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ABSTRACT

These two evaluation updates cover segments of the third phase of the Apprenticeship Training Materials Clearinghouse project, which is being conducted at Lane Community College in Eugene, Oregon. The first update evaluates activities related to the following project objectives: conduct a field test on clearinghouse services; revise the model according to the evaluations for the field sites; develop mailing lists of institutions, private firms, and organizations that are potential users of apprenticeship materials; develop an information package for dissemination; establish a computerized database; and continue to update and expand the materials resource bank for quality improvement. Information about ONTERIS (the Ontario Education Resources Information System) and database including clearinghouse thesaurus terms pertaining to material type, vendor type, and geographic location is appended. The second update includes evaluations of additional project activities conducted in relation to the objectives discussed in the first update. Appended to the second update are clearinghouse support letters, a related newspaper article, and apprenticeship clearinghouse database printout examples. (MN)

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**A Model System for the Design and Maintenance  
of Related Instruction Curriculum for  
Approved U.S. Department of Labor  
Apprenticeship Occupations**

**Phase III**

Lane Community College  
Eugene, Oregon

U.S. DEPARTMENT OF EDUCATION  
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CE 064 472

## COVER SHEET

Grantee Organization: Lane Community College  
4000 East 30th Avenue  
Eugene, OR 97405

Grant No.: G008642193

Project Dates: Starting Date: October 1, 1986  
Ending Date: September 30, 1989

Project Director: Carl Horstrup  
Apprenticeship Coordinator  
Lane Community College  
4000 East 30th Avenue  
Eugene, OR 97405  
Telephone: (503) 747-4501, ext. 2843

FIPSE Program Officer:

ED 330 893 CE 057 772  
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Lane Community Coll., Eugene, Oreg.  
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A final report and final evaluation report of Phase III are provided for a project to establish a national clearinghouse for apprenticeship-related instructional materials. The final report provides a summary and a narrative account of these project activities: identification of materials; identification of apprenticeship curriculum needs; establishment of models for design and development of materials; and establishment of a computerized system for storing, organizing, and retrieving curriculum materials from a centralized database and repository for printed materials. The evaluation report focuses on the continuing evaluation of the directory and materials dissemination. The following findings are reported: (1) the measures used indicated a high degree of acceptance for the utility of the directory; (2) mailing lists of potential users were developed; (3) clearinghouse brochures were made available; (4) apprenticeship instructor workshops on use of the clearinghouse were conducted; and (5) a continuously updated computerized database was established in the UNIX system. Twelve appendices making up the bulk of the document include a listing of databases used; a description of record fields for the apprenticeship database; and memoranda on the following items: directory of company information, field labels for two databases, vendor database on the FIPSE (Fund for the Improvement of Postsecondary Education) computer, vendor directory (including names, addresses, and descriptions of 212 vendors), Vocational Education Curriculum Materials subfile, Resources in Vocational Education subfile, National Technical Information Service subfile, and a projected apprenticeship clearinghouse. Two programming sheets conclude the document. (YLB)

This project established a national clearinghouse for apprenticeship related instructional materials. This project searched out quality training materials from all states and Canadian provinces. During this search process, an assessment of apprenticeship curriculum needs was made and curriculum gaps defined. A directory was produced and distributed to all 10 USDL BAT Regional and 50 State Offices and to several states' vocational curriculum centers. Continual progress reports were printed in the monthly national newsletter, USAA (United States Apprenticeship Association) Sentinel, which has membership in every state and U.S. territory. A computerized data base system was developed allowing additions and revisions as various sources become available for inclusion.

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"A MODEL SYSTEM FOR THE DESIGN AND MAINTENANCE OF RELATED  
INSTRUCTION CURRICULA FOR APPROVED U.S. DEPARTMENT OF LABOR  
APPRENTICESHIP PROGRAMS"

**EVALUATION UPDATE**

**PHASE III**

**A MODEL SYSTEM FOR THE DESIGN AND MAINTENANCE OF  
RELATED INSTRUCTION CURRICULUM FOR APPROVED  
U. S. DEPARTMENT OF LABOR APPRENTICESHIP  
OCCUPATIONS**

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**JANUARY 12, 1989**

## INTRODUCTION

THE PROJECT IS PROGRESSING THROUGH ITS THIRD PHASE IN ACCORDANCE WITH THE OBJECTIVES WHICH ARE ENCOMPASSED BY THE GRANT. THIS UPDATE REPORTS ON PROJECT ACTIVITIES WHICH HAVE BEEN CONCLUDED SINCE THE PHASE II EVALUATION REPORT (DATED OCTOBER 12, 1988) AND CONTAINS THE CURRENT STATUS OF THE EVALUATION MEASURES FOR PHASE III. THE THIRD PHASE OF THE PROJECT HAD AS ITS MAJOR ROLES THE CONTINUING EVALUATION OF THE DIRECTORY AND MATERIALS DISSEMINATION.

THE FIELD EVALUATION OF THE DIRECTORY CONTINUES TO RECEIVE INPUT FROM SITES REPRESENTING SELECTED STATES AND PROVINCES IN THE UNITED STATES AND AUSTRALIA. THE UPDATED RESULTS OF THESE DATA ARE INCLUDED IN THIS REPORT.

THE PROJECT DIRECTOR'S MEETING WITH PERSONNEL AT THE MINISTRY OF SKILLS DEVELOPMENT (TORONTO, ONTARIO) PROVIDED DETAIL CONCERNING ONTERIS (ONTARIO EDUCATION RESOURCES INFORMATION SYSTEM), A PROGRAM WHICH IS INSTALLED WITHIN THE SEARCH FORMAT FOR THE APPRENTICESHIP CLEARINGHOUSE PROJECT. INFORMATION WHICH IS PERTINENT TO THE ONTERIS MATERIALS IS INCLUDED AS APPENDIX A.

HARDWARE ITEMS FOR THE PROJECT ARE OPERATIONAL AT THE LANE COMMUNITY COLLEGE SITE. THE SOFTWARE FOR THE PROJECT HAS ALLOWED FOR THE CREATION OF AS MANY DATABASES AS THE COMPUTER HAS STORAGE CAPACITY. THE INPUT FORMAT FOR THE SYSTEM PROVIDES FOR THE USE OF A THESAURUS WHICH IS BASED TO A LARGE EXTENT UPON THE ERIC THESAURUS TERMS. THE UTILIZED FORMAT APPEARS TO ADEQUATELY MEET THE FUTURE REQUIREMENTS FOR THE PROJECT AS IT MOVES BEYOND PHASE III OF THE PROJECT.

**PHASE III PROGRESS**

THE FOLLOWING PROGRESS HAS BEEN MADE SINCE THE LAST REPORT IN FULFILLING PHASE III GOALS. CONTINUING DATA ANALYSIS OF THE FIELD EVALUATIONS OF THE DIRECTORY ARE INCLUDED WITH THIS SECTION OF THE REPORT.

**OBJECTIVE 4.3. CONDUCT FIELD TEST ON CLEARINGHOUSE SERVICES.**

THE DATA WHICH HAVE BEEN COMPILED ON THE EVALUATION OF THE DIRECTORY ARE SHOWN BELOW. THESE DATA HAVE BEEN UPDATED FROM THE REPORT DATED 12 OCTOBER 1988, REFLECTING ADDITIONAL INPUT BY FIELD REVIEWERS. A FEW FIELD SITE REVIEWS ARE PENDING. THE INSTRUMENT USED TO GATHER THESE DATA WAS PROVIDED IN THE PREVIOUS REPORT. MEAN SCORES WERE COMPUTED FOR EACH OF FIVE (5) CRITERIA AND ARE BASED ON A 4-POINT SCALE. THE SUMMARY DATA ARE AS FOLLOWS:

CRITERIA	MEAN SCORE
ORGANIZATION OF THE DIRECTORY . . . . .	3.36
COMPLETENESS OF THE INSTRUCTIONS. . . . .	3.71
TECHNICAL ACCURACY OF THE CONTENT . . . . .	3.45 *
CLARITY OF THE INCLUDED CONTENT . . . . .	3.57
GENERAL UTILITY OF THE DIRECTORY FOR FIELD USE . . . . .	3.64

\* NOTE: THE EVALUATIONS FOR TECHNICAL ACCURACY REPRESENT 79% OF THE RESPONDING SITES. OTHERS REPORTED THAT THEY HAD NOT AS YET TESTED THE 'TECHNICAL ACCURACY OF THE CONTENT' CRITERION.

THESE CRITERIA MEASURES APPEAR TO INDICATE A HIGH DEGREE OF ACCEPTANCE FOR THE UTILITY OF THE DIRECTORY AND ARE JUDGED TO BE VALID GAUGES OF THE FITNESS OF THESE MATERIALS FOR FIELD USE. A RECENT EVALUATION SUGGESTED THAT AN INDEX SHOULD BE ADDED TO THE DIRECTORY. (NOTE: THIS IS BEING IMPLEMENTED AS PER OBJECTIVE 4.5.2 CRITERIA.)



**OBJECTIVES 4.5 REVISE MODEL ACCORDING TO EVALUATIONS  
AND 6.1.3 FROM FIELD TEST SITES**

A TOTAL OF FOURTEEN (14) TEST SITES, INCLUDING THE COLLEGE OF TECHNICAL AND FURTHER EDUCATION IN GILLES PLAINS, AUSTRALIA, HAVE SUBMITTED EVALUATION RESULTS FOR THE FIELD TESTING OF THE DIRECTORY MATERIALS. FIGURE 1 SHOWS THE LOCATIONS OF THOSE STATES WHICH HAVE SUBMITTED EVALUATION REVIEWS. KEY PROJECT PERSONNEL HAVE BEEN MADE AWARE OF THE RESULTS OF THESE FIELD REVIEWS. FEW CHANGES ARE ANTICIPATED FOR THE MODEL AS A RESULT OF THESE EVALUATIONS.

**OBJECTIVE 5.1. DEVELOP MAILING LISTS OF INSTITUTIONS,  
PRIVATE FIRMS AND ORGANIZATIONS THAT ARE  
POTENTIAL USERS OF APPRENTICESHIP MATERIALS.**

LISTS OF BOTH PUBLIC AND PRIVATE USERS HAVE BEEN COMPILED AS SPECIFIED IN THE PROPOSAL GOALS. THESE LISTS ARE IN THE HANDS OF THE PROJECT DIRECTOR. IT IS ANTICIPATED THAT AN INITIAL PRINTING OF COPIES OF THE MATERIALS WILL BE MAILED TO CRITICAL PARTIES INCLUDING 50-55 TO USDL APPRENTICESHIP DIRECTORS, 35 TO STATE APPRENTICESHIP DIRECTORS, 50-55 TO STATE VOCATIONAL AND CAREER EDUCATION DIRECTORS, 15 TO FIELD TEST SITE PEOPLE, SIX TO REGIONAL CURRICULUM CENTERS, FIVE TO AAJCC PERSONNEL, WITH 60-65 COPIES BEING MADE AVAILABLE FOR DISTRIBUTION AT THE NATIONAL CURRICULUM COORDINATORS VOCATIONAL-TECHNICAL EDUCATION MEETING TO BE HELD AT KANSAS CITY DURING JULY 9-12, 1989.\* VENDORS HAVE GIVEN WRITTEN PERMISSION TO COPY THEIR MATERIALS.

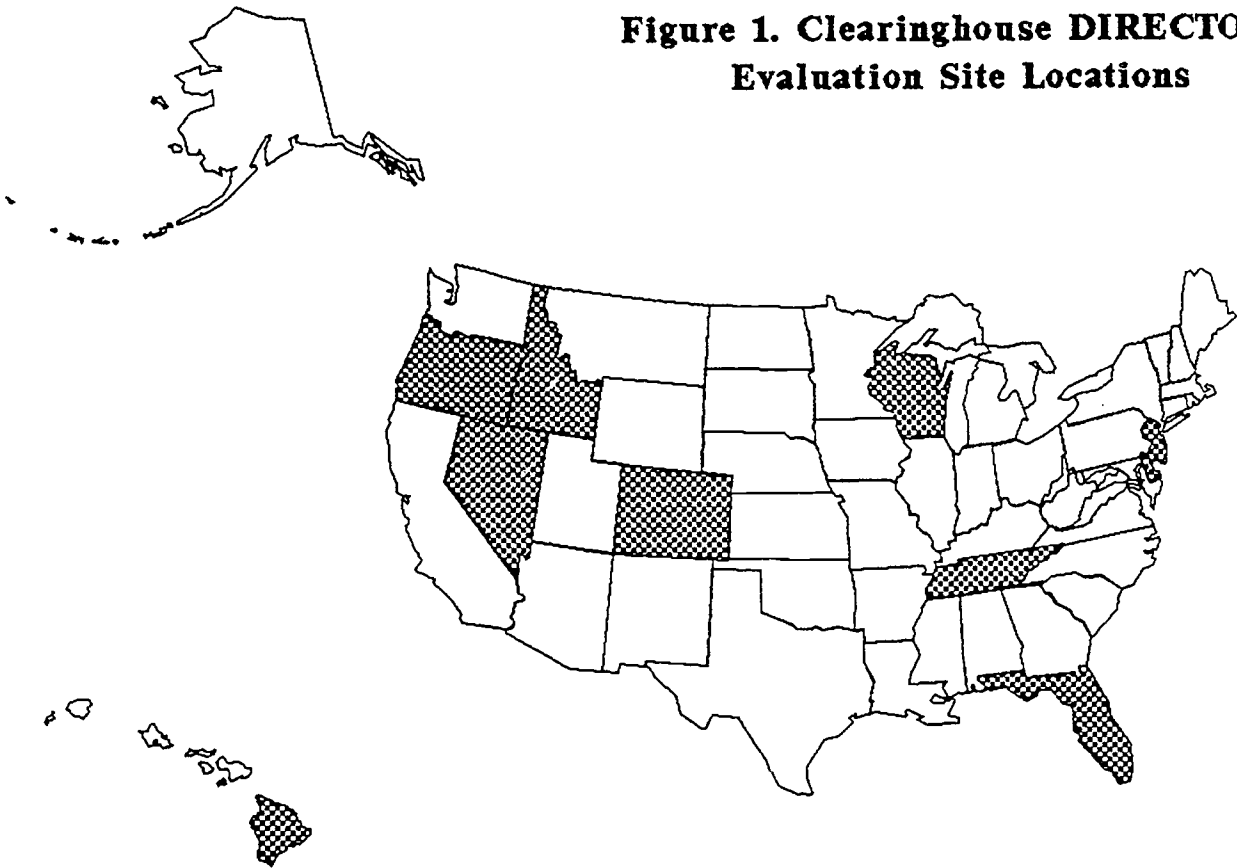
(\*IT SHOULD BE NOTED THAT THE PROJECT STAFF IS IN THE PROCESS OF INITIATING A DISSEMINATION GRANT WHICH WOULD PROVIDE ADDITIONAL COPIES OF THE MATERIALS TO STATE DIRECTORS OF APPRENTICESHIP TRAINING. MONIES FROM THIS GRANT WOULD ALSO BE UTILIZED TO DEVELOP A VIDEOTAPE FOR THE PROJECT, WITH SOME 150 COPIES PLANNED FOR DISTRIBUTION TO STATE DAT PERSONNEL.)

**OBJECTIVE 5.2. DEVELOP INFORMATION PACKAGE FOR  
DISSEMINATION.**

IN ADDITION TO THE BROCHURE, WHICH IS PRESENTLY BEING EMPLOYED AS A DISSEMINATION VEHICLE, AN INFORMATION SHEET WILL BE DEVELOPED AS A PRODUCT OF THE PROJECT. IT IS ANTICIPATED THAT THE INFORMATION SHEET WILL BE COMPLETED PRIOR TO THE NNCCVTE MEETING TO BE HELD IN KANSAS CITY DURING JULY 9-12, 1989. CLEARINGHOUSE BROCHURES HAVE BEEN MADE AVAILABLE ON A REQUEST BASIS FROM THE PROJECT DIRECTOR'S OFFICE ON THE LANE COMMUNITY COLLEGE CAMPUS.



**Figure 1. Clearinghouse DIRECTORY  
Evaluation Site Locations**



**OBJECTIVE 3.1 ESTABLISH A COMPUTERIZED DATABASE.**

**OBJECTIVE 7.3 CONTINUE TO UPDATE AND EXPAND THE MATERIALS RESOURCE BANK FOR QUALITY IMPROVEMENT**

THE XENIX V OPERATING SYSTEM AND THE BRS SOFTWARE WHICH WILL BE UTILIZED IN THE MANAGEMENT OF THE DATABASES FOR THE PROJECT ARE OPERATIONAL. MODIFICATIONS HAVE BEEN MADE IN THE MATERIALS RESOURCE BANK FOR PURPOSES OF ALLOWING FOR A BROADER SPECTRUM OF USER NEEDS. IN ADDITION TO THE CLEARINGHOUSE DATABASE, A NUMBER OF OTHER DATABASES ARE BEING INSERTED INTO THE SYSTEM FOR PURPOSES OF MATERIALS RESOURCE RETRIEVAL. THESE DATABASES INCLUDE NTIS, RIVE, ERIC, VECM AND OTHERS. THESE ARE BEING SCREENED FOR RESOURCES WHICH ARE APPLICABLE TO CLEARINGHOUSE CLIENTS. A TOTAL OF 1000 CITATIONS ARE EXPECTED FROM EACH OF THESE TO BE APPROPRIATE TO APPRENTICESHIP CLEARINGHOUSE USERS.

THE APPRENTICESHIP CLEARINGHOUSE DATABASE WILL BE HANDLED AS A SEPARATE DATABASE WITHIN THE SYSTEM. THIS WILL ALLOW THE USER TO SEARCH THE PUBLIC SECTOR FIRST BEFORE GOING TO THE MORE EXPENSIVE VENDOR MATERIALS, WHICH ARE DERIVED FROM PRIVATE ENTERPRISES, NETWORKS WHICH DO VENDOR WORK, AND FROM OTHER CLEARINGHOUSES. THE COMPUTER HAS BEEN READIED TO ACCEPT ALL INFORMATION NECESSARY TO THIS PROCESS.

A DIRECTORY OF COMPANY INFORMATION THESAURUS HAS BEEN DESIGNED TO FACILITATE THE DATABASE OPERATION. AS THE DOCUMENTATION OF THE VENDORS IS COMPLETED, THE DATABASE MAY BE SEARCHED BY SPECIFIC TOPICS IN THE MATERIAL TYPE (MT) FIELD BY COMPANY NAME, LOCATION, AREA CODE, ETC. THE INPUT FORM CONTAINS A BASIC INFORMATION CAPABILITY WITH THE ADDITION OF A FAX NUMBER, WITH THE TELEPHONE NUMBER BEING SPLIT INTO TWO FIELDS, LISTING TOLL AND TOLL-FREE STATUS.

IN USING THE FIELD FOR MATERIAL TYPE (MT), THE WORDS USED FOR INPUT NEED TO COME FROM THE THESAURUS (SEE APPENDIX B) TO INCLUDE ALL WORDS THAT APPLY; THE USERS MAY USE UP TO FIFTEEN TERMS. WITHIN THE THESAURUS, THE BOLD FACED WORDS ARE THE PREFERRED TERMS TO BE USED IN THE MT FIELD. UF REPRESENTS 'USED FOR' AND BT MEAN 'BROADER TERM'. FOR EVERY TERM PLACED INTO THE MT FIELD THERE WILL BE A BT TERM FOR THE DESCRIPTOR FIELD, WHICH WILL BE USED TO BUILD A SUBJECT INDEX FOR THE COMPANY DIRECTORY AT PUBLICATION TIME. THE GEOGRAPHICAL FIELD AND THE VENDOR TYPE FIELDS ARE ALSO SORT FIELDS WHICH MAY BE UTILIZED SHOULD THE DECISION BE MADE TO PUT OUT A PAPER DIRECTORY. THE FINISHED PRODUCT WOULD CONTAIN AT LEAST THREE SECTIONS LISTING THE RESOURCE BY MATERIAL TYPE, VENDOR TYPE, AND BY GEOGRAPHICAL LOCATION. THE VOCABULARY WILL BE MODIFIED OVER TIME TO REFLECT THE DEMANDS AND NEEDS OF THE PROJECT.

WHEN THE PROCESS OF DOCUMENTING VENDORS IS COMPLETE, IT WILL BE POSSIBLE FOR THE USER TO OBTAIN A PRINTED DIRECTORY WHICH IS CREATED BY DOWNLOADING AN ASCII FILE AND EDITING IT WITH DESKTOP PUBLISHING SOFTWARE, ACTUAL REMOTE COMPUTER SEARCHING, OR DOWNLOADING SPECIFIC LISTS TO EITHER 5 1/4 OR 3 1/2 INCH FLOPPY DISKS.

THE PROJECT CONTINUES TO PROCEED ACCORDING TO THE GRANT PROPOSAL. FUTURE DECISIONS NEED TO BE MADE REGARDING SUCH ITEMS AS EDITORIAL POLICY, COPYRIGHT, AND THE ESTABLISHMENT OF COSTS FOR USERS. IF A MICROFICHE COLLECTION IS TO BE MADE A PART OF THE CLEARINGHOUSE, IT SHOULD BE GIVEN A COST ESTIMATE.

APPENDIX

ONTARIO EDUCATION RESOURCES DATABASE  
INFORMATION MATERIALS

CLEARINGHOUSE THESAURUS TERMS  
MATERIAL TYPE (MT)  
VENDOR TYPE (VT)  
GEOGRAPHICAL LOCATION (GL)

## APPENDIX A



Ministère  
de  
l'Éducation  
Ontario

Chris Ward, ministre  
Bernard J. Shapiro, sous-ministre

### RECHERCHES ET RAPPORTS

Documents de politiques  
Rapports de groupes d'études  
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Aperçu de la documentation  
Rapports statistiques

### PROGRAMMES SCOLAIRES

Programmes-cadres  
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### MATÉRIEL DIDACTIQUE

Manuels scolaires  
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Films  
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### SOURCES/COLLABORATEURS

Ministère de l'Éducation de l'Ontario  
Autres ministères du gouvernement de l'Ontario  
Conseils scolaires  
Associations d'enseignants  
Autres organismes du domaine de l'éducation  
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U.S.A.  
Téléphone 1-800-345-4277

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Communiquer avec **ONTERIS**

Centre d'informatique scolaire  
Ministère de l'Éducation  
Édifice Mowat, 24<sup>e</sup> étage  
Queen's Park  
Toronto (Ontario)  
M7A 1L2  
Téléphone (416) 965-4110

# Ontario Education Resources Information Database

**BRS Label:**  
ONED

**Scope:**  
Includes education research, curriculum guidelines, reports and other materials produced or sponsored by Ontario school boards, the Ministries of Education and Colleges and Universities, and other agencies, authorities and educational organizations.

**Producer:**  
Ontario Ministry of  
Education  
Mowat Block, 13th Floor  
Queens Park  
Toronto, Ontario M7A 1L2

**Contact:**  
Anna Lau  
416-965-4110

**BIBL Paragraphs:**  
AN, MT, MS, TI, AU, IN,  
PB, SO, YR, AV

**Years of Coverage:**  
1974 to the present with  
selected retrospective  
coverage.

**Total Size:**  
Approximately 6000 records  
as of April 1983

**Updates:**  
Every other month

## Record Structure

Label	Paragraph	Function	Example
AN	Accession Number	s @	on02797.an @cd > 00100 @ar = 00362
	Update Code	@ l	@up > 8303 ./l/1 up > 8303
SF	Subfile	s	research.sf
MT	Material Type	s	handbook mt
MS	Material Status	s	progress.ms.
LG	Language	s	francais.lg.
TI	Title	s	environmental with studies.ti
AU	Author	s	johnson-eileen\$.au
IN	Corporate Author Information	s	ontario with research adj council in.
PB	Publication Information	s	ottawa with research adj centre pb
SO	Journal	s	teacher adj education.so.
YR	Date	s	1982 yr
		@	@yr > 1980

Label	Paragraph	Function	Example
DE	Descriptors	s	secondary-schools de special adj education de
EL	Education Level	s	primary adj division el grade-2 el
TP	Target Population	s	mentally with handicapped tp adults tp
AB	Abstract	s	socioeconomic adj status ab
SC	Special Features/ Components	s	bibliography sc.
TE	Tests/Instruments	s	mathematics te
NT	Notes	s	french with (transl\$ or version) nt
GS	Geographic Source	s	central adj ontario gs
FS	Funding Source	s	ontario adj ministry with education fs
CP	Contact Person	s	adams-v\$ cp
AV	Availability	display	n/a

l: indicates limit function. The limit function is not available for menu-driven services.

# ONTERIS



Ministère  
de  
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Chris Ward, ministre  
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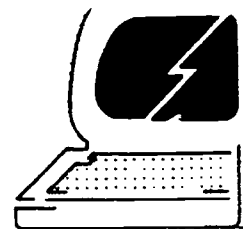
Assistance par téléphone  
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Édifice Mowat, 24<sup>e</sup> étage  
Queen's Park  
Toronto (Ontario)  
M7A 1L2  
Téléphone (416) 965-4110

# ONTERIS



## THE ONTARIO EDUCATION RESOURCES INFORMATION SYSTEM

### Contents

ONTERIS provides access to several types of educational information:

- Curriculum guidelines and support documents (CD numbers) produced by the Ministry of Education and Ontario boards of education.
- Learning materials (LM numbers), print and nonprint, which support the elementary- and secondary-level curriculum, including books, films, videocassettes, kits, and computer software. Major educational collections are included -- e.g., C14 textbooks, French Language Fund textbooks, Computer Based Learning Materials, and TVOntario Program Services.
- Educational research and reports (ON numbers) generated by Ontario boards of education, the Ministries of Education and of Colleges and Universities, and other agencies and authorities, such as the Ontario Institute for Studies in Education and teachers' associations.
- Reports and other papers of ministry funded commissions, reviews and projects (ARCH numbers) including the Education Relations Commission, recent commissions on Private Schools, Educational Finance, and Planning and Implementation.

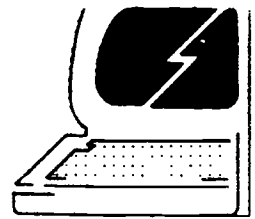
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For further information on ONTERIS, please contact:

ONTERIS  
Ministry of Education  
Computers in Education Centre  
24th Floor, Mowat Block  
900 Bay Street  
Toronto, Ontario  
M7A 1L2  
Telephone: (416) 965-4110





## LE SYSTÈME INFORMATISÉ DE RESSOURCES PÉDAGOGIQUES DE L'ONTARIO

### Genres de documents

ONTERIS donne accès à des documents de tous genres :

- Programmes-cadres et documents d'appui (numéros commençant par CD). Produits par le ministère de l'Éducation et les conseils scolaires.
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- Recherches en éducation (numéros commençant par ON). Proviennent des conseils scolaires, du ministère de l'Éducation, du ministère des Collèges et Universités, d'organismes comme l'Institut d'études pédagogiques de l'Ontario ou les fédérations d'enseignants.
- Rapports des commissions et comités financés par le Ministère (numéros commençant par ARCH), tels que la Commission des relations de travail en éducation, les comités sur l'école privée, le financement de l'éducation, la planification, etc.

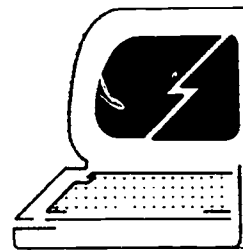
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# ONTERIS



## ONTERIS DATABASE

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- . This description of each document is entered in the computer and becomes the online record for that document.
- . ONTERIS sends a magnetic tape of the database and regular update tapes to BRS Information Technologies.

#### BRS INFORMATION TECHNOLOGIES

- . mounts the ONTERIS tapes on the BRS search system under the database label ONED.
- . provides international access to ONED.
- . provides access to many other databases
- . provides customer services 800-345-4277.
- . provides search training 800-411-9996.

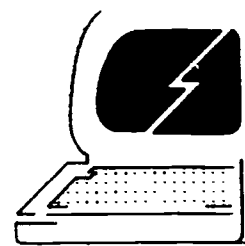
#### ACCESS TO BRS REQUIRES

- . a microcomputer or terminal and a modem.
- . access to the Bell Canada Datapac Network.

#### LIBRARIES PROVIDE DATABASE SEARCHING

- . Libraries are clients of BRS and perform database searches for their clientele.
- . Libraries searching ONED via BRS include the libraries of boards of education, educational organizations, faculties of education, and universities.
- . Some libraries provide search service for a fee.
- . BRS provides the BRKTHRU service, a user-friendly interface which assists individuals in searching BRS databases.

870630



## LA BASE DE DONNEES ONTERIS

### Production et accès

#### ONTERIS CREE LA BASE DE DONNES

- . Chaque document fourni par les collaborateurs d'ONTERIS est catalogué, indexé par sujets et résumé ou annoté.
- . Ces données sont emmagasinées dans une mémoire d'ordinateur et constituent l'enregistrement de ce document.
- . ONTERIS fait parvenir à BRS Information Technologies un ruban magnétique comprenant tous les enregistrements de la base de données; ces données sont mises à jour régulièrement.

#### BRS INFORMATION TECHNOLOGIES

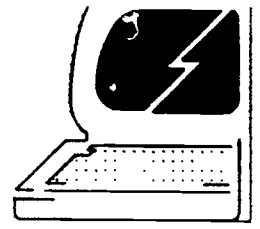
- . incorpore la base de données ONTERIS au système BRS, sous le nom d'ONED.
- . diffuse la base de données à l'échelle internationale.
- . donne accès à plusieurs autres bases de données.
- . fournit l'assistance technique à la clientèle, 800-345-4277.
- . offre des cours de formation, 800-411-9996.

#### ACCES A BRS

- . les usagers ont besoin d'un micro-ordinateur ou d'un terminal et d'un modem.
- . l'accès se fait par l'intermédiaire du réseau DataPac de Bell Canada.

#### SERVICES DE RECHERCHES EN DIRECT OFFERTS PAR LES BIBLIOTHEQUES

- . Les bibliothèques abonnées à BRS effectuent des recherches en direct pour leurs clients.
- . Parmi celles-ci on retrouve les bibliothèques des conseils scolaires, des organismes du domaine de l'éducation, des facultés d'éducation et des universités.
- . Certaines bibliothèques perçoivent des frais pour les recherches en direct.
- . BRS offre le service BRKTHRU, un aide à l'interrogation qui facilite le dialogue personne-machine.



## DEPOSITORIES OF ONTERIS MICROFICHE

### A. Curriculum and Research & Reports

Brock University  
Lakehead University  
Laurentian University  
Nipissing College  
Ottawa University  
Queen's University  
Trent University  
University of Toronto  
University of Western Ontario  
University of Windsor  
Ontario Institute for Studies in Education  
Ministry of Education  
Information Centre  
Eastern Ontario Regional Office  
Midnorthern Ontario Regional Office  
Northeastern Ontario Regional Office  
Northwestern Ontario Regional Office  
Western Ontario Regional Office

### B. Research & Reports (only)

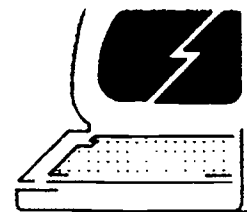
Canadian Education Association  
National Library of Canada  
Ontario Legislative Library  
TVOntario  
York University

### C. Briefs and Submissions

Ministry of Education, Information Centre  
Ontario Institute for Studies in Education  
Ontario Public Archives

### D. Out-of-Province, Curriculum (only)

Memorial University, Newfoundland



## DÉPOSITAIRES DES MICROFICHES D'ONTERIS

### A. Programmes, recherches et rapports

Université Brock  
Université Lakehead  
Université Laurentienne  
Université d'Ottawa  
Université Queen  
Université Trent  
Université de Toronto  
Université Western Ontario  
Université de Windsor  
Collège de Nipissing  
Institut d'études pédagogiques de l'Ontario  
Ministère de l'Éducation  
Centre d'information  
Bureau régional de l'est de l'Ontario  
Bureau régional du centre-nord de l'Ontario  
Bureau régional du nord-est de l'Ontario  
Bureau régional du nord-ouest de l'Ontario  
Bureau régional de l'ouest de l'Ontario

### B. Recherches et rapports (seulement)

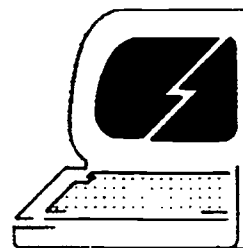
Association canadienne d'éducation  
Bibliothèque nationale du Canada  
Bibliothèque du parlement ontarien  
TVOntario  
Université York

### C. Mémoires et soumissions

Ministère de l'Éducation. Centre d'information  
Institut d'études pédagogiques de l'Ontario  
Archives publiques de l'Ontario

### D. Programmes venant d'autres provinces

Université Memorial, Terre-Neuve



## DOCUMENT AVAILABILITY

Document availability information is provided as the last paragraph of information on each record. Both hard copy and microfiche availability are listed.

### MICROFICHE

- . Microfiche of documents for which ONTERIS was able to obtain reproduction release is available for sale at Publications Ontario (formerly Ontario Government Publications Services), 880 Bay Street, 5th floor, Toronto, Ontario, M7A 1N8.
- . Microfiche of board curriculum documents are available only for reference at the Information Centre, Ontario Ministry of Education; at the Ministry's regional offices, with the exception of Central Region; and at the following depository libraries: the Ontario Institute for Studies in Education and at faculties of education at Brock University, Lakehead University, Laurentian University, Nipissing University College, Queen's University, Trent University, University of Ottawa, University of Toronto, University of Western Ontario, and the University of Windsor.

"X" - indicates  
this sort of  
availability

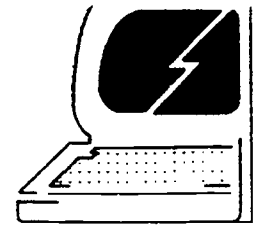
→ in our  
building

→ in Toronto

### PAPER/HARD COPY

- . Publications of the Ministry of Education are available for sale at Publications Ontario indicated in the Availability paragraph, from OISE Publications Sales.
- . Specific ordering information and price are included in the Availability (AV) paragraph for documents, as well as learning materials, for which this information was supplied by the publishers.

Information on the availability of documents for which reproduction release was not granted to ONTERIS and no ordering information was provided has to be obtained directly from the publishers or sources of the documents.



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### MICROFICHE

- Les microfiches de documents pour lesquels ONTERIS a obtenu une autorisation de reproduction sont en vente aux Publications Ontario (auparavant Service des publications du Gouvernement de l'Ontario), 880, rue Bay, 5e étage, Toronto (Ontario), M7A 1N8.
- Les microfiches des programmes-cadres des conseils de l'éducation sont disponibles pour consultation au Centre d'information du ministère de l'Éducation, aux bureaux régionaux du Ministère (sauf pour la région centrale) et aux bibliothèques de dépôt suivantes: l'Institut d'études pédagogiques de l'Ontario et les facultés d'éducation des universités Brock, Lakehead, Laurentienne, Nipissing, Queen, Toronto, Western et Windsor.

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Les renseignements sur la disponibilité des documents pour lesquels ONTERIS n'a pas obtenu de permission de reproduction ou dont on ignore le numéro de commande doivent être obtenus directement de l'éditeur.

## APPENDIX B

### Material Type (MT)

Audiotape Cartridges

use **Audiotape Cassettes**

Audiotape Cassette Recorders

use **Audiotape Cassettes**

#### **Audiotape Cassettes**

uf Audiotape Cartridges  
Audiotape Cassette Recorders  
bt **Magnetic Tape Cassettes**

#### **Audiotape Recordings**

uf Language Tapes  
Master Tapes (Audio)  
Phonotape Recordings  
Sound Tape Recordings  
bt **Tape Recordings**

#### **Audiovisual Aids**

uf Audiovisual Equipment  
Audiovisual Materials  
Audiovisual Media  
bt **Educational Media**

Audiovisual Equipment

use **Audiovisual Aids**

Benches

use **Furniture**

#### **Bibliographies**

uf Book Lists  
Literature Searches  
bt **Reference Materials**

Black and White Films

use **Films**

Book Lists

use **Bibliographies**

#### **Books**

bt **Publications**

CAI

use **Computer Assisted Instruction**

Cartography

use **Graphic Arts**



## **Catalogs**

bt **Publications**

Classroom Equipment

use **Educational Equipment**

## **Classroom Furniture**

uf Furniture (Classroom)

bt **Education Equipment  
Furniture**

Classroom Materials

use **Instructional Materials**

Clinical Teaching (Individualized Instruction)

use **Individualized Instruction**

Color Films

use **Films**

## **Competency Based Materials**

Computer Aided Instruction

use **Computer Assisted Instruction**

## **Computer Assisted Instruction**

uf CAI

Computer Aided Instruction

Computer Assisted Learning

Computer Based Instruction

Computer Based Laboratories

bt **Computer Uses in Education  
Programed Instruction**

Computer Assisted Learning

use **Computer Assisted Instruction**

Computer Based Instruction

use **Computer Assisted Instruction**

Computer Based Laboratories

use **Computer Assisted Instruction**

Computer Graphics

use **Graphic Arts**

## **Course Descriptions**

uf Course Outlines

Syllabi

Course Outlines

use **Course Descriptions**

## **Courseware**

- uf Instructional Software  
Courseware Reviews
- bt **Computer Software**  
**Instructional Materials**

## Courseware Reviews

- use **Courseware**

## **Curriculum**

- uf Curriculum Content  
Teaching Areas

## Curriculum Content

- use **Curriculum**

## **Curriculum Guides**

- uf Fles Guides
- bt **Guides**

## Curriculum Materials

- use **Instructional Materials**

## **Directories**

- BT** Reference Materials

## Discussion Guides

- use **Teaching Guides**

## Drill Presses

- use **Machine Tools**

## **Educational Equipment**

- uf Classroom Equipment
- bt **Equipment**

## Educational Materials

- use **Instructional Materials**

## **Educational Media**

- uf Instructional Aids  
Instructional Media  
Mechanical Teaching Aids

## Engineering Graphics

- use **Graphic Arts**

## Examinations

- use **Tests**

## Film Clips

- use **Filmstrips**

Film Loops

use **Filmstrips**

**Films**

uf Black and White Films  
Color Films  
Motion Pictures  
bt **Mass Media**  
**Nonprint Media**  
**Visual Aids**

**Filmstrips**

uf Film Clips  
Film Loops  
bt **Nonprint Media**  
**Visual Aids**

Fles Guides

use **Curriculum Guides**

Fles Materials

use **Instructional Materials**

**Furniture**

uf Benches  
Tables  
Stands  
bt **Equipment**

Furniture (Classroom)

use **Classroom Furniture**

**Graphic Arts**

uf Cartography  
Computer Graphics  
Engineering Graphics  
Layout (Publications)  
Printing  
bt **Visual Arts**

Grinding Machines

use **Machine Tools**

Guidebooks

use **Guides**

**Guides**

uf Guidebooks  
Handbooks  
Health Activities Handbooks  
Health Guides  
Manuals  
bt **Reference Materials**

## **Hand Tools**

bt **Equipment**

## Handbooks

use **Guides**

## Health Activities Handbooks

use **Guides**

## Health Guides

use **Guides**

## Identification Tests

use **Tests**

## Individualized Curriculum

use **Individualized Instruction**

## Individualized Education

use **Individualized Instruction**

## **Individualized Instruction**

uf Clinical Teaching (Individualized Instruction)  
Individualized Curriculum  
Individualized Education  
Personalized Instruction  
Self Paced Instruction

bt **Teaching Methods**

## Instructional Aids

use **Educational Media**

## **Instructional Materials**

uf Classroom Materials  
Curriculum Materials  
Educational Materials  
Files Materials  
Training Materials  
Training Aids  
Training Packages  
Teaching Materials  
Teaching Aids

bt **Educational Media**

## Instructional Media

use **Educational Media**

## Instructional Software

use **Courseware**

## Instructor Guides

use **Teaching Guides**

Instructor Manuals  
use **Teaching Guides**

Lab Manuals  
use **Laboratory Manuals**

**Laboratory Manuals**  
of Lab Manuals  
bt **Guides**  
**Instructional Materials**

Language Tapes  
use **Audiotape Recordings**

Laps  
use **Learning Modules**

Lathes  
use **Machine Tools**

Layout (Publications)  
use **Graphic Arts**

Learning Activity Packages  
use **Learning Modules**

Learning Activity Packets  
use **Learning Modules**

Learning Kits  
use **Learning Modules**

**Learning Modules**  
of Laps  
Learning Activity Packages  
Learning Activity Packets  
Learning Kits  
Learning Packages  
Modular Learning  
Training Modules  
bt **Instructional Materials**

Learning Packages  
use **Learning Modules**

Lesson Notes  
use **Lesson Plans**

**Lesson Plans**  
of Lesson Notes

Literature Searches  
use **Bibliographies**

## **Machine Tools**

- uf Drill Presses
- Grinding Machines
- Lathes
- Milling Machines
- Punch Presses
- Shapers
- bt **Equipment**

## Machinery

- use **Mechanical Equipment**

## Machines

- use **Mechanical Equipment**

## Manuals

- use **Guides**

## Master Tapes (Audio)

- use **Audiotape Recordings**

## Mechanical Devices

- use **Mechanical Equipment**

## **Mechanical Equipment**

- uf Machinery
- Machines
- Mechanical Devices
- bt **Equipment**

## Mechanical Teaching Aids

- use **Educational Media**

## Milling Machines

- use **Machine Tools**

## **Minicourses**

- uf Short Courses
- bt **Courses**

## Modular Learning

- use **Learning Modules**

## Motion Pictures

- use **Films**

## **Multimedia Instruction**

- bt **Teaching Methods**

## Optical Videodisks

- use **Videodisks**

Overhead Transparencies  
use **Transparencies**

Personalized Instruction  
use **Individualized Instruction**

Phonotape Recordings  
use **Audiotape Recordings**

Printing  
use **Graphic Arts**

**Professional Services**  
bt **Services**

Programed Texts  
use **Textbooks**

Punch Presses  
use **Machine Tools**

Quizzes  
use **Tests**

**Research Reports**  
uf Research Studies  
Scientific Reports  
Technical Reports  
bt **Reports**

Research Studies  
use **Research Reports**

**Safety Equipment**  
uf Safety Glasses  
Safety Signs  
Safety Products  
bt **Equipment**

Safety Glasses  
use **Safety Equipment**

Self Paced Instruction  
use **Individualized Instruction**

Self Pacing Machines  
use **Teaching Machines**

Scientific Reports  
use **Research Reports**

**Seminars**  
bt **Meetings**

**Service Manuals**

bt **Guides**

**Services**

uf Support Systems (Services)

Shapers

use **Machine Tools**

Short Courses

use **Minicourses**

Simulated Studies

use **Simulation**

**Simulation**

uf Simulated Studies  
Simulators

bt **Methods**

Simulators

use **Simulation**

**Slides**

bt **Transparencies**

Sound Tape Recordings

use **Audiotape Recordings**

Stands

use **Furniture**

Summer Workshops

use **Workshops**

Supplementary Textbooks

use **Textbooks**

Support Systems (Services)

use **Services**

Syllabi

use **Course Descriptions**

Teacher Guides

use **Teaching Guides**

Teacher Manuals

use **Teaching Guides**

Teaching Aids

use **Instructional Materials**



## Teaching Guides

- uf Discussion Guides
- Instructor Manuals
- Teacher Guides
- Instructor Guides
- Teacher Manuals
- bt **Guides**

## Teaching Machines

- uf Self Pacing Machines
- bt **Autoinstructional Aids**

## Teaching Materials

- use **Instructional Materials**

## Technical Reports

- use **Research Reports**

## Test Books

- use **Tests**

## Tests

- uf Examinations
- Identification Tests
- Quizzes
- Test Books
- bt **Measures (Individuals)**

## Textbooks

- uf Programed Texts
- Supplementary Textbooks
- bt **Books**
- Instructional Materials**

## Training Materials

- use **Instructional Materials**

## Training Modules

- use **Learning Modules**

## Training Aids

- use **Instructional Materials**

## Training Packages

- use **Instructional Materials**

## Transparencies

- uf Overhead Transparencies
- bt **Nonprint Media**
- Visual Aids**

## Video Cassette Systems

- use **Videotape Cassettes**

Video Tape Recordings  
use **Videotape Recordings**

Videodisc Recordings  
use **Videotape Cassettes**

**Videodisks**

uf Optical Videodisks  
Videodisc Recordings  
bt **Nonprint media**  
**Visual Aids**

Videotape Cartridges  
use **Videotape Cassettes**

Videotape Cassette Recorders  
use **Videotape Cassettes**

**Videotape Cassettes**

uf Video Cassette Systems  
Videotape Cartridges  
Videotape Cassette Recorders  
bt **Magnetic Tape Cassettes**

**Videotape Recordings**

uf Video Tape Recordings  
bt **Tape Recordings**  
**Visual Aids**

**Visual Aids**

uf Visual Equipment  
Visual Materials  
Visual Media

Visual Equipment  
use **Visual Aids**

Visual Materials  
use **Visual Aids**

Visual Media  
use **Visual Aids**

**Workshops**

uf Summer Workshops

**Workbooks**

bt **Instructional Materials**

**VENDOR TYPE (VT)**

Clearinghouse  
Network  
Private Sector Firms

**GEOGRAPHICAL LOCATION (GL)**

Two letter postal abbreviation; i.e., OR for Oregon

**EVALUATION UPDATE**

**PHASE III**

**A MODEL SYSTEM FOR THE DESIGN AND MAINTENANCE OF  
RELATED INSTRUCTION CURRICULUM FOR APPROVED  
U. S. DEPARTMENT OF LABOR APPRENTICESHIP  
OCCUPATIONS**

**CARL HORSTRUP, PROJECT DIRECTOR  
LANE COMMUNITY COLLEGE  
4000 EAST 30TH STREET  
EUGENE, OREGON 97405**

**SUBMITTED BY  
E. WAYNE COURTNEY, THIRD PARTY EVALUATOR  
3220 N. W. ARROWOOD CIRCLE  
CORVALLIS, OREGON 97330  
(503) 758-7325**

**MAY 31, 1989**

## INTRODUCTION

THE PROJECT IS PROGRESSING THROUGH ITS THIRD PHASE IN ACCORDANCE WITH THE GRANT'S OBJECTIVES. THIS UPDATE COVERS PROJECT ACTIVITIES WHICH HAVE BEEN CONCLUDED SINCE THE LAST PHASE III EVALUATION REPORT (DATED JANUARY 12, 1989). THE THIRD PHASE OF THE PROJECT HAS AS ITS MAJOR ROLES THE CONTINUING EVALUATION OF THE DIRECTORY AND MATERIALS DISSEMINATION.

THE FIELD EVALUATION OF THE DIRECTORY APPEARS TO BE COMPLETE WITH SITES REPRESENTING SELECTED STATES AND PROVINCES IN THE UNITED STATES AND AUSTRALIA PROVIDING DATA INPUT. THE RESULTS OF THESE DATA WERE INCLUDED IN THE LAST REPORT.

THE PROJECT CONTINUES TO RECEIVE PUBLICITY THROUGH A VARIETY OF INFORMATION RESOURCES. THE UNITED STATES APPRENTICESHIP ASSOCIATION (USAA) SENTINEL, THE OFFICIAL NEWLETTER FOR APPRENTICESHIPS, IS NOW LOCATED ADJACENT TO THE APPRENTICESHIP CLEARINGHOUSE PROJECT. INFORMATION WHICH IS PERTINENT TO THE CLEARINGHOUSE WILL BE GIVEN SPECIAL CONSIDERATION AS A RESULT OF THIS RELOCATION (SEE APPENDIX).

HARDWARE ITEMS FOR THE PROJECT ARE OPERATIONAL AT THE LANE COMMUNITY COLLEGE SITE. THE SOFTWARE FOR THE PROJECT HAS ALLOWED FOR THE CREATION OF AS MANY DATABASES AS THE COMPUTER HAS STORAGE CAPACITY. THE INPUT FORMAT FOR THE SYSTEM PROVIDES FOR THE USE OF A THESAURUS WHICH IS BASED TO A LARGE EXTENT UPON THE ERIC THESAURUS TERMS. THE UTILIZED FORMAT APPEARS TO ADEQUATELY MEET THE FUTURE REQUIREMENTS FOR THE PROJECT AS IT MOVES BEYOND PHASE III OF THE PROJECT.

**PHASE III PROGRESS**

THE FOLLOWING PROGRESS HAS BEEN MADE SINCE THE LAST REPORT IN FULFILLING PHASE III GOALS.

**OBJECTIVE 4.3. CONDUCT FIELD TEST ON CLEARINGHOUSE SERVICES.**

THE FINAL DATA WHICH WERE COMPILED ON THE EVALUATION OF THE DIRECTORY WERE GIVEN IN THE JANUARY 12TH REPORT. SINCE THAT TIME THERE HAS BEEN NO ADDITIONAL INPUT BY FIELD REVIEWERS. ALTHOUGH A FEW FIELD SITE REVIEWS ARE STILL PENDING, A DECISION WAS MADE TO FINALIZE THE RESULTS OF THE FIELD REVIEWS. THE INSTRUMENT USED TO GATHER THESE DATA WAS PROVIDED IN THE PREVIOUS REPORT. MEAN SCORES WERE COMPUTED FOR EACH OF FIVE (5) CRITERIA AND WERE BASED ON A 4-POINT SCALE. THE SUMMARY DATA ARE AS FOLLOWS:

CRITERIA	MEAN SCORE
ORGANIZATION OF THE DIRECTORY . . . . .	3.36
COMPLETENESS OF THE INSTRUCTIONS. . . . .	3.71
TECHNICAL ACCURACY OF THE CONTENT . . . . .	3.45 *
CLARITY OF THE INCLUDED CONTENT . . . . .	3.57
GENERAL UTILITY OF THE DIRECTORY FOR FIELD USE . . . . .	3.64

\* NOTE: THE EVALUATIONS FOR TECHNICAL ACCURACY REPRESENT 79% OF THE RESPONDING SITES. OTHERS REPORTED THAT THEY HAD NOT AS YET TESTED THE 'TECHNICAL ACCURACY OF THE CONTENT' CRITERION.

THESE MEASURES INDICATE A HIGH DEGREE OF ACCEPTANCE FOR THE UTILITY OF THE DIRECTORY AND ARE JUDGED TO BE VALID GAUGES OF THE FITNESS OF THESE MATERIALS FOR FIELD USE. A RECENT EVALUATION SUGGESTED THAT AN INDEX SHOULD BE ADDED TO THE DIRECTORY. (NOTE: THIS IS BEING IMPLEMENTED AS PER OBJECTIVE 4.5.2 CRITERIA.)



**OBJECTIVES 4.5 REVISE MODEL ACCORDING TO EVALUATIONS  
AND 6.1.3 FROM FIELD TEST SITES**

**KEY PROJECT PERSONNEL HAVE BEEN MADE AWARE OF THE RESULTS OF THE FIELD REVIEWS. ONLY A FEW MINOR CHANGES ARE NECESSARY TO THE MODEL AS A RESULT OF THESE EVALUATIONS.**

**OBJECTIVE 5.1. DEVELOP MAILING LISTS OF INSTITUTIONS,  
PRIVATE FIRMS AND ORGANIZATIONS THAT ARE  
POTENTIAL USERS OF APPRENTICESHIP MATERIALS.**

**THE PROJECT HAS BEEN ENDORSED BY SEVERAL MAJOR APPRENTICESHIP GROUPS AND ORGANIZATIONS, INCLUDING THE U.S. DEPARTMENT OF LABOR AND THE AMERICAN ASSOCIATION OF COMMUNITY AND JUNIOR COLLEGES (SEE APPENDIX). HARDCOPIES OF THE APPRENTICESHIP MATERIALS WILL BE MADE AVAILABLE FOR DISTRIBUTION AT THE NATIONAL CURRICULUM COORDINATORS VOCATIONAL-TECHNICAL EDUCATION MEETING TO BE HELD AT KANSAS CITY DURING JULY 9-12, 1989. VENDORS HAVE GIVEN WRITTEN PERMISSION TO COPY THEIR MATERIALS.**

**OBJECTIVE 5.2. DEVELOP INFORMATION PACKAGE FOR  
DISSEMINATION.**

**INFORMATION SHEETS WILL BE COMPLETED PRIOR TO THE NNCCVTE MEETING TO BE HELD IN KANSAS CITY DURING JULY 9-12, 1989. CLEARINGHOUSE BROCHURES HAVE BEEN MADE AVAILABLE ON A REQUEST BASIS FROM THE PROJECT DIRECTOR'S OFFICE ON THE LANE COMMUNITY COLLEGE CAMPUS.**

OBJECTIVE 3.1 ESTABLISH A COMPUTERIZED DATABASE.  
OBJECTIVE 7.3 CONTINUE TO UPDATE AND EXPAND THE  
MATERIALS RESOURCE BANK FOR QUALITY IMPROVEMENT

THE DATABASE RECORDS HAVE BEEN DOWNLOADED INTO THE UNIX SYSTEM. THE MATTER OF POSSIBLE COPYRIGHT INFRINGEMENT HAS CREATED SOMEWHAT OF A PROBLEM; HOWEVER, THE RESTRUCTURING OF THE DOWNLOADED RECORDS PRECLUDES DUPLICATION INTO ANY COPYRIGHT DATABASES. A TOTAL OF 2647 RECORDS ARE BEING READ INTO THE PROGRAM FOR PURPOSES OF INITIAL USE. ABSTRACTS WILL NOT BE LOADED BECAUSE OF POTENTIAL COPYRIGHT ISSUES. TO DATE, RECORDS HAVE BEEN UTILIZED FROM THE FOLLOWING BASES:

NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)  
(341 RECORDS)  
VOCATIONAL EDUCATION CURRICULUM MATERIALS (VECM)  
(745 RECORDS)  
RESEARCH IN VOCATIONAL EDUCATION (RIVE)  
(543 RECORDS)  
ERIC (1008 RECORDS)

THE PROJECT HAS PURPOSELY AVOIDED THE ONTARIO EDUCATION REPORTS (ONED), AV ONLINE MULTIMEDIA, AND NICEM DOCUMENTS BECAUSE OF THE COPYRIGHT MATTER. THE POLICY OF THE PROJECT STAFF IS TO NOT DEAL WITH THE COPYRIGHT DATABASE ISSUE.

VENDOR DOCUMENTATION SHOWING DATABASE FIELDS AND CODING INFORMATION IS SHOWN IN THE APPENDIX. MODIFICATIONS HAVE BEEN MADE IN THE MATERIALS RESOURCE BANK FOR PURPOSES OF ALLOWING FOR A BROADER SPECTRUM OF USER NEEDS.

A DIRECTORY OF COMPANY INFORMATION THESAURUS HAS BEEN DESIGNED TO FACILITATE THE DATABASE OPERATION. AS THE DOCUMENTATION OF THE VENDORS IS COMPLETED, THE DATABASE MAY BE SEARCHED BY SPECIFIC TOPICS IN THE MATERIAL TYPE (MT) FIELD BY COMPANY NAME, LOCATION, AREA CODE, ETC. THE INPUT FORM CONTAINS A BASIC INFORMATION CAPABILITY WITH THE ADDITION OF A FAX NUMBER, WITH THE TELEPHONE NUMBER BEING SPLIT INTO TWO FIELDS, LISTING TOLL AND TOLL-FREE STATUS. IN USING THE FIELD FOR MATERIAL TYPE (MT), THE WORDS USED FOR INPUT NEED TO COME FROM THE THESAURUS (SEE APPENDIX B) TO INCLUDE ALL WORDS THAT APPLY; THE USERS MAY USE UP TO FIFTEEN TERMS. WITHIN THE THESAURUS, THE BOLD FACED WORDS ARE THE PREFERRED TERMS TO BE USED IN THE MT FIELD. UF



REPRESENTS 'USED FOR' AND BT MEAN 'BROADER TERM'. FOR EVERY TERM PLACED INTO THE MT FIELD THERE WILL BE A BT TERM FOR THE DESCRIPTOR FIELD, WHICH WILL BE USED TO BUILD A SUBJECT INDEX FOR THE COMPANY DIRECTORY AT PUBLICATION TIME. THE GEOGRAPHICAL FIELD AND THE VENDOR TYPE FIELDS ARE ALSO SORT FIELDS WHICH MAY BE UTILIZED SHOULD THE DECISION BE MADE TO PUT OUT A PAPER DIRECTORY. THE FINISHED PRODUCT WOULD CONTAIN AT LEAST THREE SECTIONS LISTING THE RESOURCE BY MATERIAL TYPE, VENDOR TYPE, AND BY GEOGRAPHICAL LOCATION. THE VOCABULARY WILL BE MODIFIED OVER TIME TO REFLECT THE DEMANDS AND NEEDS OF THE PROJECT. WHEN THE PROCESS OF DOCUMENTING VENDORS IS COMPLETE, IT WILL BE POSSIBLE FOR THE USER TO OBTAIN A PRINTED DIRECTORY WHICH IS CREATED BY DOWNLOADING AN ASCII FILE AND EDITING IT WITH DESKTOP PUBLISHING SOFTWARE, ACTUAL REMOTE COMPUTER SEARCHING, OR DOWNLOADING SPECIFIC LISTS TO EITHER 5 1/4 OR 3 1/2 INCH FLOPPY DISKS. (NOTE: THE ABOVE INFORMATION WAS INCLUDED IN THE PREVIOUS EVALUATION REPORT.)

THE PROJECT CONTINUES TO PROCEED ACCORDING TO THE GRANT PROPOSAL SCHEDULE.

**APPENDIX**

**CLEARINGHOUSE SUPPORT LETTERS  
(USDL AND AACJC)**

**USAA SENTINEL (APRIL 1989)**

**FIPSE/LCC APPRENTICESHIP CLEARINGHOUSE  
DATABASE EXAMPLES**



JAN 18 1989

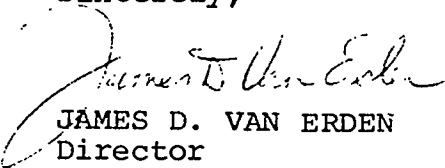
Mr. Carl Horstrup  
Director  
Apprenticeship Clearing House  
Project  
Lane Community College  
1059 Willamette Street  
Eugene, Oregon 97401

Dear Carl:

This is in response to your letter of January 3, 1989, requesting my support and endorsement of the Apprenticeship Clearing House Project of which you are the Director. We understand that your project will provide a ready reference and guide to information and material available, including available related instruction curriculum study material.

The Department of Labor's Apprenticeship 2000 Initiative undoubtedly will provide for a broad expansion of the Apprenticeship concept of training and I do support projects such as yours and appreciate you keeping me advised of the current status of your project.

Sincerely,

  
JAMES D. VAN ERDEN  
Director  
Bureau of Apprenticeship and Training



American Association of  
Community and Junior Colleges

January 9, 1989

Carl Horstrup  
F.I.P.S.E. Clearinghouse Director  
Lane Community College  
4000 East 30th Avenue  
Eugene, Oregon 97405

Dear Carl:

Thanks for keeping me up to date on the college's FIPSE-funded apprenticeship program. It was a great idea to begin with and your work on it establishes its value.

At the moment I am working directly with Tradenet, the computer firm in Arizona that manages the AACJC electronic network, concerning the creation of a special database to house your resource directory. As we discussed, I want them to set up the system so that we can organize the material in a way that will encourage its use by our network members. We want users to be able to access particular topics, programs, and specialties quickly, efficiently, and comprehensively with as little keying as possible. We also want to set up the system so that Lane Community College can update and improve the database as frequently as is necessary.

Using our ACCESS network in combination with other dissemination options will make it possible for you to share the results of your work most effectively.

Your material will make an important contribution to ACCESS, Carl. Thanks for thinking of us. I'll let you know when the Tradenet details are set.

Sincerely,

Jim Mahoney  
Director of Administrative and Computing Services

AACJC Annual Convention  
March 29 - April 1, 1989 - Washington, D.C.  
Building For A New Century

**dedicated exclusively to the protection and betterment of apprenticeship.**

January 20, 1989

Mr. Carl Horstrup, Coordinator  
Apprenticeship & Special Training  
Lane Community College  
4000 East 30th Avenue  
Eugene, OR 97405

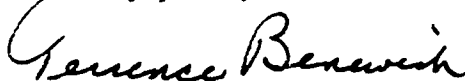
Dear Mr. Horstrup:

The Board of Directors is pleased to appoint you as Executive Secretary of the United States Apprenticeship Association. We are extremely happy that you have agreed to accept. We would appreciate it if you would take steps to meet with us as soon as your schedule permits, here in Madison.

If you will contact Mr. Nye when you have arranged your schedule, we will be available to meet with you and assist in the transition.

Again, we are looking forward to working with you.

Sincerely yours,



Terrence Benewich  
Board Cochairman

TB:mjh

cc: Board Members

APRIL 1989

STATE LABOR LEGISLATION ENACTED IN 1988

Recent legislative trends continued with significant laws enacted in a wide array of labor standards areas including minimum wage, mandatory retirement, AIDS testing, and parental leave according to a recent report by Richard R. Nelson, State Standards Advisor in the Division for USDL Employment Standards Administration. Office of State Liason and Legislative Analysis. Various State labor legislation enacted in 1988 covered a wide variety of employment standards subjects and included several significant new laws. The year was also notable for several important general election ballot initiatives. Among these measures addressed were both traditional labor standards fields such as minimum wage and child labor protection and bans on mandatory retirement and other forms of employment discrimination, and the newer subjects of workplace AIDS and drug testing, parental leave, and asbestos abatement.

Wages. Minimum wage continued as a major issue in 1988 with new legislation or wage orders increasing minimum rates in GUAM, KANSAS, MAINE, PENNSYLVANIA, RHODE ISLAND, SOUTH DAKOTA, VERMONT, the VIRGIN ISLANDS, and the DISTRICT OF COLUMBIA for employees in hotel and restaurant occupations, and PUERTO RICO for employees in the hotel and construction industries. An additional seven states had rate increases in 1988 as the result of prior legislation. Also, an initiative on the WASHINGTON STATE ballot in the November general election to provide for an increase in the State rate and to extend coverage to farmworkers and domestic service employees was approved by the voters. The trend in recent legislative and administrative actions has been to increase rates above the \$3.35 per hour Federal standard in effect since 1981; in fact, the DISTRICT OF COLUMBIA, MAINE, RHODE ISLAND and VERMONT which had already surpassed the Federal level, adopted even higher rates. Fifteen jurisdictions now exceed the Federal rate for some or all employees (this number will rise to 16 on February 1, 1989 when the PENNSYLVANIA increase becomes effective), with the highest rates being \$4.25 an hour in CALIFORNIA, CONNECTICUT and the VIRGIN ISLANDS: \$4.00 an hour in RHODE ISLAND and in PUERTO RICO for office, supervisory, and skilled workers in the construction industry; and from \$3.50 to \$4.85 an hour in the DISTRICT OF COLUMBIA, depending on the industry.

Parental Leave. States continued to take the lead in legislation addressing the subject of parental leave. A new law in MAINE requires private sector employers and local government with 25 or more employees and the State to grant up to 8 weeks of unpaid family medical leave in any 2 years for the birth or adoption of a child, or for the serious illness of the employee, child, parent, or spouse. In WISCONSIN, employers of 50 or more workers in the private sector and the state government must provide unpaid family or medical leave of up to 6 weeks for the birth or adoption of a child; 2 weeks to care for a child, spouse, or parent with a serious health condition; and 2 weeks personal medical leave within a 12-month period. In both cases, employees returning from such leave are entitled to reinstatement in the same or equivalent position without loss of benefits. (The legislature in HAWAII requested a study of the feasibility of enacting such a statute.)

Child Labor. Child labor amendments addressed a variety of youth employment issues. A growing concern was reflected in a NEW HAMPSHIRE enactment where, as part of a literacy and school dropout prevention program, the Youth Employment Law was amended to limit the school week work hours of 16- and 17-year olds and a committee was created to examine, among other things, the relationship between the number of hours per week that a student works or participates in sports and the student's academic achievement. In other significant developments, monetary penalties were substantially increased for child labor violations in WISCONSIN; in RHODE ISLAND, authority to declare places or occupations as hazardous for minors under 16 years of age was transferred from the Department of Health to the Department of Labor; and in MICHIGAN, new regulations were issued making hazardous occupation provisions more detailed and more consistent with Federal standards and requiring closer supervision of minors in the workplace.

Discrimination. The age 70 upper limit of protection from age discrimination or mandatory retirement provisions was removed from both private and public sector employees by amendments to laws in IDAHO, KANSAS, SOUTH CAROLINA and TENNESSEE, and for various public sector employees by amendments in ARIZONA, the DISTRICT OF COLUMBIA, and MARYLAND. MARYLAND also enacted a law requiring that a prohibition against employment discrimination based on age be included in the required nondiscrimination clause in all State procurement contracts. In MASSACHUSETTS, certain groups of State and municipal public safety employees may now work beyond age 65 with annual certification. Some of this State activity was likely in response to federal Age Discrimination in Employment Act amendments, effective January 1, 1987, which included removal of the age-70 upper limit on coverage in private and public sector employment.

Employee testings. The highly controversial testing of employees, either for drug or alcohol abuse or for the presence of AIDS virus (HIV) antibodies continued to be the subject of proposed legislation in several jurisdictions. Drug testing legislation was enacted in NEBRASKA, KANSAS, and TENNESSEE. In NEBRASKA,

public and private employers of 6 or more may require employees to submit to drug or alcohol testing under penalty of dismissal or other disciplinary or administrative action for refusal to be tested. KANSAS authorized establishment of a drug screening program for persons taking office as governor, lieutenant governor, or attorney general and for those applying for safety sensitive positions in State government, and Department of Correction security personnel in TENNESSEE may be tested upon reasonable suspicion that an employee's faculties are impaired on the job and that a danger exists because of the impairment. Laws prohibiting employers from requiring a test for the presence of an AIDS virus infection as a condition of employment and from discriminating in employment on the basis of a positive test were enacted in FLORIDA, IOWA, RHODE ISLAND and VERMONT.

Safety and Health. Again in 1988, as in recent years, most of the legislation dealing with worker safety and health concerned the right of workers to be informed of and given training on chemical hazards in the workplace, asbestos abatement, and restrictions on workplace smoking. New comprehensive right-to-know laws were enacted applicable to agencies of the Government of GUAM and to public sector employers in GEORGIA. Both laws provide for notification to employees of hazardous substances in the workplace and for safety training. Of the remaining right-to-know laws, half were amendments incorporating provisions required by the Federal Emergency Planning and Community Right-to-Know Act of 1986. In related court action, a provision of the MASSACHUSETTS law, limiting the disclosure of information about the presence of hazardous substances in the workplace to those authorized to receive it, was declared unconstitutional as an unwarranted restriction on freedom of speech.

#### INTERNATIONAL BROTHERHOOD OF CARPENTER'S RESPONSE TO APPRENTICESHIP 2000

The following are highlights from the respective topics of IBC response. Promotion: we suggest establishing a national system of pre-apprenticeship, structured somewhat like Job Corps. Technical Assistance: establishment of minimum national standards for occupations which are apprenticeable. Recognition: true recognition will come only when we have consistent quality in apprenticeship. Delivery System: the only delivery system we support is the joint labor/management committee which insures that apprenticeship remains an industry function. Help Subsidize Related Instruction: at no time should sponsors of apprenticeship be allowed to take more than 50% public funding to support related training. Lower Costs of Doing Business: the apprenticeship community should lobby for legislation requiring that insurance companies give discounts to employers using apprentices. Contact Preference: a very important part of the work falls on the shoulders of BAT and the state registering agencies. It is their responsibility to get together and establish a federal/state registration system, so that uniform national standards can be established for every apprenticeable occupation.



APPRENTICESHIP CONFERENCES

- May 3-5 Virginia Apprenticeship Conference, Radison Hotel, Lynchburg, VA
- May 21-26 Eastern Seaboard Apprenticeship Conference, Hartford, CT
- May 23-25 Michigan Apprenticeship Conference, Westin Hotel, Detroit, MI
- June 5-11 Western Apprenticeship Coordinators Conference, Vancouver, B.C. Canada
- June 25-28 Arizona Apprenticeship Instructors Seminar, Prescott, AZ
- July 10-14 National Association of State and Territorial Apprenticeship Directors (NASTAD) Conference, Sheraton Princess Kaiulani Hotel, Honolulu, HI
- July 11-13 Southern States Apprenticeship Conference, Hyatt Regency Hotel, Atlanta, GA
- July 27-28 California Apprenticeship Council Meeting, San Diego, CA

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UNITED STATES APPRENTICESHIP ASSOCIATION  
PO BOX 70600, EUGENE, OR 97401

Renewal  New Member Annual Dues \$20/1 year; \$35/2 years

Name \_\_\_\_\_  
Last First Initial

Title \_\_\_\_\_ Firm \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Phone \_\_\_\_\_

Representative of:  Employer  Journeyman  Voc. Ed.

Federal Government  Apprenticeship  Coordinators

Other (please specify) \_\_\_\_\_

Please return this form with payment.

## FIPSE / LCC Apprenticeship Clearinghouse

### Phase I

Total number of records currently being loaded: 2,647

Initial database structure excludes abstracts

### Phase II

Reload records to include abstracts

Update file with recent publications

### Phase III

Evaluate other sources of information to be used in addition to the original group

CO COMPANY NAME: Advanced Machinery Imports Ltd.  
AD STREET ADDRESS: PO Box 312.  
CY CITY: New Castle.  
ST STATE: DE.  
ZP ZIP CODE: 19720.  
TE TELEPHONE NUMBER: 302-322-2226.  
VT VENDOR TYPE: Private Sector Firm.  
GL GEOGRAPHICAL LOCATION: Delaware.  
MT MATERIAL TYPE: Mechanical Equipment.  
DE DESCRIPTORS: Equipment.  
ID IDENTIFIERS: Construction. Cabinetmaking.  
NT NOTE: High end speciality woodworking machinery and accessories.

AU AUTHOR: Matus, Jose R.  
IN AUTHOR AFFILIATION: Tohono O'odham Nation Skill Center, PO Box 837,  
Sells, AZ 85634.  
TI TITLE: Tohono O'odham Nation Skill Center.  
SN SPONSORING AGENCY: Office of Vocational and Adult Education (ED),  
Washington, DC.  
NO NUMBERS: GN: G008420055. PN: 101AH10056.  
YR YEAR: 1987.  
LG LANGUAGE: English.  
GS GEOGRAPHICAL SOURCE: United States. Arizona.  
TA TARGET AUDIENCE: Student.  
EL EDUCATIONAL LEVEL: High School (10-12).  
MT MATERIAL TYPE: Training Program.  
DE DESCRIPTORS: American-Indians. Job-Skills. Job-Training.  
Bookkeeping. Carpentry. Construction-Industry.  
Electrical-Occupations. Machine-Translation. Masonry.  
Office-Occupations-Education. Plumbing. Reprography.  
Reservation-American-Indians. Skill-Development. Word-Processing.  
ID IDENTIFIERS: Federal. Research Proposals. Tohono O'odham Nation.  
NT DESCRIPTIVE NOTE: Start Date 01 Oct 84; End Date 30 Sep 87. This  
project was previously funded under grant G008101058. Continuation  
of CC015058.

AU AUTHOR: Shebala, Gene.  
IN AUTHOR AFFILIATION: Pueblo of Zuni, PO Box 339, Zuni, NM 87327.  
TI TITLE: Zuni Apprenticeship Training Program.  
SN SPONSORING AGENCY: Office of Vocational and Adult Education (ED),  
Washington, DC.  
NO NUMBERS: GN: G008620021.  
YR YEAR: 1988.  
LG LANGUAGE: English.  
GS GEOGRAPHICAL SOURCE: United States. New Mexico.  
TA TARGET AUDIENCE: Student.  
EL EDUCATIONAL LEVEL: Adult.  
MT MATERIAL TYPE: Training Program.  
DE DESCRIPTORS: Adult-Vocational-Education. American-Indians.  
Job-Training. Building-Trades.  
ID IDENTIFIERS: Federal. Research Proposals. Grants. Zuni (Pueblo).  
NT DESCRIPTIVE NOTE: Start Date 03 Feb 86; End Date 02 Feb 88.

AU AUTHOR: Oretaga, Mel.  
IN AUTHOR AFFILIATION: Papago Tribe, PO Box 837, Sells, AZ 85634.  
TI TITLE: The Papago Skill Center.  
SN SPONSORING AGENCY: Office of Vocational and Adult Education (ED),  
Washington, DC.  
NO NUMBERS: GN: G008400055.  
YR YEAR: 1987.  
LG LANGUAGE: English.  
GS GEOGRAPHICAL SOURCE: United States. Arizona.  
TA TARGET AUDIENCE: Student.  
EL EDUCATIONAL LEVEL: Adult.  
MT MATERIAL TYPE: Training Program.  
DE DESCRIPTORS: Adhesives. Carpentry. Construction-Industry.

AU AUTHOR: Guilar, Joshua R. D.  
IN AUTHOR AFFILIATION: Oregon Alliance for Program Improvement, Corvallis.  
TI TITLE: Oregon Cabinetmakers and Woodworkers Apprenticeship Training Curriculum.  
Instructor's Manual.  
YR YEAR: 1985.  
PG PAGINATION: 141p.  
AV AVAILABILITY: ERIC. ED275830.  
LG LANGUAGE OF PUBLICATION: English.  
GS GEOGRAPHIC SOURCE: United States. Oregon.  
TA TARGET AUDIENCE: Teachers. Practitioners.  
DE DESCRIPTORS: Apprenticeships. Cabinetmaking. Equipment-Utilization.  
Machine-Tool-Operators. Trade-and-Industrial-Education. Woodworking.  
Assembly-Manufacturing. Construction-Materials. Finishing. Hand-Tools.  
Machine-Tools. Postsecondary-Education. State-Curriculum-Guides.  
NT DESCRIPTIVE NOTE: Also sponsored by the Portland Millmen and Cabinetmakers Joint  
Apprenticeship Training Committee.  
AB ABSTRACT: This curriculum guide is to be used in the classroom for the purpose of training  
apprentices in the cabinetmaking and millwork trades. The guide focuses on a step-back  
hutch that can be made in the traditional, colonial/country, and contemporary furniture  
styles. There are 12 units covering the following topics: materials, planning processes,  
machine processes, and assembly. The units are made up of a unit outline, list of  
supplemental reading materials, term notes, and a series of class outlines. In addition  
there are lecture/demonstration outlines, parallel listings of tasks and project steps, and  
notes to the instructor. The curriculum can be used at any time during the four-year cycle.  
The curriculum stresses teamwork in the workplace.

21 May 1989

MEMORANDUM

TO: Wayne

FROM: Karen

RE: Field labels for the two databases.

The database that includes the curriculum, research, and journal material from the four databases I told you about have all been reformatted to include the following labels:

AU	Author
IN	Author Affiliation
TI	Title
SO	Source
SN	Sponsoring Agency
NO	Numbers
YR	Year
PG	Pagination
AV	Availability
CI	Copyright Information
LG	Language of Publication
GS	Geographic Source
TA	Target Audience
EL	Educational Level
MT	Material Type
MS	Material Status
DE	Descriptors
ID	Identifiers
NT	Descriptive Note
AB	Abstract

Not all the records will have all the fields. The initial load will be without abstracts because I do not care to set myself up for problems with copyright even on files that are technically not copyrighted. Cautious maybe. Wise probably.

The database that will hold the vendor information has the following fields:

CO	Company Name
AD	Address
CY	City
ST	State
ZP	Zip Code
TE	Telephone Number
TF	Toll Free Number
FN	Fax Number
CP	Contact Person
VT	Vendor Type
GL	Geographical Location
MT	Material Type
DE	Descriptors
ID	Identifiers
NT	Note

Again not all the records will have all the fields. All the vendors from the list that Burr put together have been loaded into a file. I am going to set the file up so that Carl can go ahead and produce the vendor directory part of his project. He needs to see some results. The electronic version will be safely held on the computer in his office until it can be loaded online.

I hope this is what you wanted. Give me a call at home if you need more. I will not be going back to work until June 5. I will either be at home working or in Eugene staring at Carl's computer.