`0	0	1	9	9
k. Have a positive			·····			1.				
attitude toward self	0	0	0	4	- 15	0	10	1	6	12
l. Have a positive						,				
attitude toward work	0	-0.	1.	3	15	0	0	3	7	9
n. Have a positive attitude			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~					~~~~~	····· ,
toward learning	0	0	3	Ĩ	15	0	0	· 3	6	10
n. Prepare for further -			· · · · · · · · · · · · · · · · · · ·	·					· · · · ·	
education	0	2	1	3	13	0	0	4 ·	5	10
o: Improve interpersonal			·····			1			بي مش _ي ميدي م	
and social skills	0	0	1	8	10	.0	0	3	8	8

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Parents were also asked about where they had first heard about EBCE. Sources of initial information about EBCE most frequently mentioned by parents were the home high school (eight mentions), their own children (four mentions), friends of their children (four mentions), and letters (two mentions).

When parents were asked which kinds of students did they think would benefit most from a career education, there seemed to be little consensus of opinion among the 17 parents who responded to the item. Table 18 categorizes and displays parents' replies to this question .

#### Table 18

Kinds of Students Who Benefit Most From EBCE

Туре	Mentions	Percent
"Turned off"/mnmotivated students	5	20
Students who are unsure about future plans	4	<b>1</b> 6
Students who aren't going to college	3	12
Mature students	3	12
Disadvantaged students	2	8
Students with special needs	2.	8
Any/all students	2	. 8 "
Adventurous students	1	4
Students who need individualization	1.	4
Don't know		8
Totals	25	100%

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3. Summary

ţ Hypothesis #10 was not rejected; parents of EBCE students did have positive attitudes toward the EBCE program.

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K. Hypothesis #11

The eleventh hypothesis was that experience site resource persons and contact persons (hereafter designated as "employer") at various levels of their organization will have positive attitudes toward the EBCE program.

1. Data Source

The data used to test this hypothesis were gathered from the Employer Interview Instrument which was administered to employers by AEL/EBCE staff in May and June of 1975.

2. Procedures

An instrument was developed (See Appendix G) in order to collect data for the purposes of this study. Thirty-six (36) experience sites were randomly selected to be surveyed from a list of 80 active experience sites for the FY'75 school year. The employer at each experience site was contacted by telephone, and at this time an appointment was made for a face-to-face interview at a later date. Thirty-one experience site personnel were reached and interviewed.

A standardized data collection procedure was followed during each interview to insure similar exposure of each interviewer to the interview instrument. At the beginning of each interview, the interviewer reviewed the reasons for the study. All information which related to the standard questions was recorded, along with any additional comments or suggestions made by employers which the interviewer felt to be of importance.

3. Findings

Most employers were very receptive. They complimented EECE strengths and offered suggestions for program improvement. Eighty-four

percent (n=26) of the employers rated the EBCE program as being moderately effective to very effective, and 84% (n=26) believed that their organization would continue to participate in the Experience-Based Career Education program in coming years. (Four of the remaining five employers were unsure of their organization's continued participation in the EBCE program.)

Twenty-two of the 31 employers (71%) felt that the EBCE staff had provided them with the necessary information to direct students' activities. Twenty-five employers (81%) believed the EBCE program functioned as they had been initially led to believe.

Eighty-seven percent of the employers (n=27) believed that the EBCE students who had been placed with them were interested in their organization. Employers indicated that students placed at their sites frequently spent time in actively performing site activities. talking with experience site personnel, and observing site activities.

Experience site personnel often rendered various supportive services to EBCE students. The following services were frequently rendered to students by employers: (1) supervision of students in the performance of job-related tasks (n=25); (2) talking about activities at the job site (n=22); (3) talking about job opportunities (n=18); (4) helping plan students' assignments (n=18); and (5) evaluating individual student's assignments (n=12). (For a more detailed breakdown of services rendered by employers to EBCE students, see Table 19.) The employers mentioned an average of 5.4 services that they rendered to students.

Most employers (87%; n=27) believed that the greatest strengths of the EBCE program were in the area of career planning and decision-

7.3

Service Provided	Frequently	Occasionally	Seldom	Never	NO Answer
Supervision of students in job-related tasks	25	1	1	1	3.
Talking about job site activities	22	4	0	2	3
Talking about job opportunities	18	9	• 0	1	3
Helping plan students' assignments	18	4	0,	6	. 3 .
Evaluating individual students' assignments	12	5	3	· 8	.3
Talking about students' personal problems	2	10	7	. 9	3
Tutoring in an academic area	2	· · 7	4	15	3
Assisting students in non-job-related assignment	s l	б	7	13	4
Other	3	4 ;	0	0	24

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Supportive Services Provided by Employers to EBCE Students

Table 19



making. They felt EBCE was an important means of exposing students to the world of work, enabling them to explore different careers and aiding them in career decision-making.

Almost all employers reported favorable reactions toward EBCE students from employees and top-level management. Eighty-four percent (n=31) of employers' comments mentioned favorable reactions toward EBCE students from employees, and 90% (n=28) of employers' comments mentioned favorable reactions toward EBCE students from top-level management.

Fifty-five percent of the respondents (n=17) believed that EBCE students' presence at their experience site had positive impact on the amount of work performed by regular employees; 32% of the employers (n=10) believed that EBCE students had had positive impact on the quality of work performed by regular employees. A positive effect on company training practices was noted by 26% (n=8) of employers, and 19% (n=6) thought that there was a similar effect on company hiring practices. Where an impact was reported, it was almost always positive; however, many respondents perceived no impact whatsoever on company policies and practices (For a more detailed broakdown of the answers to this question, see Table 20).

Several employers suggested that specific changes be made in FY'76 to ameliorate certain program weaknesses . Six employers (19%) felt that there should be closer supervision of experience site activities by EBCE staff; five (16%) wanted the opportunity to decide about the timing and/or length of site placements. Six employers (19%) felt that there should be better matching of students and

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Tabl	e 20
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# Impact Reported by Employers on Company Policies and Practices

	Amount of Impact					Value of Impact			
Impact Area	No Impact	Some Impact	Much Impact	Don't Know/ No Answer		Good mpact	Bad Impact	Don't Know/ No Answer	
Quality of employee work	20	8	1	2		10	0	21	
Amount of employee work	9	19	1	2		17	3	11	
Company hiring practices	21	6	0	• 4		6	0	25	
Company training practices	21	.8	0	2		8 ÷	0	23	
Other	0	16	3	16	v	15	3	17	

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experience sites in order to insure successful site placements. Another frequently-mentioned weakness, cited five times, was poor communication between EBCE staff and experience site personnel.

4. Summary

Hypothesis #11 was not rejected; the majority of experience site resource persons and contact persons at various levels of their organizations had positive attitudes toward the EBCE program.

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L. Hypothesis #12

The twelfth hypothesis to be tested was that graduates of the EBCE program will demonstrate positive attitudes toward learning environments (if students) or demonstrate job satisfaction (if employed).

1. Data Source and Procedures

During May and June of 1975, a follow-up study of the students who had graduated from EBCE in 1973 and 1974 was initiated by AEL and the Educational Testing Service (ETS). The study was conducted jointly by AEL and ETS staff, and ETS staff was responsible for collecting all data. The two groups jointly prepared a nine-page 37-item interview schedule (See Appendix H) and 111 of the 128 students (86.7%) were located. The final sample was made up of 34 students who graduated from the EBCE program in 1972-73 and 77 who graduated in 1973-74 (See Table 21). Those data amenable to such treatment were coded and tabulated. The responses to the short-answer, open-ended questions were grouped as seemed most appropriate for each question. The responses to both types of questions are summarized in the following paragraphs.

2. Findings

The student groups were about equally represented by sex, and 40.5% of the group either had been or were presently enrolled in some form of post-secondary training as of June, 1975. About two-thirds of the graduates live with their parents, and 86.5% have remained single. Almost half of the EBCE graduates are now working full-time, and slightly more than one-third ze now full-

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## Table 21

Number and Percent of EBCE Graduates

Interviewed by Semester and by Sex*

,	<u>S</u>	eniors in	n 1972-	73		S	eniors in	n 1973-	74	Total		
		<u>l Year</u>		ng Sem.			<u>l Year</u>	and the second se	ng Sem.	:		
<u> </u>	No.	8	No.	*	ونطليب يدي	No.	*	No.	*	No.	ξ	
Male	13	81.2	8	. 44.5		12	37.5	22	48.9	55	49.5	
Female	3	18.8	10 4	55.5		20	60.5	23	51,1	56	50.5	
Total	16	100.0	18	100.0	≈.,	32	100.0	45 [`]	100.0	111	100.0	

*Students enrolled in EBCE during 1972-73 and 1973-74 were either enrolled for a full year

(both fall and spring semesters) or for only one semester (spring). Tables 21 through 32

reflect this enrollment pattern.

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time students (See Table 22).

Of the total sample, 61.3% reported no difficulty with obtaining employment (See Table 23). Those who did have some difficulty (38.7%) either reported that they didn't know the reason for their lack of success or that they didn't follow up on specific job applications. The most frequent reason for being unable to obtain employment related to the poor job market and some former students mentioned that they did not have particular qualifications for jobs in which they were interested!

Of the students who had worked, the most frequent occupational class was general labor or community or public service (See Table 24). Some reported holding secretarial, clerical, or office worker positions. Most of the graduates gave "money" as their primary reason for obtaining employment, and more than one-fifth of the students indicated that they were working to obtain money to further their education. About 15% indicated that they liked to work or that there was no other acceptable alternative. The students appeared to be pretty well satisfied with their present status and with the course of their careers (See Table 25). They felt that their careers were likely to turn out somewhat better than the careers of other people their age. (About two-thirds of the students indicated that they were much more satisfied with how their careers were likely to turn out than with how the careers of people their own ages were likely to develop.) with future or eer probabilities than they were with their present desire to improve their career standing. About status, which indicated three-fourths of the graduates indicated a desire to work at a job

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Present Activity of EBCE Graduates*

·	Set	niors in	1972-7	3		<u>Se</u>	eniors i	n 1973-1	74 -	To	tal
	Fuil	Year	Sprin	g Sem.		Full	Year	Sprin	ng Sem.		
Activity	No.		No.	\$		No.	Ą	No.	ç	No.	ŝ
Unemployed- Not Looking For Work	0		` - O	U		2	6.2	1	2.2	3	2.7
Unemployed- Looking For Work	2	12.5	2	11.1		5	15.6	5	11.1	14	12.6
Housewife	0	0	3	16.6		3	9.4	1	2.2	. 7	6.3
Full-Time Studenť	5	22.7	6	33.3		6	18.7	22	48.8	39	35.1
Part-Time Student	2	12.5	2	11.1		1	3.1	1	2.2	6	5.4
Working Part-Time	2	12.5	2	11.1	• .	9	28.1	9	20.0	22	19.8
Working Full-Time	11	68.7	10	55.5		11	34.4	19	42.2	51	
No. Resp.	0	0	0	٥.		0	0	1	2.2	1	.9
Tot. Sample	16		18			32		45		111	•;

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*The sum of numbers in columns may be greater than total sample size and sum of percent in columns may be greater than 100 because students were asked to respond to all categories that applied. ്റെ

	S	eniors in	n 1972- /	'3	Se	niors in			To	tal
		vear		ig Sem.		Year	_	g Sem,		
ried For	<u>No.</u>	<u></u>	<u>No.</u>		<u>No.</u>	<u></u>	<u> </u>	<u>*</u>	No.	
Yes	2	12.5	8	44.4	12	37.5	8	17.8	30	27.0
No	5	31.2	9	50.0	9	28.1	17	37.8	40	36.1
lo Response	9		1		11	-	20		41	
Total	16		18		32		45		111	
			:	:			· ·		 	
Reported Difficulty		¢								
None	13	81.2	13	72.2	16	50.0	26	57.8	68	61.3
Some	2	12.5	3	16.7	8	25.0	12	26.7	25	22.5
Much	1	6.3	2	11.1	7	21.9	5	11.1	15	13.5
lo Response	0	- •	0		1		2		3	
Total	16	•	18		32		45		111	

Number and Percent of Graduates Who Tried for and Didn't Get Jobs and Their Difficulty in Getting Work

Table 23



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## Kind of Work in Which EBCE Graduates Are or Have Been Engaged

	-	Seniors	in 1972	2-73	5	Seniors	in 19	13-74	To	tal
	Ful	l Year	Sprin	ng Sem.	Full	Year	Spr	ng Sem.		
Area	No.	÷.	No.		No.	£	NO.		No.	
Engineering, Physical Science, Mathematics, and Agriculture	Q	0	0	0	0	0	0	١	0	0
Medical and Biological Sciences, Agriculture, Forestry	0	0	0	0	• 0	0	1	2.6	1	1.0
Business Administration, Accounting	0	0	0 ^ć	0	. 0	0	0	0	0	0
General Teaching and Social Service	0	0.	0	0	1	3.4	1	2.6	2	2.0
Humanities, Law, Social and Behavioral Sciences	0	0	1	:6.2	0	0	0	0	1	1.0
Fine Arts, Performing Arts	1	6.2	0	P.	1	3.4	0	. 0	2	2.0
Technical Jobs, Computer Applications, Communications	2	12.6	1	6.2	4	13.9	0	0	7	7.0
Proprietors, Sales	1	6.2	2	. 12.5	0	0	• 4	10.2	7	7.0
Mechanics, Industrial Trades	0.	Ŭ	1	6.2	3	10.4	1	, 2.6	. 5	5.0
Construction Trades	0	0	0	0	1	3.4	1	2.6	2	2.0
Secretarial-Clerical, Office Workers	3	18.8	5	31.3	1	3.4	12	30.7	21	21.0
General Labor, Community & Public Services	8	50.0	6,	37.6	17	58.7	19	48.7	50	50.0
Military	1	6.2	0	0.	1	3.4	. 0	0	2	2.0
Nothing	0	0	0	0	Ö	0	0	0	0	0
TOTAL	16	100	16	100	29	100	39-	100	100	100

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Number of Students Who Were Satisfied/Dissatisfied

With Aspects of Pre the Job

1972-73 and 1973-74 Seniors

	Very l	Dissa 2	tisfied · 3	- Very 4	Satisf 5	fieđ NA	Mean (1-5)
Earnings	13	9	32	25	15	1	3.2
Duties	6	13	25	22	29	0	3.6
Job Security	13	11	24	12	34	1	3.5
Responsibility	5	6	24	27	33	C	3.8
Promotion	31	14	24	11	9	6	2.5
Benefits	26	12	13	6	26	12	2.9
Opportunities	15	12	19	25	23	· 1	3.3
Getting Along	3	2	10	25	52	3	4.3
Supervisor	10	5	12	22	43	2	3.9
Work Conditions	5	8	21	23	38	0	3.8
Number Responding							95

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other than the one at which they are currently employed, but this response may have been influenced by college and university students working at part-time jobs. Students most satisfied with their current jobs were those who enrolled daring the spring semester of 1974, and this was the group with the highest percent of Students participating in some educational or training program.

More students aspired to the medical and biological sciences (23.4%) than any other major category of occupations, and the second most popular occupational category was general teaching and social service (15.9%). There was wide dispersion of preferences across all categories of occupations. In self-comparisons with persons their own  $a_{5,7}$ , the graduates were pretty well satisfied with their progress to date and were especially well satisfied with their chances for success in the future. More than half of the graduates reporting rated the career condition, "getting along with fellow workers", as "very satisfied" in their present job, and they were least satisfied with the attribute designated "opportunity for promotion or advancement". Social considerations and opportunities for promotion were considered more important to EBCE graduates than were present earnings, specific job assignments, job sciently, or  $\frac{1}{2}$  sent opportunities to use their knowledge and ability.

Thirty-seven of the students (75%) participating in educational or training programs were enrolled in four-year colleges or universities. Other training programs, with two students each included employer training programs, junior colleges, and Armed Services training programs.

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More graduates continuing the seducation were studying in the areas of medical and biological sciences, including agriculture and forestry, than any other category. That area was followed closely by the general teaching and social service category. Almost threefourths of the graduates (72.3%) reported that they were satisfied with their educational program (See Table 26). Most of them (69.8%) indicated that their reason for pursuing their educational program was "to pursue a chosen career". No students indicated that "parent . pressure" was a main reason for choosing an educational program, and only one reported that "pressure from friends" was a reason. In an openended question, ten students indicated that pursuit of career opportunities was a major reason for participating in educational programs, and another ten gave a statement classified as an attempt to obtain knowledge. One 1974 spring semister student said, "I wanted an education that would serve me and let me go or and learn." Another indicated, "Experience, independence, getting away from home, and fun" in that order.

When asked about what kinds of subjects or skills they would like to learn in the next five years, the most frequent response was again classified as medical and biological sciences, and the second most frequent pertained to general teaching and social service (See Table 27). However, the most impressive aspect of the responses was the wide variation and precise specification of career areas. For example, the listing of subjects or skills included management finance, physical therapy, law, business math, dental ergiene, and forestry.

More than one-fourth of the graduates expended to complete a four-year college degree, 17 aspired to a M.A., and six hoped to

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	S	eniors in	n 1972-'	73	Se	eniors in	n 1973-	74	To	<u>tal</u>
	Ful	l Year	Spri	ng Sem.	Ful	l Year	Spri	ng Sem.		
	NO.	5	No.	<u>-</u>	No.	3	No.	\$	No.	*
	5	71.4	4	44.5	7	70.0	18	85.7	34	72.
	2	28.6	3	33.3	1	10.0	1	4.8	7	14.9
J	0	0	2	22.2	2	20.(	2	9.5	6	12.
	1	100.0	9	100.0	. 10	100.0	21	100.0	47	100.
		Ful No. 5 2	Full Year         No.       %         5       71.4         2       28.6         0       0	Full Year     Spring       No.     %     No.       5     71.4     4       2     28.6     3       0     0     2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Full YearSpring Sem.FullNo. $\underbrace{\$}$ No. $\underbrace{\$}$ 571.4444.57228.6333.3100222.22	Full YearSpring Sem.Full YearNo. $\underbrace{\$}$ No. $\underbrace{\$}$ 571.4444.57228.6333.3100222.2220.1	Full YearSpring Sen.Full YearSpringNo. $\underbrace{\$}$ No. $\underbrace{\$}$ No.571.4444.57228.6333.3100222.2220.12220.1	Full Year No.Spring Sen. No.Full Year No.Spring Sen. No.571.4444.5770.01885.7228.6333.3110.014.800222.2220.129.5	Full YearSpring Sen. No.Full YearSpring Sen. No.No. $\frac{8}{100}$ $\frac{8}{1000}$ $\frac{1000}{1000}$ $\frac{8}{10000}$ 571.4444.5770.01885.734228.6333.3110.014.8700222.2220.129.55

Satisfaction With Educational Programs

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Subjects or Skills Which EBCE Graduates Wish to Learn About in Next Five Years

	Se	eniors	in 1972-7	3.	Se	eniors i	n 1973-	74	To	otal
	Full	Year	Sprin	g Sem.	Full	l Year	Sprin	ng Sem.	•	
•	No.	8	No.	9	No.	40	No.	8	No.	8
Engineering, Physical Science, Mathematics, & Agriculture	• 2	12.5	0	0	0	0	0	Ņ	2	1.9
Medical & Biological Sciences,	•		h	10.0		0 <b>7</b> 4	16		20	
Agriculture, Forestry	2	12.5	. 3	16.8	7	23.4	16	38.1		.26.4
Business Administration, Accounting	4	25.0	2	11.1	0	0	4	9.5	10	. 9.4
General Teaching and Social Service	1	÷ 6.3	6	33.3	6	20.0	11	26.2	24	22.7
Humanities, Law, Social & Behavioral Sciences	1	6.3	1	5.5	. 3	10.0	3	7.1.	8	7.5
Fine Arts, Performing Arts	2	12.5	0	0	1	3.3	2	4.8	⁻ 5	4.8
Technical Jobs, Computer Appli- cations, Communications	2	12.5	3	16.8	5	16.7	• 0	0,	10	9.4
Propliecors, Sales	. 0	. 0	0	Ó,	0.	0	ŀ	2.4	1	.9
Mechanics, Industrial Trades	0	0	1	5.5	4	13.3	3	7.1	8	7.5
Construction Trades	. 0	.0	0	0	0	0	Ô	0	0	0
Secretarial-Clerical, Office Workers	1	6.3	- 1	5.5	1	3.3	2	4.8	5	4.8
General Labor, Community & Public Services	0	0	0	. 0	1	3.3	0	0	1	.9
Military	U	0	Ō	0	· 0	0	0	0	· 0	<i>"</i> 0
Nothing	1	6.3	1	5.5	2	6.7	.0.	0	4	3.8
Total	16		18	•	30		42		106	

obtain a doctorate (See Table 28). Students who attended only spring semesters during each of the two years tended to have somewhat higher educational aspirations than students who attended the full year. This was probably due to a selection bias, since students who had · completed all formal college requirements tended to have postponed entrance into EBCE until the second semester of their senior year. When asked how much money they expected to make five years from now, the category most frequently responded to was \$10,000 to \$14,999 per year (See Table 29).

The final section of the interview dealt with the graduates' attitude toward their EBCE experience. The aspect they liked most was classified as relating to work experience at sites (See Table 30). Comments included, "Got a chance to judge other working environments," and "I liked the way you could work at a job two weeks or more or less; you had a choice of such a wide variety of careers you could look into." Several students expressed a liking for the freedom to pursue career interests and others stated some preference for the learning coordinators or the administration of the EBCE Program. When asked for dislikes concerning the EBCE Program, more students responded positively than cirtically. A few of the students had criticisms concerning the administration; e.g., "red tape", and a few (4.5%) indicated socialization difficulties.

When asked to rate certain skills, the former students felt they had gained most in "ability to communicate with adults", and that skill area was followed by "learning specific job skills". The area in which they felt they had learned least was math skills. When the

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Table 28	
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	Se	niors i	n 1972-7	3		Se	eniors in	n 1973-7	4	Tot	al
	Full	Year	Sprin	ig Sem.	¢.	Full	Year	Sprin	ig Sem.		
	No.	<u>*</u>	No.	-*		No.	*	No.	· <del>\$</del>	No.	*
Don't Know	4	25.0	1	5.6		i,	12.5	4	8.9	13	11.7
High School	1	6.3	3	16.6		3	9.4	5	11.1	12	10.8
l-Yr. College	0	0	0	0		3	9.4	1	2.2	4	3.6
Business Center	. 0	0	0	0		0	0	0.	0	0 .	0
Vocational or Technical	0	0	1	5.6		4	12.5	3	6.7	8	7.2
2-Yr. College	4	25.0	1	5.6		2	6.1	4	8.9	11	9.9
4-Yr. College	3	18.7	8	44.4		б	18.8	16	35.6	33	29.7
MA	2	12.5	4	22.2		7	21.9	4	8.9	17	15.3
Doctor	2	12.5	0	0		0	0	4	8.9	6	5.4
Other	0	0	0	0		Ď	0	. 2	4.4	2	1.8
No Response	0	0	. 0	0		3	9.4	2	4.4	. 5	4.6
Total	16		18	•		32		45		111	:

Planned Level of Formal Education



	Senic	ors in 1972	-73	Se	miors i	n 1973-7	4	Tot	al
	Full Ye	ar Spr. 8 No.	ing Sem. <u>*</u>	Full No.	Year <u></u>	Sprin No.	g Sem.	No.	
Less Than \$5,000	0 0	0	0	2	6.3	1	2.2	3	2.7
\$5,000-\$7,499	2 12	2.6 2	11.1	6	18.8	6	13.3	16	14.4
\$7,500~\$9,999	16	5.2 2	11.1	5	15.6	6	13.3	14	12.6
\$10,000-\$14,999	6 37	.5 4	22.2	9	28.1	11	24.5	30	27.0
\$15,000-\$19,999	16	.2 7	38.9	2	6.2	8	17.8	18	16.2
More Than \$20,000	6 37	.5 3	16.7	3	9.4	7	15.6	19	17.1
No Response	0 0	. 0	0	5	15.6	6	13.3	11	10.0
Total	16	18		32		45		111	

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Expected Annual Income in Five Years

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		Seniors 1 Year		2-73 ng Sem.		Seniors 1 Year		<u>3-74</u> ng Sem.	Total	
Aspect	No.		No.	119 Selli, 8	No.		No.	119 Sem. 8	No.	
Freedom to pursue career interests	4	25.0	6	33.3	5	15.6	. 11	24.4	26	23.4
Work experience at job sites	7	43.8	5	27.8	16	50.0	11	24.4	39	35.1
Learning Coordinators or adminis- tration of program	4	25.0	3	16.7	5	15.6	13	28.9	25	22.4
Individualization and self-direction	1	6.2	3	16.7	4	12.5	· 7	15.6	15	13.5
Social aspects (e.g., meeting kids from other schools)	0	0	1	5.5	2	6.3	0	0	3	2.8
No Response	0	0	0	0	0	0 '	3	6.7	3	2.8
Total	16	100.0	18	100.0	32	100.0	45	100.0	111	100.0
			يج الشناني							

Aspects of EBCE Program Liked Best

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graduates were asked what things they learned in EBCE are most useful to them now, the most frequent responses related to the social skills area. For example, one student answered, "how to deal with people." Another answered "getting along with people--how to communicate with people at job sites, and communicating with fellow workers." Almost all the former students (98%) gave graduation as their reason for leaving EBCE, and none of the 111 former students interviewed reported that they "dropped out" or were "asked to leave".

When asked if their time spent in EBCE had had a positive, negative, or no effect on their preparation for further education or jobs, a wide majority (more than 80%) of the graduates indicated a positive response for both categories (See Table 31). However, their first jobs after graduating from EBCE did not closely relate to their EBCE experience. Almost two-thirds of the students indicated that they were employed in a completely different occupation (See Table 32).

When asked if there were anything more that they would have liked to have received from the EBCE Program to assist them in further education or training, the most frequent response related to additional career experience. For example, one interviewer recorded "would have liked to have had another job site worked out, but she was short of time-should have been in the program sooner."

3. Summary

Hypothesis #12 was not rejected; former students do have positive attitudes toward learning environments or demonstrated job satisfaction. The EBCE graduates from the past two years have selected a wide range of careers and training programs. They feel that they are progressing

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Type of Effect EBCE Had on Preparation for Further

Preparation for Further Education Seniors in 1972-73 Seniors in 1973-74 Total Full Year Spring Sem. Full Year Spring Sem. No. No. ÷ 8 No. 8 No. No. 육 € Positive 15 93.8 14 77.7 75.0 24 36 83.7 89 81.7 No Effect 1 6.2 4 22.3 5 15.6 7 16.3 17 15.6 Negative 0 0 0 0 3 0 0 9.4 3 2.7 No Response 0 0 2 2 0 109 32 Total 16 18 43 12

				Prepa	ratic	n for	Jobs			
	Sen	iors i			Sen	iors i			T	otal
		Year	_	ng Sem.		Year.		ng Sem.		
	No.		<u>No.</u>	_ <del></del>	<u>No.</u>		No.		<u>No.</u>	
Positive	14	87.6	15	83.3	27	84.4	37	86.1	93	85.3
No Effect	1	6.2	3	16.7	3	9.4	5	11.6	12	11.1
Negative	· 1	6.2	0	0	2	6.2	1	2.3	4	3.6
No Response	0		0		0		2		2	× .
Total	16		18	G	32		43	•	109	

Education and Preparation for Jobs



How Closely First Job After Graduating

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### Related to EBCE Experience

	Sen	iors i	n 197 <b>2</b>	<b>-7</b> 3	Sen	iors i	n 19 <b>7</b>	3-74	Т	otal
	Full	Year	Sprin	g Sem.				ng Sem.		
	No.	<u></u>	No.	8	No.		No.	8	No.	*
Employed in Occupation	4	25.0	1	6.2	2	6.4	8	20.5	15	14.7
Related Occupation	5	31.2	8	50.0	5	16.1	7	1 <b>7.</b> 9	26	25.5
Different	7	43.8	7	43.8	24	77.4	24	61.5	62	60.7
No Response	0		2		1		6		9	
Total	16		16		31		39	. •	102	

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at a rate somewhat better than persons their own age, and are quite positive concerning their EBCE experience. Although they have not held jobs identical to those visited during their EBCE experience, former EBCE students did indicat that the EBCE program had a positive effect on their preparetion for jobs. They feel that their ability to communicate and to get along with people are the most valuable skills they gained from participation in the EBCE Program. They suggest expanding the number and variety of experience sites, as they regard that as the most valuable aspect of EBCE.

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Section 5

## Formative Evaluation

A major component of EBCE evaluation (called <u>formative evaluation</u>) involved the assessment of program components to insure that every component worked as well as possible, both in isolation and as it meshed with other components. It was a process which sought information to answer the questions: Is it necessary? How good is it? How can it be improved?

Results mative evaluation of the AEL/EBCE Program were designed to have an impact on the audiences served (project director, program developers, and operational managers), timelines of information, and program decision-making. Formative evaluation focused its attention -on three major areas: the AEL/EBCE project, the Kanawha County School System (KCSS) EBCE project, and a comparison of the two projects.

A set of formative evaluation questions relating to the uniqueness of each project and the commonalities of both projects were delineated. Procedures were established to provide data relating the ach question. This section the report presents each question and the major results related to the evaluative investigation of each particular question.

#### Formative Questions

The first seven questions are related to the EBCE delivery system, and the next two questions are related to the impact of the program on students. The next four questions are related to implementation and student recruitment/orientation, and the last four questions are related to experience sites in the community.

<u>Questio</u> <u>1</u>. Do learning coordinators (LC) have all the information needed to complete a student's folder?

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Answer 1. Almost every item specified on a Student Folder Checklist

was included in students' folders at AEL and KCSS. It appeared that learning coordinators' student folders were for the most part, quite complete. Even where items were missing, e.g., transcripts, there appeared to be a good reason for their absence - lack of need for these data except on a periodic basis.

Items which were most frequently missing from student folders were Career Guides, Studen Evaluation Forms, and Site Visit Reports. It is possible that these missing data were of limited value to the LCs, because they often obtain oral feedback from students and employers; however, the items may be of substantial value to evaluators and EBCE replicators.

It shoul also be noted that there was no consensus as to what "must" be in a Student Folder. The checklist generated by the Evaluation Unit was an attempt to standardize the investigation procedure. In one check of a sample of folders, there were four items which were found in all folders, but the items were not listed on the checklist. Hence, the investigned documented what was contained in the student folders, erather than at the item to judge whether or not the folders were complete.

Question Now many students leave the EBCE program during the school year (er o return to high schools cm to drop out of school) and why do these students leave?

Answer 2. A check of student records at AEL indicated that 10 of 84 students left EBCE wring the school year. Five of these 10 students were enrolled in EBCE for about one week (basically during student orientation) and (the were enrolled one complete semester. Of the five students enrolled about one week, two had transportation problems, one had money problems one left to get married, and the other felt that there

was not enough structure or in-depth courses. Of the five students enrolled one complete semester, two wanted to be with their original peer group, one had transportation problems, one wanted advanced courses, and one got married.

A check of student records at KCSS indicated that 13 students left EBCE during the school year. Five students left EBCE after five weeks or less, one left after two months, one left after three months, three left after one semester, and three left after about six months. Of the five students who departed very quickly, two wanted to return to their classes, one had a money problem, one didn't like going to job sites, and one just quit coming to school. The two-month enrollee had a health problem, and the three-month enrollee wouldn't go to experience sites. Of the three students enrolled one semester, one left EBCE for health reasons, one wanted a college preparatory curriculum, and one had a money problem. Of the three students enrolled about six months, two had a health problem, and one simply quit school.

Question 3. Are students satisfied that their needs and interests are accurately reflected in their experience site placements?

Answer 3. Utilizing the Student Perceptions of Experience Site formative evaluation questionnaire, it was found that at AEL the great majority (83%) of students returning questionnaires indicated that the experience sites where they had just completed placements were ones that they had previously selected on Experience Site Selection forms. While placed at experience sites, many responding students (49%) stated that they "participated (in activities) a great deal," and 28% thought that they had "observed and participated about equally." (Thirteen percent indicated that they had "observed mostly" but very few (2%) indicated that they had "loafed mostly."

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Most students (62%) estimated that their resource persons spent 51-100% of their time with them. (Forty-four percent of student respondents estimated that their resource persons spent at least 76% of their time with them.) The most common overall impression student respondents had concerning their resource persons was "liked very much" (69%) and "liked some" (20%). Only four, percent of all student responder cated any dislike for their resource person. Student respondents most frequently described their experience site resource persons as "very helpful" (66%), "always available" (48%), or "frequently available" (27%), "very warm" (37%) or "warm" (38%), "very interested in me" (32%) or "much interested in me" (25%), and "very excited about his / her work" (32%) or "somewhat excited about his / her work" (42%).

Comments made about experience sites tended to be of a general nature and positive in content. Of a total of 144 comments made by students, 121 were positive, 21 were negative, and two were mixed or neutral in content. The two comments most frequently mentioned related to a positive feeling about their site placements (42 mentions) or resource persons (40 mentions).

<u>Question 4</u>. What is the comparability in processes between AEL/EBCE learning coordinators and KCSS learning coordinators in terms of duty performance?

Answer 4. At both AEL and KCSS, learning coordinators appeared to be developing and evaluating student Activity Sheets when not engaged in sime visiting. They seem to have a good relationship with their students which is rather informal, and they are fairly tolerant of the high number of interruptions of their activities which occur. Many interactions occur between students and their learning coordinators, as they are in close proximity. Students seem to feel free to interrupt their learning coordinator when necessary.

When a student goes to another part of the building at KCSS/EBCE, he/she must check out with his/her learning coordinator who must fill out the appropriate form each time this occurs. Several school activities (i.e., signing up of teachers for faculty baseball team, picture-taking for Board of Education film, selling candy and announcements) often interrupt the flow of activities. This is not the situation at AEL.

At KCSS/EBCE no scheduled appointments were noted, while at AEL/ EBCE students were scheduled for appointments with their LCs. At AEL's EBCE students tend to meet with their LCs for 15-45 minutes at the beginning of the school day, while at KCSS/EBCE students usually meet with their LCs more frequently but for briefer periods on an "asneeded" basis.

The data gathered on the comparability of processes indicate that the students at KCSS/EBCE and AEL/EBCE projects exhibit similar behavior patterns during school. However, the following differences in the two EBCE programs may be noted;

- a) Students tend to arrive earlier and stay later at KCSS/EBCE than at AEL/EBCE.
- b) AEL/EBCE students frequently engage in group activities, whereas in the KCSS/EBCE program, there are fewer interactions among students.
- c) Some KCSS/EBCE students attend formal structured classes; while

most AEL/EBCE students de not.

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I) The "in-house" days at KCSS/EBCE are more academically oriented, while "in-house" days at AEL/EBCE tend to be more socially oriented.

Question 5. What are the criteria for assigning actual credit value to student products?

Answer 5. Creidt and grading procedures used by the learning coordinators appeared to incorporate the guidelines presented in the Basic Procedures Manual, but seem to be much more detailed. However, three of the four criteria most often cited by LCs in determining the value of an activity (i.e., quality of a product, time and effort involved in completion, work handed in 'on time' vs. 'late', and student's ability level) are somewhat subjective in nature. Nevertheless, it seems that they should all be taken into consideration in the grading process.

Question 6. What AEL/EBCE Program components, if any, did Kanawha County School System find necessary to add/delete/revise?

Answer 6. In preparing a Student Activity Sheet, KCSS learning coordinators found Program Area Descriptors to be of most help to them. However, neither of the learning coordinators found any of the sources very helpful. The guide to in-house materials found in the Cross Reference Catalog (CRC) was felt to be least helpful; both learning coordinators found them not helpful at all. Learning Guides. Core (gtandard) Activity Sheets, and the CRC were also believed to be of little or no help.

Both learning coordinators indicated that occasionally it was difficult to locate information needed to plan student activities.

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indicated the following as reasons for this condition existing:

- a) Often the CRC was inaccurate or incomplete;
- b) Not enough copies of some source materials were available; and
- c) Persons ordering core material were not familiar enough with the subject matter to order.

One learning coordinator felt that various procedures and duties were adequately documented in the Need, Rationale, Procedures (NRPs) Manual; the other one indicated that the NRPs has much too much on some things and not enough on others. The LC also indicated that more accuracy, better organization, correct grammar, and more sophistication in writing were needed modifications.

One learning coordinator indicated that all information sources should be updated and checked for accuracy, spelling, grammar, organization, etc. The other learning coordinator felt that the CRC should be revised to correct errors and include appropriate materials. She felt some core materials needed to be expanded to include more variety of ability levels and new and updated materials. She also felt that "mo text" items should be eliminated from the CRC.

In summary, KCSS/EBCE has not changed or deleted program components. They have added resource materials above and beyond core materials in an effort to personalize resources and meet the students' abilities.

Question 7. What personnel, different from AEL/EBCE, does a school system require for program operation?

Answer 7. The Director of the KCSS/EBCE Program and the learningcoordinators were queried throughout the year about personnel needs required for successful program operation. Their comments indicated

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that a school system ideally needed a county coordinator (assuming more than one school was involved), back-up learning coordinators as substitutes during occurrences of illness, accidents, etc., and a full-time community liaison person to interact with site personnel and help in the development and analysis of experience sites.

Question 8. What are student perceptions of experience sites?

Answer 8. Most of the KCSS/EBCE students surveyed seemed satisfied with the EBCE Program and with their experience site placements, although the majority of them also perceived that there was need for improvements. Most students had positive or neutral responses toward all the site placements they had had, However, positive responses to a site may be a function of: 1) the personality of the resource person; 2) the variety of activities available; 3) the opportunity for hands-on experience; and/or 4) the congruence of a student's interests and aptitudes with opportunities for career exploration available at the site.

The majority of responding AEL/EBCE students (55%) felt that while they were at experience sites they were treated most like employees. (Thirty-four percent indicated that they were treated most like students, and 11 percent felt that they were treated most like guests.) Most student respondents rated their experience sites as "excellent" (39%) or "above average" (31%), while a total of only 4% rated their experience sites as "poor" and 2% as "very poor".

The data appeared to be quite positive in terms of students' perceptions of experience sites. While there are instances of negative student reaction, it must be mentioned that students are enrolled in a program which does not function totally in the confines of a

traditional school setting. Instead, they associate with people having various personality characteristics and employment responsibilities. Perceptions are a function of interpretations, which are related to the environment in which the interactions occurred. Nonetheless, students' perceptions of experience sites and of resource persons were still very positive.

Question 9. How does the typical day of a KCSS/EBCE student differ from an AEL/EBCE student?

Answer 9. The data gathered indicate that the students at KCSS/ EBCE and AEL/EBCE projects exhibit similar behavior patterns during the school day. However, the following differences in the two EBCE programs may be noted:

- a) Students tend to arrive earlier and stay later at KCSS/EBCE than at AEL/EBCE.
- b) AEL/EBCE students frequently engage in group activities,
   whereas in the KCSS/EBCE program, there are fewer interactions
   ``among students.
- c) Some KCSS/EBCE students attend formal structured classes, while most AEL/EBCE students do not.
- d) "In-house" days at KCSS/EBCE are more academically oriented, while "in-house" days at AEL/EBCE tend to be more socially oriented.
- e) At KCSS/EBCE no scheduled appointments with students were noted, while at AEL/EBCE students were scheduled for appointments with their learning coordinators.
- f) At AEL/EBCE students tend to meet with their LCs for 15-45

minutes at the beginning of the school day, while at KCSS/EBCE students usually meet with their LCs more frequently but for briefer periods on an "as-needed" basis.

<u>Question 10</u>. What are the relative effects of the different methods used to acquaint students with EBCE?

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Answer 10. Analysis of recruitment questionnaires strongly indicated that the objectives of recruitment and orientation were met at AEL/EBCE. However, some recruitment methods (e.g., ads in media, assemblies, newspaper articles, booths at schools) seemed to have been relatively ineffective as perceived by students.

The exposure tour taken by AEL/EBCE students was of some interest and seemed to have been of value; students indicated that they would have been interested in seeing sites in different occupational fields rather than just one site. Students did not seem to have enough information regarding the purpose of the Program Outline and the Program Area Descriptor, but this knowledge may not have been necessary for them to have had during orientation.

Almost all AEL/EBCE students (52 of 63) believed all of the objectives which the staff thought were important for orientation had been accomplished. Forty-five thought that there was nothing about orientation that they would change; of the 17 who wanted changes, there was little agreement regarding what should be changed.

Students found out about EBCE in a variety of ways, although most (40 out of 63) believed that they had found out about the Program from only one or two sources. The four most successful means of publicizing the program were through former EBCE students, through pamphlets dis-

tributed at the schools, through letters, and through high school counselors. Based on the memory of students recruited for this school year, there was little difference in effectiveness between former students and pamphlets or between letters and counselors, although there was some difference in effectiveness between the leading two recruitment methods (friends who were former students and pamphlets) and the next most successful (letters and counselors). Most AEL/EBCE students believed that the program staff did a good job of describing the EBCE program to the public.

Analysis of data collected on KCSS/EBCE orientation indicated that recruitment objectives were met. A number of students and an LC suggested alternative recruitment methods which might be utilized in future recruitment efforts. Several students also made suggestions regarding changes in orientation, but no particular trend emerged here. As at AEL/EBCE, KCSS/EBCE students did not seem to have enough information regarding the Program Outline and the Program Area Descriptor, but, again, this knowledge may not have been necessary for them to have had during orientation.

Question 11. Why do students choose to participate in EBCE? <u>Answer 11</u>. At AEL/EBCE over 40% of the students surveyed stated that they chose to participate in the EBCE program because they wanted to learn about jobs, careers, and the world of work in general. About 25% of the students also mentioned that they chose to participate to "get out of" the traditional school system. Other frequently cited reasons were "help with career decision-making" (15%) and "work experiences that will help in the future" (6%).

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Students choosing to participate in the program seemed to be individualistic, independent persons who were "turned off" by the traditional school system but were also interested in learning about the world of work in a setting which makes allowances for individual differences and provides them with more opportunities to demonstrate responsibilities and independence.

These results appeared to be duplicated at KCSS/EBCE. Almost 50% of the KCSS/EBCE students surveyed joined the EBCE program to learn about the world of work and/or to obtain help in career decision-making. About one-third of the KCSS/EBCE students joined the program because they were "turned off" by traditional classroom activities.

Question 12. What is the comparability of attendance between KCSS, AEL, and traditional schools?

Answer 12. Total attendance rates in the KCSS/EBCE and AEL/EBCE programs during October through December, 1974 were found to be very similar: 89.8% at AEL/EBCE and 88.6% at KCSS/EBCE. These rates were highly similar to the 89.9% total attendance rate for all Kanawha County high schools in 1973-74. In both EBCE programs, attendance rates were at their lowest during December, but the reason for this is not known.

The breakdown of AEL/EBCE attendance data by students' home high school indicated that attendance rates of students from different high schools vary greatly between schools and within schools. Students from Charleston Catholic High School and South Charleston High School had the highest attendance rates for the entire period (95.9% and 94.3% respectively). Differences in attendance rates may be partially due to the transportation problems experienced by students who live

farthest from the EBCE site, since most of these students formerly attended schools which were 15-20 miles away. The local text book controversy may also have contributed to the differential attendance rates.

Question 13. What technical assistance does KCSS require from AEL in implementing EBCE?

Answer 13. Technical assistance was provided by AEL to KCSS throughout the 1974-75 school year. The major portion was at the beginning of the year and then for specific tasks throughout the year. Technical assistance was provided to KCSS in the following areas: 1) development of recruitment strategies and recruiting students; 2) development and/or formation of a goal and evaluation structure; 3) administration of evaluation instruments and test interpretation; 4) participation occasionally at weekly staff meetings to discuss program related items; 5) the obtaining of site placements for students; and 6) consultations on program management and operations.

However, it was felt by KCSS and AEL personnel that there were certain areas in which technical assistance could have been provided or provided in greater depth. Technical assistance would have been useful in development and analysis of sites and in writing Learning Guides. More technical assistance in integrating the two curriculum systems (KCSS/CHS and AEL/EBCE) would have been helpful. Finally, additional technical assistance in test interpretation would have been useful.

Question 14. What are the second persons of EBCE students?

perceived the KCSS/EBCE and AEL/EBCE students in a very positive manner. It appears that the students were performing adequately and resource persons were satisfied with the students' behaviors. About 95% of the employers' ratings of students' personal qualities were of a positive nature. Students were usually rated highest on friendliness and courtesy and lowest on exercising good judgment, reporting to the site on time, or working neatly and accurately.

Question 15. How does KCSS handle experience site maintenance?

Answer 15. Many of the experience sites utilized by KCSS/EBCE were originally developed and analyzed by AEL/EBCE during the preceding years. Consequently, when KCSS/EBCE began operation, they initiated site placements through AEL/EBCE. AEL/EBCE maintained these experience sites through resource person workshops, through telephone contacts, and through the Community Advisory Council.

However, KCSS/EBCE-did develop several experience sites which were in close proximity to Charleston High School where the KCSS/EBCE program operated. The Director of the KCSS/EBCE program did all site development and analysis, and liaison and site maintenance activities.

Question 16. Are there attitudinal differences between those experience site personnel involved with AEL versus KCSS?

Answer 16. The data indicated that most resource persons sampled perceived the AEL/EBCE and KCSS/EBCE students in a very positive manner. It appears that the students were performing adequately and resource persons were satisfied with the students' behaviors.

Most of the students surveyed seem to be satisfied with the EBCE program and their e site placements, although the majority of

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them also perceive that there is room for improvements. Most students had positive or  $m_{\rm eff}$  all respons to the all the site placements they had had.

Thus, it is and d that there were iso attitudinal differences between those sites involve with AEL versus RCSS students. It should also be pointed out tha models/EBCE and AEL/EBCE students utilized to be same experience sites in many cases. Consequently, many employers were is very concerned about the students' origins (in terms of whether they were AEL or KCSS students), but only about their interest, conduct, and performance while at the experience site.

Question 17. What differences occur in experience site utilization between students involved in AEL versus KCSS?

Answer 17. During the period from September, 1974 through February 1975, KCSS/EBCE students utilized 38 joint experience sites and all KCSS/ EBCE exclusive sites. On the average, experience sites where KCSS/EBCE students were placed (exclusives and non-exclusives) were used 2.14 times, and each site placement averaged 14.90 days in length.

During the same time period, AEL/EBCE students used 79 experience sites. Experience sites where AEL/EBCE students were placed (all nonexclusive) were used an average of 1.08 times, and each placement averaged 17.77 days in length. The difference in the extent of site utilization between the two programs is probably due to the greater number of sites developed by AEL/EBCE; it is also interesting to note that in length of placement both programs proved to be quite similar.

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Section 6

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### Summary, Corclusions, and Recommendations

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#### Summary

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The Appallachia Educational Laboratory's (AEL) Experie: Assed Career Education (EBCE) Program has been in existence for three years. Originally, the project was funded by the United States Officer of Education (USOE), later by the National Institute of Education NIE). The directive from USOE was to develop a community-based altermative career education program for high school seniors.

The first year of operation of the AEL/EBCE Program was devoted to the development and trial of key components of the AEL/EBCE model. The project began operation with 22 students in the fall and recruited 23 more students in January. There were 35 experience sites originally participating and another 45 sites were developed and analyzed.

The second year of operation was devoted to the refinement of all system components so that by June, 1974 the program would be stabilized. into an integrated, transportable product. The project started the second year with 44 students in the fall and recruited 44 more students in January. At that time 80 experience sites were participating. During the second year approximately 40 more sites agreed to participate civing a total of about 120 experience sites.

The third year of operation of the AEL/EBCE Program was spent in refinement of all sub-systems and materials, in preparation for the forthcoming training and implementation cycle of the EBCE program. There were 74 students enrolled at the end of the year and 59 of these were graduating seniors. The number of experience sites was expanded to about 145. Randomly-selected experimental and control groups were utilized to evaluate the effects of program participation. A high school in the

local Ranawha County School Wystem (20035) also field-tested the EBCE program during the 1974-75 school year.

Descriptic. of Student Populations

There were five distinct groups of students which contributed to the evaluation of the EBCE program in FY*75. Three of the five groups participated in EBCE and two groups were identified as controls. The five groups of students were:

- El: Volunteer students who were randomly assigned to the AEL/EBCE Program.
- 2: Volunteer students who joined the AEL/EBCE Program under nonrandom conditions.
- El: Volunteer students who joined the KCSS/EBCE Program at Charleston High School under non-random conditions.
- Cl: Volunteer students who were randomly assigned to the control group and remained in their home high schools.
- C2: Volunteer students who were initially randomly assigned to the AEL/EBCE Frogram but subsequently elected to remain in their home hims schools and volunteered to serve as nonrandomly selected controls.

#### Evaluation Design

Quesciphinaires and standardized tests were administered to all students to establish the effect of the AEL/EBCE Program on academic, attitudinal, and maturational variables. The Student Information Questionnaire (SIQ), an instrument constructed to provide baseline demonspheric data, was administered to all groups at the beginning of the school year. The Comprehensive Tests of Basic Skills (ITBS),

a shandard zed to st containing readil comprehension, arithmetic concepts, and arithmetic applications shotests, was used with all five groups in a pre-post fashion to as: s basic academic performance. The Career Maturit Laventory (CMI) a standardized test containing a career attitude scale and subtests of several areas of Career-related competencies was administered as a costest to groups El, E2, Cl, and C2 and as a pretest and posttest to group Kl. The Assessment of Student Attitudes (ASA), an instrument to assess students' attitudes and opinions about their learning environments, was administered as a posttest to all five groups. Parents, employers at experience sites, and former students (graduates) were also questioned to assess other impacts and effects of AEL/EBCE Program involvement. A univariate analysis of variance are correlated to evaluation data was analyzed utilizing tabulations and descriminive evaluation data was analyzed utilizing tabulations and descriminive summatice.

#### Summative Findings

The impairs and effect of the EBCE program on various respondent groups was demormined by testing a number of hypotheses. Appropriate statistical stalyses were conjusted to test the main effects associated with each opposis.

Students. A correlated totest on pretest and posttest CTBS scores indicated that El students did not show increased mastery in basic academic skills. Analysis of variance performed on CTBS pretest scores of groups El and Cl indicated equivalency (negating the ideal for sharpsis of revariable techniques) between the two groups. Analysis of variance performed on CTBS posttest scores of groups El and Cl also indicated

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no significant differences. Hence it was concluded that in basic amademic skills the El students had performed as well as the Cl students in traditional high school .

Analysis of variance for statest CMI Competency subtest scores indicated that El students did not acquire significantly greater mastery than Cl students in the career knowledge areas as measured by the five competency subtests. However, analysis of variance of posttest CMI Attitude Scale scores indicated that the El students did acquire significantly greater (p  $\langle .02 \rangle$  career tecturity than comparable Cl students enrolled in traditional high schools.

The posttest scores on the ESA were also treated by analysis of variance to determine if differences of attitudes toward learning environments exacted between the EL and CL students. Signufficant differences (ranging from p <.0001 t P(1.0067) were found for each of the four scales of the ASA and for the composite score. These tesults inducated that the EL students had signufficantly more positive motivudes toward learning environments that CL students.

A conrelated to set was performed on the pretest and posttest CTBS scores of KL student: to determine if they had acquired increased mastery in the basic academic skills. The results indicated that KL students, did not show increased mastery in the basic academic skills.

Correlated t-tests were also performed or the pretest-positiest CM Attitude Scale and Competency Test scores of all stadents to determine if they had equired increased mestery in career knowledge areas and if they had acquired increased career maturity. The mesults indicated that they showed no significant tains in career knowledge, as measured by the five CMI Competency subtests, over the school year. However, the

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Charleston High School students enrolled in their own EBCE program did acquire increased (p .10) career maturity.

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Descriptive statistics were utilized to determine if Kl students, had positive attitudes toward their learning environment. Analyses of posttest ASA subscale scores and the composite score indicated that the Kl students did possess positive attitudes toward various aspects of the educational system and toward the total learning environment.

Extents. A questionn size was mailed out to a sample of parents of EECE students to assess their attitudes toward the EECE program. Most parents were very positive towards all appects of the EECE program. All parents were enthusiastic about the amount of opportunity the career education program provided for bearsing about occupations. Almost all (95%) parents thought that their child liked EBCE much between than past school experiences and indicated that they would allow their child to participate in EBCE if they had this conside to make again. Almost 85% of the parents thought that CBCE had had a good effect on helping their children in the formation of career plans. Parents also mentioned that they had noticed positive changes in their children that might be attributable to participation on an the EBCE program (e.g., the students became more mature, and the of the endoy school more).

<u>Amployers</u> is mple of the persons site resource persons and contact persons were interviewed to determine their attitudes toward the EBCE program. Most employers were very receptive. They complimented EBCE strengths and offered suggestions for program improvement. Almost 84% of the employers rated the EBCE program is being moderately effective to very effective, and almost 84% selleved that their company would continue to participate in the EBCE program in the coming years.

Eowever, employers felt that there should be closer supervision of experience site activities by the EBCE staff, that there should be a better matching of students and experience sites, and that communication between experience site personnel and EBCE staff should be improved.

Graduates of EBCE. A follow-up study of the students who graduated from EBCE in 1973 and 1974 was initiated by AEL and the Educational Testing Service (ETS) to assess their attitudes toward learning environments (if students) or toward job satisfaction (if employed). Of the Ill soudents contacted from the total of 128 graduates, 34 graduated in 19 3 and 77 graduated in 1974. Analysis of the data indicated that almost half of the EBCE graduates are now working full-time, and slightly more than one-third are now full-time students. Of the total sample, over 60% reported no difficulty with obtaining employment. The most frequent reason for being unable to obtain employment related to the poor job market or to the lack of qualifications for jobs in which they were interested. Of those participating in educational or training programs, 75% were enrolled in four-year colleges or universities. More graduates continuing their education were studying in the areas of medical and biological sciences, including agriculture and forestry, than any other category. Over 72% of the graduates reported that they were satisfied with their educational program.

When asked about their attitude towards their EBCE experiences, the aspect they liked most related to work experiences at sites. When asked if their time spent in EBCE had had a positive, negative, or no effect on their preparation for further education or jobs, more than 80% indicated a positive response for both categories. However, their first jobs after graduating from EBCE did not closely relate to their

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EBCE experience. The graduates felt that their ability to communicate and to get along with people were the most valuable skills they gained from participation in the EBCE program.

#### Formative Findings

The results of formative evaluation of the EBCE program were designed to have an impact on various audiences and program decision-making. Formative evaluation focused on the AEL/EBCE Program, the KCSS/EBCE Program, and a comparison of the two programs. Results to a set of formative evaluation questions were obtained throughout the school year. The questions related to the EBCE delivery system, the impact of the program on students, implementation and student recruitment/orientation, and experience sites within the community.

EBCE Delivery System. A check of students' folders indicated that learning coordinators did have sufficient information to complete a student's folder. However, items missing from folders usually were of limited value to learning coordinators. A check of student records also indicated that hearly 50% of the EBCE dropouts occurred during the first week or two of school. The principle causes appeared to be related to transportation problems, money problems, or a desire to return to their original peer groups. An investigation was conducted of students' degree of satisfaction that their needs and interests were reflected in their experience site placements. It was found that over 80% of the students had just completed placements which were previously selected on Experience Site Selection forms.

When comparing the processes of the AEL/EBCE and KCSS/EBCE learning coordinators in terms of duty performance, it was found that the processes were very similar. The most notable difference was that AEL/EBCE

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students were scheduled for appointments with their learning coordinators while the KCSS/EBCE students met with their learning coordinators on an "as needed" basis. Credit and grading procedures within the two EB.E programs appeared to incorporate the guidelines presented in the EBCE Basic Procedures Manual. Although AEL and KCSS operated the program in two different environments, KCSS did not change or delete any program components. They did add additional resource materials in an effort to personalize resources and meet the students' abilities. While KCSS did operate their EBCE program with just a Director of Operations and two learning coordinators, their comments indicated that a school system ideally needed a county coordinator (assuming more than one school was involved), back-up learning coordinators, and a full-time community liaison person to interact with site personnel.

Program Impact on Students. Both AEL/EBCE and KCSS/EBCE students perceived their experience site placements in a positive manner. Although KCSS/EBCE students had no negative responses toward their experience site placements, the majority of them indicated that there was need for improvements. Most AEL/EBCE students (70%) rated their experience sites as "excellent" or "above average."

Data collected at the AEL/EBCE and KCSS/EBCE sites indicated that the students exhibit similar behavior patterns during the school day. However, "in-house" days at KCSS/EBCE are more academically oriented, while "in-house" days at AEL/EBCE tend to be more socially oriented. AEL/EBCE students frequently engage in group activities, whereas there are fewer interactions among KCSS/EBCE students. Some KCSS/EBCE students attend formal structured classes, while most AEL/EBCE students do not.

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Implementation and Student Recruitment/Orientation. Data obtained from recruitment questiconaires indicated that some recruitment methods (e.g., ads in media, assemblies, booths at school) seemed to be relatively ineffective. The four most successful means of publicizing the program were through former EBCE students, through pamphlets distributed at the schools, through letters, and through high school counselors. At AEL/EBCE over 40% of the students surveyed chose to participate in the EBCE program because they wanted to learn about jobs, careers, and the world of work in general. Almost 50% of the KCSS/EBCE students surveyed joined the EBCE program to learn about the world of work and/or obtain help in career decision-making. Attendance rates in the KCSS/EBCE and AEL/ EBCE Programs during a three-month interval were found to be very similar: 89.8% at AEL/EBCE and 83.6% at KCSS/EBCE. These rates were highly similar to the 89.9% total attendance rate for all Kanawha County high schools in 1973-74. The major portion of technical assistance provided by AEL/ EECE to KCSS/EBCE was at the beginning of the school year and then for specific tasks throughout the year. This technical assistance was primarily in terms of recruitment and evaluation. More technical assistance in integrating the Charleston High curriculum and the AEL/EBCE curriculum would have facilitated implementation.

<u>Community Experience Sites</u>. Many of the experience sites utilized by KCSS/EBCE were originally developed and analyzed by AEL/EBCE, but KCSS/EBCE did secure several experience sites which were in close proximity to Charleston High School where the KCSS/EBCE program operated. AEL/EBCE maintained the jointly used experience sites and the Director of the KCSS/EBCE program maintained those experience sites used only by KCSS/ EBCE students. During a six-month period KCSS/EBCE utilized 38 joint

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experience sites and all KCSS/EBCE exclusive sites - an average of 2.14 placements per site with an average placement of 14.90 days in length. During the same period AEL/EBCE students used 79 experience sites - an average of 1.08 placements per site with an average placement of 17.77 days in length.

Employers at experience sites perceived the KCSS/EBCE and AEL/EBCE students in a very positive manner. About 95% of the employers' ratings of students' personal qualities were of a positive nature. Students were usually rated highest on friendliness and courtesy and lowest on exercising good judgment reporting to the site on time, or working neatly and accurately. It appeared that there were no attitudinal differences between those experience sites involved with KCSS/EBCE and AEL/EBCE students. Although many AEL/EBCE and KCSS/EBCE students utilized the same experience sites', many employers were not concerned about the students' originating high schoo's, but only about the interest, conduct, and performance exhibited by students while at the experience site.

#### Conclusions and Recommendations

Several conclusions can be reached as a result of the formative and summative evaluation activities during FY'75. The conclusions are as follows:

- a) The AEL/EBCE Program was very successful since it did successfully serve as an alternative career education program.
- b) The AEL/EBCE Program was`demonstrated to be an integrated, transportable product since it was successfully implemented in a local high school.

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c) The AEL/EBCE Program was demonstrated to be an enjoyable experience since it was positively received by students, employers, parents, and former students.

It is recommended that:

- a) A follow-up of graduates and control group students be done during FY'76. It is extremely important to follow these groups in order to obtain longitudinal data on the impact of participation in EBCE.
- b) A study be conducted of the characteristics possessed by and skills required of a learning coordinator in order to perform successfully in an EBCE program.
- c) A study be conducted which investigates the impact of the training of experience site resource persons, as it relates to interactions with students and resource persons' ability to implement the EBCE process.

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APPENDIX A

Student Information Questionnaire

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#### STUDENT INFORMATION QUESTIONNAIRE

#### Appalachia Educational Laboratory, Inc. Charleston, West Virginia

The Experience-Based Career Education (EBCE) Program is in need of certain information in order that a valid interpretation can be made of evaluative data. This questionnaire was designed to obtain some of the needed information. The information which you provide will not be identified with your name in published reports, but will be coded such that group information can be obtained. Although the information requested is highly important for a valid interpretation, feel free to omit any question which is personally objectionable.



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	Native American	• •			· · · · · ·	
1	U Other (specify)			· ·	¢	•
3.	What is your current gr	ade level (a	is of Septem	ber, 1974)?		
	10th grade		•		• .	•
••	· · ·			* . •		· · ·
	llth grade		· · ·	4 1 - 1		- , ,
· · · · · ·	12th grade		·· .	÷ •		• • •
4.	What is your birth date	?		-	· · · ·	
4	, <b>, -</b>			с. К	-	•
	MONTH	DAY	<del></del> * ,	YEAR	·	• • •
		n 12			•	
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	· · · · ·					
5. What	is your father's highest	level of for	nal educati	on comple	ted?	
<b></b>				ion compre		
L No	one			•••		· ·
E E	lementary School			s.		
so	ome High School				,	
° 🔲 H	igh School Graduate				• .	
	ome post-secondary (for e usiness school, trade or			unior col	lege,	• •
	ollege graduate (four-yea	r degree)			•	· ·
so s	cme graduate work	•		•		
	dvanced degree (specify)	· · · · · · · · · · · · · · · · · · ·	·	•		· · ·
6. What	is your mother's highest	level of form	mal educati	on comple	ted	
No	one					۲
, 🗋 E	lementary School	•				÷ ,
🗋 sa	ome High School	¢		•		• • • • •
Н	igh School Graduate					
	ome post-secondary (for e usiness school, trade or			junior col	lege,	••
	ollege graduate (four-yea	r degree)	• • •	· · · · ·	 	· · ·
Solution Solution	ome graduate work					
	dvanced degree (specify)					, , ,
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7.	What a	re your long-range goals? Check only one.
	🗌 i.	CLERICAL such as bank teller, bookkeeper, secretary, typist, mail carrier, ticket agent
	2.	CRAFTSMAN such as baker, automobile mechanic, machinist, painter, plumber, telephone installer, carpenter
	☐ 3.	FARMER, FARM MANAGER
,	4.	HOMEMAKER OR HOUSEWIFE
2. ¹	5.	LABORER such as construction worker, car washer, sanitary worker,
		MANAGER, ADMINISTERTOR such as sales manager, office manager, school administrator, buyer, restaurant manager, government official
	7.	MILITARY such as career officer, enlisted man or woman in the armed forces
	8.	OPERATIVE such as meat cutter, assembler, machine operator, welder, taxicab/bus/ or truck driver, gas station attendant
	9.	PROFESSIONAL such as accountant, artist, clergyman, dentist, physician, registered nurse, engineer, lawyer, librarian, teacher, writer, scientist, social worker, actor, actress
	☐ 10.	PROPRIETOR OR OWNER such as owner of a small business, contractor, restaurant owner
	<b>1</b> 1.	PROTECTIVE SERVICE such as detective, policeman or guard, sheriff, fireman
· r	12.	SALES such as salesman, sales clerk, advertising or insurance agent, real estate broker
	<ul><li>☐ 13.</li></ul>	7 SERVICE such as barber, beautician, practical nurse, private household worker, janitor, waiter
	14.	TECHNICAL such as draftsman, medical or dental technician, computer programmer
	15.	OTHER (specify)
	16.	DON'T KNOW
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8.	What do you expect to be doing one year after completing hi	gh scho	01?	··· .
	Working full-time	· .		
	Entering an apprenticeship or ca-the-job training progra	- -		· . · ·
	Going into regular military service or to a service acad	emy		•
	Being a full-time homemaker		•	
•	Attending a vocational, technical, trade or business sch	ool		
v si	Taking <u>academic courses</u> at junior or community college	•		c"
	Taking <u>termnical</u> or vocational subjects at a junior or c	ommunit	y college	<b>.</b> 14
а. ,	Attending a four-year college or university		. ·	
	Working part-time			
	Other (travel, take a break, no plans)			
9.	What is your major field of study?		t	
	General Curriculum			•
	Vocational Education Curriculum		· · ·	•
	College Preparatory Curriculum			
. • •	Other (specify)		1	·
: · .			· · · ·	· . · ·:
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Under FATHER, circle the one number that best describes the work done by 10. your father (or male guardian). Under MOTHER, cirlce the one number that best describes the work done by your mother (or female guardian). The exact job may not be listed but circle the one that comes closest. If either of your parents is out of work, disabled, retired, or deceased, mark the kind of work that he or she used to do.

(Circle one number in each column.)

Mother Father CLERICAL such as bank teller, bookkeeper, secretary, . 01 . . 01 typist, mail carrier, ticket agent . . . . . . . . CRAFTSMAN such as baker, automobile mechanic, machinist, painter, plumber, telephone installer, carpenter . . . 02 . 02 FARMER, FARM MANAGER . 03 . . . 03 HOMEMAKER OR HOUSEWIFE 04 . . . . 04 LABORER such as construction worker, car washer, 05 . . . . 05 sanitary worker, farm laborer . . . . . . . . . MANAGER, ADMINISTRATOR such as sales manager, office manager, school administrator, buyer, restaurant 06 . . . . 06 MILITARY such as career officer, enlisted man or 07 . woman in the armed forces . . . . OPERATIVE such as meat cutter, assembler, machine operator, welder, taxicab/bus/ or truck driver, 08 . . . 08 PROFESSIONAL such as accountant, artist, clergyman, dentist, physician, registered nurse, engineer, lawyer, librarian, teacher, writer, scientist, social worker, actor, actress . . . . . PROPRIETOR OR OWNER such as owner of a small business, . 10 . . . . 10 contractor, restaurant owner . . . . . . . . . PROTECTIVE SERVICE such as detective, policeman or SALES such as salesman, sales clerk, advertising or 12 . . . 12 insurance agent, real estate broker . . . SERVICE such as barber, beautician, practical nurse, private household worker, janitor, waiter . . . . . . 13 . . . 13 TECHNICAL such as draftsman, medical or dental 14 . . . . 14 technician, computer programmer . . . . 142 15 . . . . 15

OTHER

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•	2 a			
11.	What is your main reas	on for joining	this program?	
	-			·
· ·.	Dissatisfied with	last year's so	hool program	
	🗌 Want more informa	tion on careers	-	
		cion on careers		
· *	Want a more perso	nalized program	1,	i n
				· · · · · · · · · · · · · · · · · · ·
	I heard it's an e	asy program		
• •	Other (Specify)			
12.	What activities did yo	u participate i	n at school last year?	<b>)</b>
	1. School Newspaper			
	2. Drama Club		57. 	•
te de la contra de la	3. Chorus			
	4. Band or Orchestra		-	•
- -	5. Cheerleader 6. Team Sports			
	7. Individual Sports			, t 
	Other (Specify)		<u> </u>	
13.	How many school friend	s did von have	last year with whom yo	nu interacted
±3.	socially (outside of s			
			4	<i>:</i>
	None			
•	1 to 5 6 to 10			
	11 to 15	»		
	15 or more			•
14.	How many of your broth	ers and sisters	dropped out of school	L?
•	None			3
	One			1 
	Two	• •		· -
	Three	· .		-
	Four Five or More		•	
• . •				
				· · · ·
		, ,		
· · · ·				
		143		
· · · · · · · · · · · · · · · · · · ·		143		
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## APPENDIX B

## FY'75 Data Analysis Plan For

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## Internal Summative Evaluation

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## APPALACHIA EDUCATIONAL LABORATORY

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## EXPERIENCE-BASED CAREER EDUCATION

### FY'75 DATA ANALYSIS PLAN

#### FOR

#### INTERNAL SUMMATIVE EVALUATION

Ø

Joe E. Shively, Ph.D. Director of Evaluation

Evaluation Unit Experience-Based Career Education Appalachia Educational Laboratory, Inc. Charleston, West Virginia

February 28, 1975

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#### FY'75 Data Analysis Plan For Internal Summative Evaluation

#### Introduction

The <u>Data Analysis Plan</u> presented in this document summarizes the specific techniques and analytical procedures to be used by AEL in treating the data collected during the execution of the <u>Internal Sum-</u> <u>mative Evaluation Plan</u>. Since the external design has not yet been made available by the external summative evaluation contractor, this document makes no attempts to coordinate such activities at this time but merely delineates those analytical procedures pertinent to providing AEL with evidence regarding product effectiveness.

#### Groups

The analyses will be performed on data gathered from the experimental and control groups which were established during the institution of the pre-treatment recruitment selection procedures.

These groups are designated as follows:

- El Randomly selected new experimentals
- E2 Non-randomly selected experimentals.
- Cl Randomly selected controls
- C2 Non-randomly selected controls
- KL KCSS/EBCE students

Groups El and Cl were established in order that direct comparisons under experimental design conditions could be made. Groups E2 and C2 are comprised of various combinations of students (e.g., students from last year, volunteered as controls) and can be used for investigations under quasi-experimental conditions. Group Kl consists of

those students enrolled at Charleston High School in a nearly autonomously-operated EBCE situation.

#### Instruments

Data will be gathered from these groups through the administration of the following instruments:

1. <u>Student Demographic Data Questionnaire (SDQ)</u> - This instrument was constructed by the evaluation staffs of all four EBCE projects to provide common data on basic characteristics.

 <u>Comprehensive Tests of Basic Skills (CTBS)</u> - This is a standardized test of basic academic performance. The reading comprehension, arithmetic concepts, and arithmetic applications subtests were used.

3. <u>Career Maturity Inventory (CMI)</u> - This is a standardized test of career attitude and several areas of career-related competencies.

4. Assessment of Student Attitudes - This instrument assesses students' attitudes and opinions about their academic and career educa-

The SDQ was administered to all groups at the beginning of the school year to gather information on non-criterion variables. The CTBS will be used in a pre-post fashion to assess program effects. The CMI and the ASA will be administered as post-treatment instruments to groups El, Cl, E2, and C2 and in a pre-post fashion to the Kl group.

#### Primary Hypotheses

The following major hypotheses will be tested under experimental design conditions. All deal with one year effects of the AEL/EBCE Program:

 Experimental students (E1) will acquire increased (p<.10) mastery in basic academic skills.

2. Experimental students (El) will acquire significantly greater (p<.10) mastery in basic academic skills than control students (Cl) in a traditional high school.

3. Experimental students (El) will acquire significantly greater (p < .10) mastery in career knowledge than control students (Cl) in a traditional high school.

4. Experimental students (E1) will acquire significantly greater (p < .10) career maturity than control students (C1) in a traditional high school.

5. Experimental students (El)~will develop significantly more positive ( $p_{\zeta}$ .10) attitudes toward learning environments than control students (Cl) in a traditional high school.

#### Analyses

Statistical analyses have been selected to test the main effects associated with each hypothesis. These analyses are listed below and are numerically keyed to hypotheses.

I. Descriptive statist nd correlated t-tests on pretest and posttest scores of El group on CTBS.

2.a. Descriptive statistics of El and Cl pretest and posttest CTBS scores.

2.b. Analysis of variance on/pretest CTBS scores of El and Cl groups.

2.c. Analysis of variance or covariance (depending on 2.b.) on posttest CTBS scores of El and Cl groups.

3.a. Descriptive statistics of El and Cl posttest scores on CMI Competency Subtests.

3.b. Analysis of variance on posttest CMI Competency Subtest scores of El and Cl groups.

4.a. Descriptive statistics of El and Cl posttest scores on CMI Attitude Scale.

4.b. Analysis of variance on posttest CMI Attitude Scale scores of El and Cl groups.

5.a. Descriptive statistics of El and Cl ASA posttest ratings.

5.b. Analysis of variance on posttest ASA ratings of El and Cl groups.

In addition to the testing of main effects, it is possible to study other effects associated with each hypothesis. Such investigation could consider variables such as sex, grade level, attendance, presenting levels, and demographic data. These analyses will be factorial in nature, utilizing grade level, experimental condition, and achievement level as classification factors.

Analysis 1 tests the hypothesis that El students gain significantly in basic skills mastery. The 2 series of analyses are designed to test the significance of differential growth in basic academic skills by the El al Cl group. Analysis 2a describes the growth of the El and C. groups in basic skills. Analysis 2b tests the equivalence of the El and Cl groups at the beginning of the year and indicates the type of analysis needed in 2c. Analysis 2c tests the significance of the difference of increases in mastery of basic academic skills by the El and Cl groups.

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The 3 series of analyses test the significance of differences in El and Cl mastery of career knowledge. Analysis 3a describes the El and Cl posttest mastery of career knowledge. Analysis 3b tests the significance of differences in mastery of career knowledge by the El ar ( Cl groups.

The 4 series of analyses are designed to test the significance of differences of El and Cl career maturation. Analysis 4a describes the El and Cl groups on this measure. Analysis 4b tests the significance of differences in the career maturation of the El and Cl groups.

The 5 series of analyses tests the effect of the Career Education Program on student attitudes toward learning environments. Analysis 5a describes El and Cl attitude toward learning environments. Analysis 5b tests the significance of differences in El and Cl attitude toward learning environments.

#### Secondary Hypotheses

The following hypotheses will also be investigated as part of the data analyses associated with the implementation of the <u>Internal Summa-</u> tive Evaluation Plan:

Experimental students (Kl) will acquire increased (p<.10)</li>
 mastery in basic academic skills.

7. Experimental students (Kl) will acquire increased (p<.10) mastery in career knowledge.

8. Experimental students (K1) will acquire increased (p<.10) career maturity.

9. Experimental students (Kl) will acquire positive attitudes toward their learning environments.

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#### Analyses

Statistical analyses have been selected to test these secondary hypotheses. These analyses are listed below and are numerically keyed to hypotheses.

6. Descriptive statistics and correlated t-test on pretest and posttest scores of K1 group on CTBS.

7. Descriptive statistics and correlated t-test on pretest and posttest scores of Kl group on CMI Competency Subtests.

8. Descriptive statistics and correlated t-test on pretest and posttest scores of Kl group on CMI Attitude Scale.

9. Descriptive statistics of Kl group on ASA posttest ratings.

#### Tertiary Hypotheses

Parents, employers, and EBCE graduates will also be administered appropriate assessment instruments to determine their attitudes toward the EBCE Program (parents and employers) or toward learning environments or job satisfaction (graduates). The following hypotheses associated with these topic areas will be investigated:

10. Parents of EBCE students will have positive attitudes toward the EBCE Program.

11. Various levels of employers (i.e., resource persons, contact persons, or managers) will have positive attitudes toward the EBCE Program.

12. Graduates of the EBCE Program will demonstrate positive attitudes toward learning environments (if students) or demonstrate job satisfaction (if employed).

#### Analyses

Statistical analyses have also been selected to test these tertiary hypotheses. These analyses are listed below and again are numerically keyed to hypotheses.

10. Descriptive statistics of parental questionnaire.

11. Descriptive statistics of employer questionnaire.

12. Descriptive statistics of graduate questionnaire.

#### Additional Procedures

Other information not related to hypothesis testing will also be analyzed to provide descriptive information on the respondent groups. Additional hypotheses may result from analysis of the descriptive information. Nevertheless, descriptive statistics on demographic data will be obtained.



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APPENDIX C

# Comprehensive Test of Basic Skills

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Name of Instrument: Comprehensive Tests of Basic Skills¹ (CTBS)

- Rationale/Objective: The CTBS were designed to provide improved measurement of the extent to which individual students have developed basic academic skills. There are four levels of the tests with alternate forms for each level.
- Item Content: The CTBS battery booklet (Level 4) includes tests in four basic skills areas: reading, language, arithmetic, and study skills. The four areas are divided into 10 separately-timed tests, each utilizing a multiple-choice item format. The 10 tests of the CTBS and a brief description are as follows:
  - Test 1 Reading Vocabulary. This 40-item test provides a measurement of a student's ability to select the word that has the best meaning.
  - Test 2 Reading Comprehension. This 45-item test is composed of blocks of items which test the reading of such selections as articles, stories, poems, and letters.
  - Tes: 3 Language Mechanics. This 25-item test measures a student's ability to punctuate and capitalize.
  - Test 4 Language Expression. This 30-item test measures the correctness and effectiveness of expression.
  - Test 5 Language Spelling. This 30-item test measures the student's ability to recognize correct and incorrect spelling of wo s.
  - <u>Test 6 Arithmetic Computation</u>. This test consists of 48 items equally distributed among the four arithmetic operations: addition, subtraction, multiplication, and division.
  - Test 7 Arithmetic Concepts. This 30-item test measures the student's ability to recognize and/or apply the appropriate concept and technique; the ability to convert concepts from one form to another; the ability to comprehend numerical concepts and understand their interrelationships; and the ability to organize all facts in more complex problems.
  - Test 8 Arithmetic Applications. This 20-item test measures a student's problem-solving abilities.
  - Test 9 Study Skills Using Reference Materials. This 20-item test measures the ability to use reference materials - to locate various types of information and select the appropriate reference books for specific purposes.

Test 10 - Study Skills Using Graphic Materials. This 30-item test measures a student's ability to use graphic materials.

¹Comprehensive Tests of Basic Skills, Examiners Manual. CTB/McGraw-Hill, Del Monte Research Park, Monterey, California, 1968.

Administration Procedures: The CTBS-Level 4 may be completed by any student in grades eight through twelve. The CTBS total battery requires approximately 4¹/₂ hours (each test has a working time and time allotted for instructions). The instrument can be administered on an individual as well as a group basis. The complete CTBS battery or any subset of the 10 tests may be administered.

Scoring Procedures: The publisher furnishes a scoring key for hand-scoring or the answer sheets may be sent to the publisher for machine scoring. Percentile conversion tables are available in the manual.

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## APPEND'IX D

## Career Maturity Inventory

Name of Instrument: Career Maturity Inventory¹ (CMI)

Rationale/Objective: The CMI was designed to provide an inventory on career choice attitudes and on career choice competencies.

History of Development: The CMI formerly was entitled the Vocational Development Inventory (VDI). The Attitude Scale of the VDI was first administered in 1961-62. The CMI was published in 1963 and is a result of research and evaluation findings of the VDI and of additional career maturity research and definition.

- Item Content: The C11 provides two types of measures: the Attitude Scale and the Competence Test. The Competence Test contains five parts. The six parts to the CMI and their descriptions are as follows:
  - Attitude Scale. This is a measure of the feelings, the subjective reactions, the dispositions that the individual has toward making a career choice and entering the world of work. Five attitudinal clusters are surveyed: involvement in the career choice process; orientation towards work; independence in decision-making; preference for can exclusive factors and conceptions of the career choice gi' Russa

#### Competency Test.

Part 1 - Knowing Coursel' (pelf-upped sal) This we wides an investory of a student's ability to iss facility in self-appraisal.

Part 2: Knowing About Jobs (occupational information) This provides an inventory of the student's knowledge of the world of work.

Part 3: Choosing A Job (goal selection) This provides an inventory of the student's orientation to the world of work and how to progress in it.

Part 4: Looking Ahead (planning) This provides an inventory of the student's ability to plan for his/her future in the world of work.

Part 5: What Should They Do (problem-solving) This provides an inventory of the student's ability to solve problems which may confront him in pursuit of his career goals.

¹Crites, John O., Career Maturity Inventory Administration and Use Manual, CTB/McGraw-Hill, Del Monte Research Park, Monterey, Califòrnia. 1973

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- Administration Procedures: The CMI may be completed by any student in grades six through twelve (senior year of college for the attitude scale). The CMI can be administered in approximately 25 hours (each part takes approximately 20 minutes). The instrument can be administered on an individual as well as group basis. The complete CMI battery or any subset of the six parts of the CMI may be administered.
- Scoring Procedures: The publisher furnishes a scoring key for hand scoring or the answer sheets can be sent to the publisher for scoring. Percentile conversion tables are available in the manual.

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## APPENDIX E

## Assessment of Student Attitudes



Name of Instrument: Assessment of Student Attitudes¹ (ASA)

- Rationale/Objective: The ASA was designed to provide an instrument for the assessment of student attitudes toward traditional and non traditional learning env ronments.
- Item Content: The ASA includes 26 items which yield four subscale of the and a total composite score.
  - Subscale 1. This subscale consists of 7 items which measure attitudes toward education in general.
  - Subscale 2. This subscale consists of 5 items which measure attitudes toward school curriculum.
  - Subscale 3. This subscale consists of 9 items which measure attitudes toward school resources.
  - Subscale 4. This subscale consists of 5 items which measure attitudes toward school counseling.
  - <u>Composite Score</u>. The totality of 26 items measure overall student attitudes toward the learning environment.
- Administration Procedures: The ASA may be completed by any secondary school student. The ASA takes approximately 15 minutes to administary since the item order is randomized, the subscales cannot be administary separately.
- Scoring Procedures. A scoring sheet has been designed to facility to the nand-scoring of each item and the generation of subscale and opposite scores.

LKershner, K. M. and M. W. Blair. Assessment of Student Atty tudes Toward Learning Environments. Research for Better Schools, Ind., Philadelphia, Pennsylvania, April, 1975.

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# APPENDIX F

# Parent Opinion Survey

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APPALAGMIA EDUGATIONAL LABORATORY, ING.

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P. O. BOX 1348 CHARLESTON, WEST VIRGINIA 25325 304/344-8371

Your child has now participated in the Experience-Based Career Education (EBCE) program for one year. It is extremely important that we receive some information from you concerning your thoughts and attitudes toward the EBCE program. A similar questionnaire will be used by other projects throughout the country. Your responses are therefore an important part of a national attempt to evaluate the EBCE project.

Your response will be carefully coded so that confidentiality will be, preserved. None of the teachers or administrators of the EBCE program will see your questionaries. They will see a summary report of all the questionnaires.

If you have any questions or concerns about any of the items, please feel free to contact me at 344-8371. Please return the questionnaire in the enclosed envelope by May 23.

Thank you for again taking your valuable time to assist us in evaluating and improving the EBCE program.

> Joe E. Shively, Ph.D. Director of Evaluation Experience-Based Career Education

JES:fjc

Enclosures

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Sincerely,

#### Parent Opinion Survey

This survey is meant to give you an opportunity to express your opinions about the Career Education Program your son or daughter has been participating in. Most of the questions are to be answered on a scale of numbers from (1) to (5). The phrases at the top and bottom of each set of questions indicate what the scale means. A (1) may mean something like "Definitely No"; if you feel strongly that the answer to the question is No, then you should circle the (1) A (5) may mean "Definitely Yes"; if you feel strongly that the answer is Yes, then you should circle the (5) The numbers in between (2, 3, 4) indicate an opinion somewhere in between "Definitely No" and "Definitely Yes". Some scales have different phrases, but they all work the same way.

Read the phrase above the numbers so you know what the scale means, then read each question, and circle the number which is closest to your opinion. There are no right or wrong answers; your thoughts and feelings are the important things in this survey. The answers parents give will help determine how well the program is doing now and improve it in the future. Remember to circle a number for each item. Thank you for taking the time to fill out this survey.

#### Career Education Program

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#### Parent Opinion Survey

1. How well does the Career Education Program compare overall with the past school experiences of your daughter or son?

Much Worse		0	-	e Much Better
1	2	3	4	5

2. If you had it to do over again, would you want your son or daughter to participate in the Career Education Program?

Definitely						Defir	nitely
NO						YE	s
1	2 ⁻	· .·	3	4	•	5	

3. How well do you think your son or daughter likes the Career Education Program compared with past school experiences?

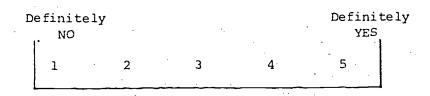
Much Worse		• · · • • • • •		•	Much Better	
1	. 2	3	- J	4	5	•

4. What do you think are the greatest weaknesses of the Career Education Program?

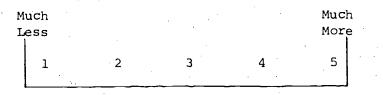
t,

What do you think are the greatest strengths of the Career Education 5. Program?

6. [°]Have you received enough information about your son's or daughter's progress in the Career Education Program?



7. In comparison with regular schools how much opportunity did the Career Education Program provide your daughter or son for learning about occupations?



8. What effect, if any, has the Career Education Program had on helping your son or daughter form career plans?

· · ]	Definitel	y .			Definite	ly
	Bad	-			Good	, .
	1	2	3	4	5 •	
	L			· · · · · · · · · · · · · · · · · · ·		- <b>I</b> .

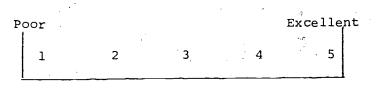
9. In comparison with regular schools, how much opportunity did the Career Education Program provide your difference or son for general learning?

Much		About the Same		Much More
1	2	3	4	\$5

10. In comparison with past experiences in regular schools, how motivated is your daughter or son to learn in the Career Education Program?

Much		About the		Much
Less		Same	v	More
1	2	3	4	5

11. How would you rate the approaches to learning used in the Career Education Program?



12. What positive changes have you noticed in your son or daughter that might be a result of participation in the Career Education Program?

What negative changes have you noticed in your son or daughter that might 13. be a result of participation in the Career Education Program? · · 14. How often does your son or daughter talk to you about what's going on in the Career Education Program? Almost Almost Daily Never 1 2 3 4 5 About how often have you had any contact with any Career Education Program 15. staff members? Almost Very Frequently Never 5 1 4 2 3 How many meetings have you attended during this school year where other 16. parents of Career Education students were present? 2 1 .3 4 or More None How would you rate the general quality of the Career Education Program 17. staff? Excellent Poor 3 4 5 2 1

How would you rate the business or community resources available in 18. the Career Education Program? Poor Excellent 5 1 3 2 19. How would you rate your overall relationship with the staff of the Career Education Program? Excellent Poor 2 3 5 ٦ 20. How would you rate the enthusiasm of the Career Education Program staff? Poor Excellent 2 3 5 1 What do you think of the occupational plans of your daughter or son? 21. There aren't any firm plans yet. a. The plans should be changed. b. | The plans seem to be good. c. We haven't really had a chance to discuss the plans. d. | What do you think your son or daughter will be doing a year after high 22. school? Working a. Attending some kind of college b. Going to a business or trade school c. d. | Military Other (please specify) e.



23.

Below are listed areas of possible importance for a student to learn. Please rate each in terms of how important you feel it is for a student to learn, and how well you feel the program is accomplishing each.

	How	Impo	ortar	nt Do	5	How	Eff	ecti	ve D	0
			l Thi			You	fee	l the	9	
	Lear	ning	g Isa	?			ject			
		•	÷	·			Acco			g 🐇
	ļ				<u> </u>		s Le	arni	_	
	Not	-		Hi	ghly	No				ighly
		or-		In	por-		fec~		Ē	ffec
Students learn to:	tar	nt		, ta	int	ti	ve		t	ive.
a. Perform specific occupational skills	۰ <b>L</b>	2	3	4	5	1	2	3	4	5
b. Be punctual and organize their time	1	2	3	4	5	1	· 2	3	4	5
c. Assume responsibility for themselves	1	2	3	4	5	1	2	3	4	5
d. Make decisions and follow through	- 1	2	3	4	5,	1	2	3	4.	5.
e. Communicate with others in a mature way	1	2	3	4	5	1	2	3	4	5
f. Be aware of more career opportunities	1.	2	3	4	5	. 1	2	3	4	.5
g. Work with others	1	2	3	4	5	1	2	3	4	5
h. Evaluate their own work	1	2	3	4	5	1	2	3	4	5
i. Perform basic academic skills	1	2	<b>3</b> .	4	5	. 1	2	.3	4	5
j. Think through and solve problems	1	2	3	4	5	1	2	3	4	5
k. Have a positive attitude toward self	1	2	3 .	4	5	1	2	3	4	5
1. Have a positive attitude toward work	1	2	. 3	4	່5	1	· 2	3	4	5
m. Have a positive attitude toward learning	·, 1 ·	2	- <b>3</b>	4	5	1	2	3	4	5
n. Prepare for further education	1	2	3	4	5	1	2	3	4	5
<ul> <li>Improve interpersonal and social skills</li> </ul>	1	2	.3	4	5	1	2	3	4	5
p. Other (please specify)	1	2	3	4	5	1	2	3	4	5

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How did you first hear about the Career Education Program? 24. - .... ۰. • . What kinds of students do you think benefit most from Career Education 25. Program? 170



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## APPENDIX G

## Employer Interview Instrument

171-



# EMPLOYER INTERVIEW INSTRUMENT

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#### Setting Up Appointment

- 1. Determine who should be called (contact person)
- 2. Phone and introduce self
- 3. Identify purpose of study
  - a. End-of-year evaluation
  - b. Program revisions FY'75
  - c. Provide project staff with information
- 4. Set up appointment

#### Interview Procedures

- 1. Introduce self
- 2. Review reason for study
  - Note: (Maintain a very re ed informal atmosphere
    - throughout the interview. The contact person

should be free to ramble if necessary.)

3. Record information that answers specific questions

plus any additional comments you feel are important.

#### Information

Name	of	Contact Person	, 		·	 , 
Name	ọf	Resource Person (i	f ary)			
Name	of	Company		:		

#### Questions -

- 1. Did the EBCE staff provide you with the necessary information
  - to help you direct students' activities at your site?

Yes____No____



Sometimes



٤.	Probe:		
	Did the EBCE staff usually show you the:		
	Student Activity Sheet(s)		\$
	Student Program Profile (Explain, if	necessary)	
	Type of products expected from studen	t.	2 2
	Explain reason for the particular pla	cement	e.
	rrovide you with feedback on student'	s progress	
2.	Which of the following supportive services		thers
2 •	at your site) provide for the Experience-B	, ¹	
	(EBCE) program students? (Check each appr		
		•	
	<u>्</u>	Occasionally	Seldom
	Do you talk about job opportunities?		• •
•••	Do you talk about the	a .	
	Do you talk about activities at your site?		· · ·
	Dó you tutor in an academic area?		· ·
	Do you evaluate individual students' assignments?		
	Do you assist students in non-		
	Do you supervise students to perform a specific job-related task at your site?		· · · · · ·
	Do you help plan student assignments?		
	Other (specify)		



ldom Never

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Researching from site materials

Actively performing site

Talking with other site

activities

personnel

Talking with me

Individual study

Other (specify)

•
1000
6.3

	Observing site activities		۰ 	<u> </u>	
	ţ	Frequently	Occasionally	Seldom	Never
	appropriate category.)				
3.	How do students spend their	time at your s	site? (Check	each	

Do you think the EBCE students have been interested in your site? 4. Don't know Yes No (Probe, if you think the contact person would like to continue

talking about this area.)

5. Based on the EBCE students placed at your site, do you feel these students were interested in the concept of EBCE?

Yes No Don't know

- How have employees at your site reacted to the EBCE students 6. placed at your site?
- How has top level management reacted to the EBCE students 7. placed here? •--

	8.	Have you been satisfied with the feedback that you $\mathrm{Fe}_{\mathcal{C}} \mathrm{Pi}_{\mathcal{V}}$ eq
	:	relating to what happens to the student after he leave your
		site? Yes No (Probe, if you can, )
i.		
;	9.	Do you think your company will continue working with the FBCE
		project during the next couple of years?
÷		Yes No Don't know
	10.	Based on the students and staff you've met, how $efflet \psi_{0}$
		you feel the program was?
	11.	Do you feel the program functioned as you were led $V^{\circ} V^{\circ} V^{\circ} V^{\circ} V^{\circ}$
		when you were recruited as an employer site?
		Yes No Don't know
	12.	What do you feel the strengths of the EBCE Program $p^{\infty} q / q$
÷		
	13.	What do you feel the weaknesses of the EBCE $\operatorname{Program}^{\hat{A}} \mathcal{M}^{\hat{\gamma}}$
	14.	To what extent has the EBCE Program had an impact of
		(Check each appropriate category.)
		No Some Much Impact Value of Impact No Some Much Don't Good Bat Don't
	. pe	Impact Impact Impact Know Impact y The t Know Impact Impact Strength Impact Impact Strength Impact I
	pe	nount of work erformed by egular employees
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• .	· · · ·	Impact	Impact			Impact		Don't Know
c.	Company hiring practices							رتي
Ġ.	Company training		* *					
	practices					<del></del>		
e.	Other possible impacts (List.)			•			:	
		•	:		5		، ب ب	
c.	÷ * *							
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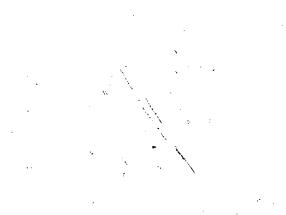


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## APPENDIX H

### EBCE Graduate and Dropout Questionnaire

In the EBCE Program (AEL)

From		· · · · · · · · · · · · · · · · · · ·		То	
	(month)	(уе	ar)	(month	) (year)
· · ·		,	n		•
	EBCE	GRADUATE AND	DROPOUT	QUESTIONNAIRE	
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a	Second Contac	t, if any:			<u> </u>
•			(month)	(day)	(time)
	Other Contact	s. if anv:	·		
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	· · · ·	• •	(month)	(day)	(time)
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•	Time of Inter	view:(mont	:h)	(day)	(time)
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	Name of Inter	viewer:	· · · · · · · · · · · · · · · · · · ·	· ·····	
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1. First, I'd like to know your marital status.

<pre>Married Separated Other:</pre>			Single						
<pre></pre>		1	Married						
Other: 			Separated			۰.			
<pre>2. With whom do you live? Parents Relatives Friend(s) Other 3. What is your main present activity? (CHECK ALL THAT APPLY.) Unemployednot looking for work Unemployednot looking for work Unemployednot looking for work Unemployedlooking for work Not work the student (taking at least 12 semester hours) Part-time student (taking less than 12 semester hours) Working part-time Working full-time (HF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) 4. Have you ever worked since you grar'ed from EECE?YesNo (IF "YES," ASK RESPONDENT QUESTION18; IF "NO," SKIP TO QUESTION 7.)</pre>	•	I	Divorced			an a a			•
<pre>Parents Relatives Friend(s) Other 3. What is your main present activity? (CHECK ALL THAT APPLY.) Unemployednot looking for work Unemployedlooking for work </pre>		(	Other:	···		 			in A
<pre>Parents Relatives Friend(s) Other 3. What is your main present activity? (CHECK ALL THAT APPLY.) Unemployednot looking for work Unemployedlooking for work </pre>	2.	With	whom do you live?	•			т., ^с .		
<pre>Friend(s) Other 3. What is your main present activity? (CHECK ALL THAT APPLY.) Unemployednot looking for work Unemployedlooking for work Unemployedlooking for work Housewife Full-time student (taking at least 12 semester hours) Part-time student (taking less than 12 semester hours) Working part-time Working full-time (IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) 4. Have you ever worked since you graf ded from EBCE? YesNo (IF "YES," ASK RESPONDENT_QUESTION18; IF "N"," ASK QUESTIONS 5-7 &amp; 19. 5. Were there any jobs you tried for but didn't get? YesNo (IF "YES" ASK RESPONDENT_QUESTION 6; IF "No," SKIP TO QUESTION 7.)</pre>	\$			•					
<pre>Alone Other 3. What is your main present activity? (CHECK ALL THAT APPLY.) Unemployednot looking for work Unemployedlooking for work Housewife Full-time student (taking at least 12 semester hours) Part-time student (taking less than 12 semester hours) Working part-time Working full-time (IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) 4. Have you ever worked since you graded from EBCE?YesNo (IF "YES," ASK RESPONDENT_QUESTION18; IF "N++," ASK QUESTIONS 5-7 &amp; 19. 5. Were there any job5 you tried for but didn't get?YesNo (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</pre>		I	Relatives				<i>i</i> e		
		]	Friend(s)						
<ul> <li>3. What is your main present activity? (CHECK ALL THAT APPLY.)</li> <li>Unemployednot looking for work</li> <li>Unemployedlooking for work</li> <li>Housewife</li> <li>Full-time student (taking at least 12 semester hours)</li> <li>Part-time student (taking less than 12 semester hours)</li> <li>Working part-time</li> <li>Working full-time</li> <li>(IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.)</li> <li>4. Have you ever worked since you gra?</li> <li>*ed from EBCE? Yes No (IF "YES," ASK RESPONDENT QUESTION18; IF "NN," ASK QUESTIONS 5-7 &amp; 19</li> <li>5. Were there any jobS you tried for but didn't get? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</li> </ul>	. 'i		Alone					-	
<pre>Unemployednot looking for work Unemployedlooking for work Housewife Full-time student (taking at least 12 semester hours) Part-time student (taking less than 12 semester hours) Working part-time Working full-time (IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) 4. Have you ever worked since you graffed from EBCE? YesNo (IF "YES," ASK RESPONDENT QUESTION18; IF "N**," ASK QUESTIONS 5-7 &amp; 19. 5. Were there any jobs you tried for but didn't get? YesNo (IF "YES" ASK RESPONDENT QUESTION 6; IF "N0," SKIP TO QUESTION 7.)</pre>		(	Other		•	-			
<pre></pre>	3.	What :	is your main pres	ent activity	? (CHECK A	ALL THAT	APPLY.)		
Housewife Full-time student (taking at least 12 semester hours) Part-time student (taking less than 12 semester hours) Working part-time Working full-time (IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) * 4. Have you ever worked since you gra?ed from EBCE?YesNo (IF "YES," ASK RESPONDENT, QUESTION18; IF "N")," ASK QUESTIONS 5-7 & 19 5. Were there any jobS you tried for but didn't get?YesNo (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)		[	Unemployednot l	ooking for w	ork				
<ul> <li>Full-time student (taking at least 12 semester hours)</li> <li>Part-time student (taking less than 12 semester hours)</li> <li>Working part-time</li> <li>Working full-time</li> <li>(IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.)</li> <li>4. Have you ever worked since you graded ed from EBCE? Yes No (IF "YES," ASK RESPONDENT, QUESTION18; IF "NA," ASK QUESTIONS 5-7 &amp; 19</li> <li>5. Were there any jobS you traned for but didn't get? Yes No (IF "YES" ASK RESPONDENT? QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</li> </ul>			Unemployedlooki	ng for work		·			
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<pre>Working part-time Working full-time (IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) 4. Have you ever worked since you graded define EBCE? Yes No (IF "YES," ASK RESPONDENT QUESTION18; IF "N(*)," ASK QUESTIONS 5-7 &amp; 19 5. Were there any jobs you tried for but didn't get? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</pre>		I	Full-time student	(taking at	least 12 se	emester 1	hours)		
Working full-time (IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.) 4. Have you ever worked since you graded ed from EBCE? Yes No (IF "YES," ASK RESPONDENT QUESTION18; IF "NO," ASK QUESTIONS 5-7 & 19 5. Were there any jobs you transformed for but didn't get? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)		]	Part-time student	(taking les	s than 12 s	semester	hours)		
<ul> <li>(IF RESPONDENT IS UNEMPLOYED AT THIS TIME, ASK #4.)</li> <li>4. Have you ever worked since you gra? ed from EBCE? Yes No (IF "YES," ASK RESPONDENT QUESTION18; IF "NA," ASK QUESTIONS 5-7 &amp; 19</li> <li>5. Were there any jobs you tried for but didn't get? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</li> </ul>			Working part-time	1		) 			• . •
<ul> <li>4. Have you ever worked since you graded in the there any jobs you transformed for but didn't get? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</li> </ul>	,		Working full-time	i					· .
<pre>(IF "YES," ASK RESPONDENT QUESTION18; IF "N^A," ASK QUESTIONS 5-7 &amp; 19 5. Were there any jobs you trand for but didn't gel? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</pre>	(IF	RESPOI	NDENT IS UNEMPLOY	ED AT THIS T	IME, ASK #4	1.) -			
<pre>(IF "YES," ASK RESPONDENT QUESTION18; IF "NA," ASK QUESTIONS 5-7 &amp; 19 5. Were there any jobs you trand for but didn't gel? Yes No (IF "YES" ASK RESPONDENT QUESTION 6; IF "NO," SKIP TO QUESTION 7.)</pre>	•			-			• •	•	
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THE FOLLOWING QUESTION SHOULD BE ASKED OF ALL STUDENTS WH. HAVE LOOKED FOR WORK. How much difficulty would you say you have had in getting work since you left 7. the EBCE program? No difficulty Some difficulty Much difficulty What kind of difficulty? (PROBE) (IF RESPONDENT SAYS HE/SHE HAS EVER WORKED SINCE LEAVING EBCE, ASK QUESTIONS 8 THROUGH 18. IF HE/SHE IS GOING TO SCHOOL, SKIP TO QUESTION 1 .. ) What kind of work are (or were) you doing? 8. RECORD ANSWER, THEN CODE ACCORDING TO OCCUPATIONAL LIST. Occ. Code Brief Description of Job How long have ou had (or did you have) this particular job? _____ months 9. Describe the other full-time jobs you have had since you left EBCE? 10. RECORD ANSWERS, THEN CODE ACCORDING TO OCCUPATIONAL LIST. Occ. Code Brief Description of Job

Brief Description of Job

Brief Description of Job

11. What is (was) your main reason for working?

(LET RESPONDENT VOLUNTEER MAIN REASON. THEN SAY:)

Can you think of any other sons? What were they?

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Occ. Code

Occ. Code

12. How man hours do you work a week on the average?

1-4 hours

5-10 hours

11-20 hours

21-30 hours

31-40 hours

Over 40 hours

When you look back and compare the course of your career so far with that of 13. people about your age, are you: (INTERVIEWER CHECK ONE.)

Much less satisfied with your career than they are?

Somewhat less satisfied with your career than they are?

About as satisfied with your career as they are?

Somewhat more satisfied with your career than they are?

Much more satisfied with your career than they are?

When you compare how the rest of your career is likely to turn out with how 14. the careers of people your age are likely to turn out, are you:

(INTERVIEWER

Probably not

Definitely not

Much less satisfied than they are?

Somewhat less satisfied than they are?

About as satisfied as they are?

Somewhat more satisfied than they are?

Much more satisfied than they are?

15. Would you like to work at your present job 5 years from now? READ LIST WHICH FOLLOWS AND RECORD ANSWERS.)

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Definitely

Probably

Uncertain

.

17. What kind of a job would you like to have in the next five years?

RECORD ANSWER, THEN PROBE TO GET ENOUGH INFORMATION TO CODE RESPONSE ACCOUNTIONAL LIST.

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Brief Description of J	rief	Description	of	Job
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16. Would you rather have some other job? Yes

Occ. Code

Unsure

No

18. I am going to read you some items which scribe various aspects of jobs. Please tell me how satisfied you are with this aspect of your present job. (INTERVIEWER: CIRCLE APPROPRIATE NUMBER.)

	Ver Diss	-	Ţ	Very Sat		Not Applicable
Earnings	1	2	· 3	4	. 5	NA
The duties of the job	1	2	3	4	5	NA
Job security	1	2	3	4	5	NA
The ar it of responsibility I have	1	2	3	4	5	NA
Opportunity for promotion or advancement	1	2	3	4	5	NA
Benefits (insurance sick pay, pension plans, etc.)	1	2	3	4	5	NA
Opportunities to use my knowledge and ability	1	2	3	4	5	NA
Getting along with fellow workers	1	2	3	4	5	NA
The kind of supervisor I have	1	2	3	. 4	5	NA
Physical working conditions	1	2	3 ·	4	5	NA

19. Are you participating in any educational or training program? (IF "NO" SKIP TO QUESTION 26.) Yes No

If so, what type of training program are you now participating in? (INTERVIEWER CHECK ONE.)

4-year college or university

Junior or community college

Vocational or technical school

Business school

1.82

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155		
Trade School		
Armed Services training program	ı	
Training program run by person'	s employer	
Other (specify)		
What are (were) you studying or lear	ning about?	
RECORD ANSWER, THEN CODE ACCORDING T	O THE OCCUPATIONAL LIST.	
Brief Description of Job	Occ	Code
How long have you been (were you) in	this educational program?	month
What other educational programs have program.	you been in since you left	the EBCE
Brief Description of Program	Subject Matter	Occ. Code
		c
	· · · · · · · · · · · · · · · · · · ·	Occ. Code
	Subjec Matter	Occ. Code
Brief Description of Program Are/were you satisfied with the educ	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bei	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bei program(s)?	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bei program(s)? To pursue a chosen career	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bei program(s)? To pursue a chosen career To find a career	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bei program(s)? To pursue a chosen career To find a career Did not know what else to do	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bei program(s)? To pursue a chosen career To find a career Did not know what else to do Pressure from parents	Subjec Matter ational or training program ure	Occ. Code
Brief Description of Program Are/were you satisfied with the educ were in? Yes No Not s What is/was your main reason for bein program(s)? To pursue a chosen career To find a career Did not know what else to do Pressure from parents Pressure from friends	Subjec Matter ational or training program ure ng/having been in this educ	Occ. Code

20.

. e.

21.

22.

23.

24.

25.

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months

Occ. Code

Occ. Code

o,

- 26. What kinds of subjects or shills would you like to learn about in the next five (5) years?
  - RECORD ANSWER, THEN PROBE TO GET ENOUGH INFORMATION TO CODE RESPONSE ACCORDING TO THE OCCUPATIONAL LIST.

Brief Description of Job

Occ. Code

27. What is the level of formal education that you plan to complete?

PROBE TO GET RESPONSE THAT CLASSIFIES INTO ONE OF THE FOLLOWING CATEGORIES. PROMPT RESPONDENT BY READING OFF THE LIST UNTIL HE SAYS YES, CHECKING THE HIGHEST LEVEL MENTIONED.

Don't know, haven't thought much about it

High school diploma or equivalency

One-year College Certificate

Business School Certificate

Vocational, Technical, or Trade School Certificate

Two-year College Certificate

Four-year College Degree

Master's Degrée

Doctor's Degree

Other (specify)

28. Realistically, how much money would you like to be making five years from now? \$_____

NOW I'M GOING TO ASK YOU SOME QUESTIONS ABOUT THE TIME YOU SPENT IN EBCE.

29. What did you like best about the EBCE program?

30. What did you dislike most about the EBCE program?



31. Now much do you feel you learned while you were in the EBCE program? I'm going to mention several areas of learning and you can tell me whether you feel you learned a lot, some, a little, or nothing at all. Think about each area and then make an estimate of how much you learned about this subject or skill.

ASK THE STUDENT TO USE A PIECE OF SCRATCH PAPER AND A PENCIL TO WRITE DOWN THE RATING SCALE. SO THAT HE/SHE WILL BE ABLE TO LOOK AT IT WHEN YOU READ OFF THE AREAS.

	3	Not at	A			Don't
		<u>al?</u>	Little	Some	<u>A Lot</u>	Remember
	Specific job skills		·			
	Career planning					
	Awareness of job opportunities					
	Job-seeking skills					
	Reading skills					
	Writing skills			·		
	Math skills		<u> </u>			
	Ability to communitate with adults					
32.	What kind of things did you learn i	n EBCE that	at are mo	ost usefi	il to you	ı now?
					·	
		·				
33.	Why did you leave EBCE?				·	
	RECORD RESPONSE AND CODE IT ACCORDI	NG TO THE	FOLLOWIN	1G:		. c
	graduateafter one year;	comple	ted two y	years ·		
÷ .	dropped out voluntarily					
	was asked to leave					
	other (specify)	с	````			
	· · · · · · · · · · · · · · · · · · ·					
34.	In general, did the time spent in E effect on your $D$	BCE have	a positiv	ve, negat	cive, or	no
	effect on your D	Pos	itive	No Effec	t Nec	Jative
	Preparation for further education					· · ·
	• • •	1				 · .
	Preparation for jobs	\		·		·

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0 Now closely did your first job after graduating relate to your EBCE 35. experience? (CHECK ONE ONLY.) I was employed in an occupation in which I had EBCE experience. I was employed in a related occupation. I was employed in a completely different occupation. Is there anything more that you would have liked to have received from the 36. EBCE program to assist you in further education or training? ____Yes ____No If there is, what is it? Are there any other changes that you would recommend be made to improve the 37. EBCE program? Yes No If so, what are the changes you would recommend? 186

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