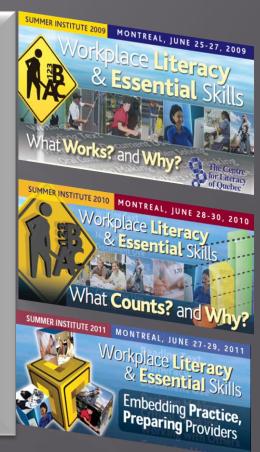


Part 3

Tom Sticht
International Consultant in
Adult Education



Schedule

Part 1. 09:00-10:30am Introduction to the workshop. Overview of theories, methods, and professional wisdom in the history of workplace literacy and FCE.

10:30-10:45 Break

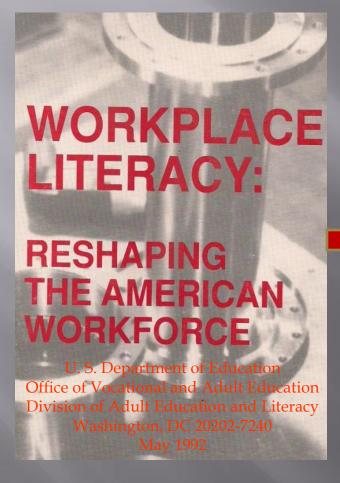
Part 2. 10:45-12:00 Scientific research on FCE and workplace literacy leading to the National Workplace Literacy Program (NWLP) in the United States

12:00-12:30pm Lunch

Part 3. 12:30-02:00 Workplace literacy and workforce development research and programs following the NWLP

02:00-02:15 Break

Part 4. 02:15-03:30 Contemporary projects on contextualizing and integrating program design and engaging employers and employees.



Professional Development for Workforce Education & Lifelong Learning Specialists (WELLS)

Workplace Literacy Programs

Resources for Program Design, Assessment, Testing, & Evaluation

Thomas G. Sticht

May 1995



Applied Behavioral & Cognitive Sciences, Inc. 2062 Valley View Blvd. El Cajon, CA 92019-2059 (619) 444-9595



Promising Strategies for Involving Employers in Skills Development Efforts

Sectoral Training Programs

Sectoral training programs are another important strategy for involving employers in skill development. Interest in the sectoral approach is growing across the country, and several new initiatives have emerged in recent years. This strategy focuses on an industry or a small set of industries and develops industry-specific expertise that supports the design and operation of training programs.

WorkFORCE Education and Training

Incumbent Worker Training

One important strategy for strengthening employer involvement in training for low-skill workers is to improve the design of incumbent worker training programs to reach this population more effectively. This approach generally provides public funds (usually from employer taxes) to individual employers or a consortium of employers to upgrade the skills of current employees or train new hires.

WorkPLACE Education and Training

Functional Context Education and Workplace Literacy

the





Functional Context **Education Explored**

Professional Development for Workforce Education & Lifelong Learning Specialists (WELLS)

Workplace

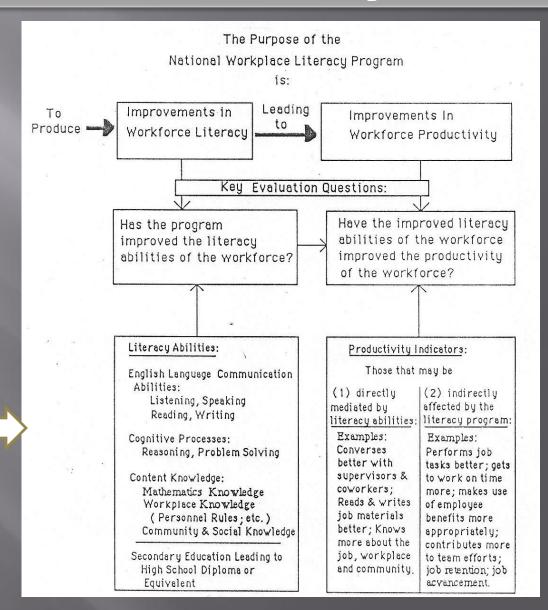
Literacy **Programs**

Resources for Program Design, Assessment, Testing, & Evaluation

Thomas G. Sticht



Applied Behavioral & Cognitive Sciences, Inc. 2062 Valley View Blvd. El Cajon, CA 92019-2059 (619) 444-9595



Evaluating Workplace Literacy Programs



INTERNATIONAL SPECIAL REPORT



Transferring literacy skills in the workplace

John Benseman describes a study from New Zealand that assesses whether lessons learnt in the classroom reach the workplace

Four levels

The project used Kirkpatrick's evaluation model, in which transfer of new LLN* skills back into the workplace equates with Level 3.

Level 4: Results	To what degree targeted outcomes occur, as a result of the learning event(s) and subsequent reinforcement.
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Level 1: Reaction	To what degree participants react favourably to the learning event.

(1) Kirkpatrick, J. and Kayser Kirkpatrick, W. (2009) The Kirkpatrick four levels: a fresh look after 50 years, 1959-2009. www. managesmarter.com/managesmarter/ images/pdfs/trg 20090417 kirkpatrickwhitepaper.pdf



Part I

Vestibule Training: Basic Skills for New Hires

> A Work in America Institute National Policy Study

Washington, DC

American Federation of State, County,

and Municipal Employees,

American Federation of Teachers

American Telephone and Telegraph Morristown, New Jersey

District Council #37

New York, New York

Washington, DO

Chicago, Illinois

Atlanta, Georgia

Towson, Maryland

Seattle, Washington

New York, New York

CIBA-GEIGY Corporation

Eastman Kodak Company

General Electric Company

General Motors Corporation

International Brotherhood of

International Union of Bricklayers

Bridgeport, Connecticut

& Allied Craftsmen

Electrical Workers

Deere & Company

Rochester, New York

Exxon Corporation

New York, New York

Detroit, Michigan

Washington, DC

Washington, DC

Moline, Illinois

Caterpillar Inc.

Peoria Illinois

The Boeing Company

BellSouth Corporation

Black and Decker Corporation

Bristol-Myers Squibb Company

Champion International Corporation

Communications Workers of America

Ameritech



Part II

Meeting the Challenge of Change:
Basic Skills for a Competitive Workforce

A Work in America Institute National Policy Study



The Productivity Forum

International Ladies'
Garment Workers' Union

Johnson & Johnson International New Brunswick, New Jersey

Leaseway Transportation Corporation Specialized Transportation Group Birmingham, Michigan

LTV Steel Company Cleveland, Ohio

Merck & Company, Inc. Rahway, New Jersey

Metropolitan Transportation Authority New York, New York

Miller Brewing Company Milwaukee, Wisconsin

Minnesota Power Duluth, Minnesota

Motorola Inc. Schaumburg, Illinois

National Association of Letter Carriers Washington, DC

NBC Inc. New York, New York

Nestle Enterprises, Inc. Purchase, New York

New England Medical Center Boston, Massachusetts

New York City Department of Sanitation

New York, New York

New York City Human Resources
Administration

New York, New York

New York City Mayor's Office
of Operations

New York State Department of Civil Service Albany, New York New York State Department of Labor Albany, New York

New York State Governor's Office of Employee Relations Albany, New York

New York State Office of Mental Retardation and Developmental Disabilities Albany New York

Philip Morris USA New York, New York

Potlatch Corporation Lewiston, Idaho

Public Employee Department, AFL-CIO Washington, DC

Sarnia Manufacturing Centre, Shell Canada Limited Corunna, Ontario

Saturn Corporation Spring Hill, Tennessee

Scott Paper Company Philadelphia, Pennsylvania

Service Employees International Union Washington, DC

Southwestern Bell Telephone Company

State University of New York, Nelson A. Rockefeller College of Public Affairs & Policy Albany, New York

The Travelers Companies Hartford, Connecticut

United Automobile Workers of America

United States Postal Service Washington, DC

United Steelworkers of America Pittsburgh, Pennsylvania

Weirton Steel Corporation Weirton, West Virginia 1991-93 Functional Context Education and Workplace Literacy Disseminated to Fortune 500 Companies



Part III

Moving Ahead:
Basic Skills for Career Advancement

A Work in America Institute National Policy Study

Three Uses of Workplace Literacy Education

Workplace Literacy For Transitioning New Hires Into Employment Workplace Literacy for Helping Employees Meet New Demands of Workplace Change Workplace Literacy for Helping Employees Gain Upward Mobility in Their Employment

Job-Linked Literacy:
Innovative Strategies at Work

Part I

Vestibule Training: Basic Skills for New Hires

> A Work in America Institute National Policy Study

Job-Linked Literacy:
Innovative Strategies at Work

Part II

Meeting the Challenge of Change:
Basic Skills for a Competitive Workforce

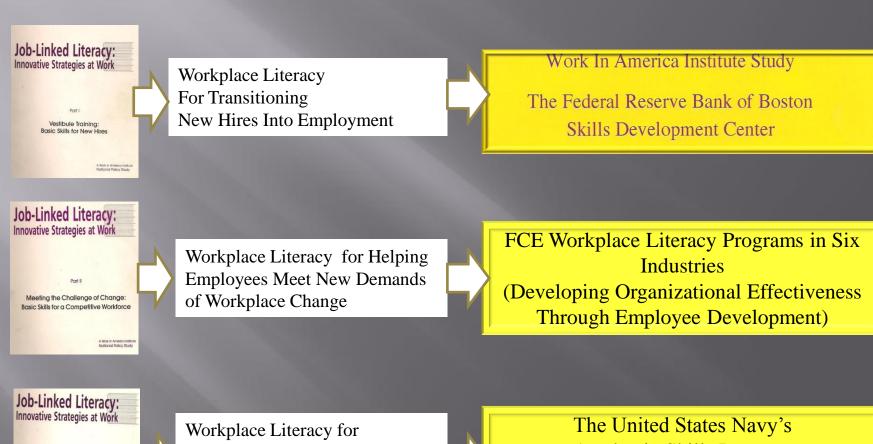
A Work in America Institute National Policy Study Job-Linked Literacy:
Innovative Strategies at Work

Part II

Moving Ahead:
Basic Skills for Career Advancement

A Work in America Institute National Policy Study

Three Workplace Literacy Programs

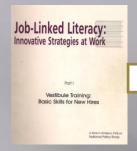


Job-Linked Literacy:
Innovative Strategies at Work

Part III

Moving Ahead:
Basic Skills for Career Advancement

Workplace Literacy for Helping Employees Gain Upward Mobility in Their Employment The United States Navy's
Academic Skills Program
for Upward Mobility and Career
Advancement



Workplace Literacy
For Transitioning
New Hires Into Employment



Work In America Institute Study

The Federal Reserve Bank of Boston Skills Development Center

Work In America Institute Study

The Federal Reserve Bank of Boston Skills Development Center

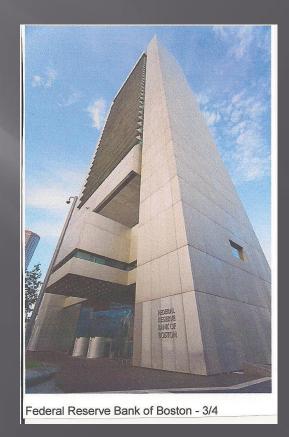
Problem: Recruiting sufficient qualified workers in response to higher turnover rates

Response: Established the Skills Development Center to train less educated and experienced new hires in personal life management, basic skills, and job skills for 6-12 months with training pay and benefits

Students mostly young, minority, females

Train in an open classroom integrated into the personnel department

Spend some time in work experience in different bank departments



Job-Linked Literacy: Innovative Strategies at Work

> Vestibule Training: Basic Skills for New Hires

Workplace Literacy
For Transitioning
New Hires Into Employment

Work In America Institute Study

The Federal Reserve Bank of Boston Skills Development Center



John Benseman





Transferring literacy skills in the workplace

Work In America Institute Study

The Federal Reserve Bank of Boston Skills Development Center

Outcomes:

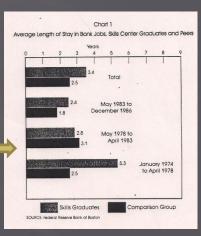
Skills center trainees sometimes filled short term, temporary jobs in the bank thereby reducing costs by one-half for outside temporary workers

Length of service longer than for fully qualified regular hires thereby reducing recruitment and replacement costs

Out year wages of Center graduates were similar to those of fully qualified employees indicating comparable productivity and job performance

66% completed program





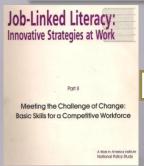
Four levels

The project used Kirkpatrick's evaluation model, in which transfer of new LLN* skills back into the workplace equates with Level 3.

Level 4: Results	To what degree targeted outcomes occur, as a result of the learning event(s) and subsequent reinforcement.
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Level 1:	To what degree participants react favourably to the learning
Reaction	event.





Workplace Literacy for Helping Employees Meet New Demands of Workplace Change



FCE Workplace Literacy Programs in Six Industries

(Developing Organizational Effectiveness Through Employee Development)

Problem: Study of six industries in Chicago area found some 30-50 percent were lacking or weak in basic English, literacy, or mathematics skills needed to work in new Total Quality Management (TQM) environment.



Burgess-Norton Mfg. Co. develops and manufactures piston pins, shafts, powdered metal parts, castings and keys, and sub-assemblies.

ITT McDonnell & Miller manufactures boiler feeders, water cutoffs, steam vents and pressure regulators.

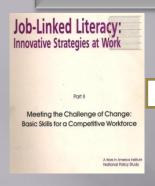
John Crane, Inc. manufactures mechanical cells for pump companies, the automotive industry, and other petroleum-related businesses.

Phoenix Closures, Inc. develops, manufactures and markets closures, fitments and container sealing systems used in packaging a wide range of consumer, industrial and institutional products.

Tricon Inductries, Inc. manufactures custom inserted molded components for the automotive industry and switches for the appliance industry.

Videojet Systems International is a subsidiary of A. B. Dick Company and manufactures continuous stream ink jet processing printers and specialty inks.





Workplace Literacy for Helping Employees Meet New Demands of Workplace Change

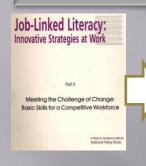


FCE Workplace Literacy Programs in Six
Industries
(Developing Organizational Effectiveness
Through Employee Development)



Linda Mrowicki Sarah Newcomb Approach: Workplace education programs were implemented that integrated work-related skills with language, literacy, or mathematics skills.

Each industry training site established an Employee/Employer Basic Skills Committee to make joint decisions on program design and implementation; a Site Coordinator was appointed; industry personnel worked with adult educators from a local government skills center who developed and delivered the program.

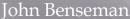


Workplace Literacy for Helping Employees Meet New Demands of Workplace Change



FCE Workplace Literacy Programs in Six Industries (Developing Organizational Effectiveness Through Employee Development)









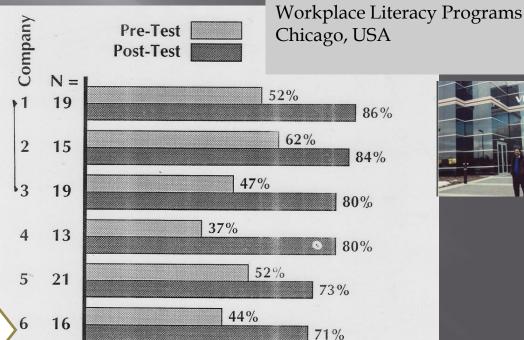
Transferring literacy skills in the workplace

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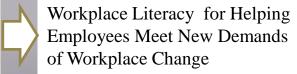
Percent correct on job-related ESL /Literacy Tests

Job-Linked Literacy: Innovative Strategies at Work

Dort II

Meeting the Challenge of Change: Basic Skills for a Competitive Workforce

> A Work in America institute National Policy Study





FCE Workplace Literacy Programs in Six Industries

(Developing Organizational Effectiveness Through Employee Development)



The majority of the employees themselves said that the workplace literacy programs had helped them not only at work, but also at home and in the community, and most were stimulated to seek further education.

Effects of Workplace Literacy Programs in the Chicago Area, 1994

John Benseman

INTERNATIONAL SPECIAL REPORT



Transferring literacy skills in the workplace

John Benseman describes a study from New Zealand that assesses whether lessons learnt in the classroom reach the workplace

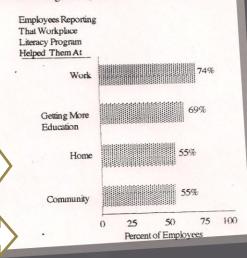
Four levels

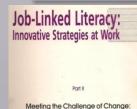
Reaction

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Basic Skills for a Competitive Workforce

Workplace Literacy for Helping Employees Meet New Demands of Workplace Change



FCE Workplace Literacy Programs in Six Industries (Developing Organizational Effectiveness Through Employee Development)







John Benseman

Transferring literacy skills in the workplace



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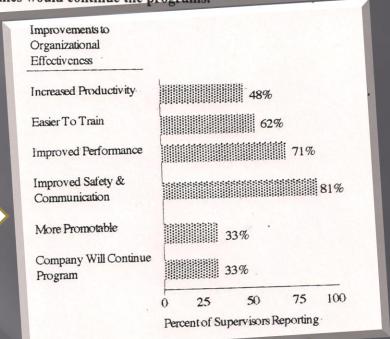
Level 3: Behaviour

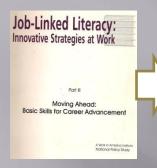
To what degree participants apply what they learned during training when they are back on the job.

Level 2: To what degree participants acquire the intended knowledge, skills, Learning and attitudes based on their participation in the learning event.

Level 1: To what degree participants react favourably to the learning Reaction event.

Outcomes: In all programs learners made significant gains in learning. Supervisors reported that the programs had a variety of positive effects on organizational effectiveness, including increased productivity, employees became easier to train, their job performance, safety, and communication improved, many became more promotable, and a third of them said their companies would continue the programs.





Workplace Literacy for Helping Employees Gain Upward Mobility in Their Employment



The United States Navy's
Academic Skills Program
for Upward Mobility and Career
Advancement

United States Navy Academic Skills Program

2006

Problems: Low retention rates after first enlistment producing high recruitment replacement costs of some \$35,500 per new recruit

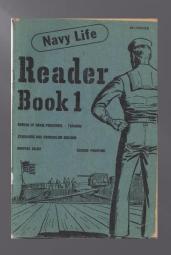


Excessive failure rates for promotion

Low rates of success in qualifying for cross-training into higher level jobs

Approach: Implement Voluntary Education (VOLED) Off-Duty Academic Skills training programs using free self-paced software instruction in basic reading, writing, math and science, work skills

Teaching Navy Workplace Literacy in World War II 1945







Workplace Literacy for Helping Employees Gain Upward Mobility in Their Employment



The United States Navy's
Academic Skills Program
for Upward Mobility and Career
Advancement

United States Navy Academic Skills Program

2006

Outcomes

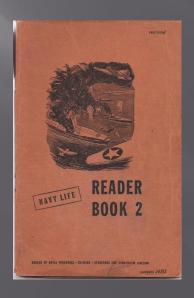
Reenlistment rates increased from 34 percent for those without Academic Skills (AS) training to 48 percent for those who completed AS training.

Each dollar in AS training returned \$14-22 dollars in recruitment/training savings

Promotability increased and cross-training qualifications increased from 6 percent for those not taking AS training to 18 percent for those completing AS training

Across the Department of Defense, enrollments in VOLED basic skills programs increased by over 50 percent from 26,136 in 1996 to 39,413 in 2000.

Teaching Navy Workplace Literacy in World War II 1945





one ship to other ships. They can send signals from ships planes, too. They can send signals from the land to ships to the sea. They can send signals from the land to planes in the sky. And they can read these signals as well as you can reathly book.





Promising Strategies for Involving Employers in Skills Development Efforts

Sectoral Training Programs

Sectoral training programs are another important strategy for involving employers in skill development. Interest in the sectoral approach is growing across the country, and several new initiatives have emerged in recent years. This strategy focuses on an industry or a small set of industries and develops industry-specific expertise that supports the design and operation of training programs.

Incumbent Worker Training

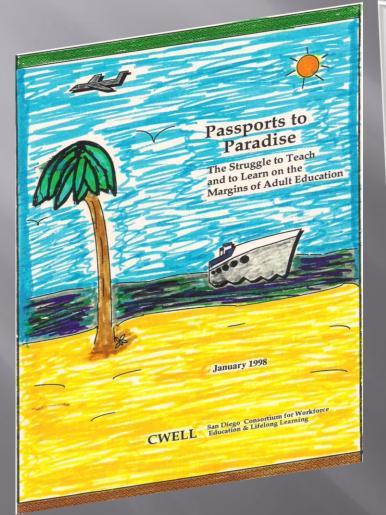
One important strategy for strengthening employer involvement in training for low-skill workers is to improve the design of incumbent worker training programs to reach this population more effectively. This approach generally provides public funds (usually from employer taxes) to individual employers or a consortium of employers to upgrade the skills of current employees or train new hires.

WorkFORCE Education and Training

WorkPLACE Education and Training

Functional Context Education and Workplace Literacy in Scientific Perspective

Sectoral Training in the San Diego Community College District Division of Continuing Education



<u>Yocational English as a Second Language (VESL):</u> Teaching English in Electronics Training. (1998)

1.ESL in the morning; Electronics Assembly (EA) Training in the 2. 10 weeks 9:30-11:30am VESL; 12-3:00pm EA

4. Students need to demonstrate a basic understanding and verbal proficiency in English for admission to training

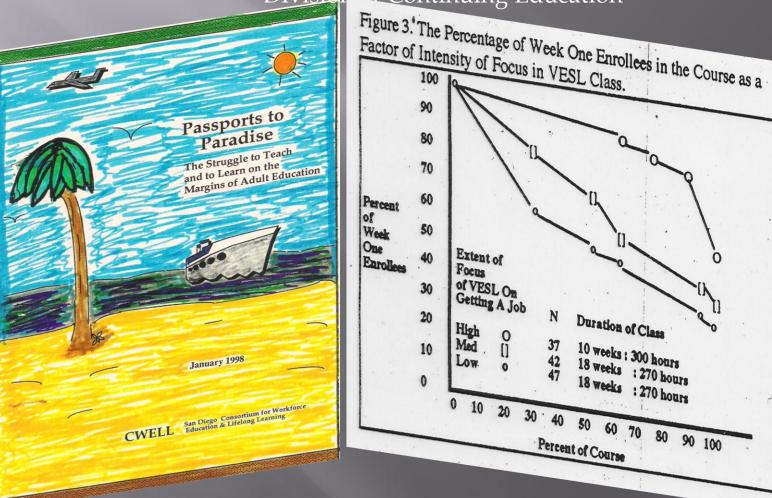
5. High motivation seems to be a consistent factor for students attending training. Motivation is not so much to learn English, but to get a job, change jobs, have some money, support their family, make a better life, get off welfare, etc. In essence, students are not attending class to learn traditional English, but to get the necessary skills to obtain an electronic assembly or

6. Actual assembly equipment and materials are used by the VESL instructor for demonstration of procedures and as

7. Scripted, Modular Sequence of Instruction. Because training is open entry/open exit, students begin and complete training at various times throughout the ten weeks. Use of scripted, sequenced, modules of instruction allows students to arrive before or during a module that will be repeated for them at the end of approximately eight weeks. Students know where they are at any given time during the training process. The final stage of each module is a written test, called a quiz to keep test anxiety low.

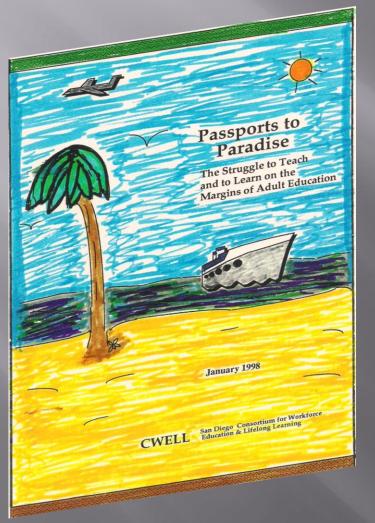
Functional Context Education and Workplace Literacy in Scientific Perspective

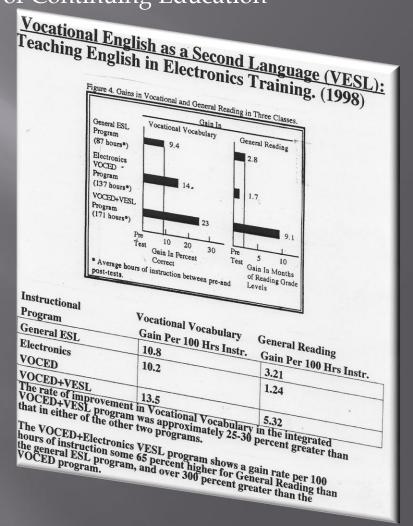
Sectoral Training in the San Diego Community College District
Division of Continuing Education



Functional Context Education and Workplace Literacy in Scientific Perspective

Sectoral Training in the San Diego Community College District Division of Continuing Education







Basic Skills at Work Programme United Kingdom 1991-1996

1991

Workplace Basic Skills Programs in the United Kingdom: Why so Few?

1991

1991

Alan Wells
Adult Literacy and Basic Skills Unit

Functional Context Education for Schoolplaces and Workplaces

Thomas G. Sticht

Applied Behavioral &
Cognitive Sciences, Inc.

Workplace Literacy 1996



CWELL Project Coordinator Tom Sticht with Mick Habgraft, Trade Union Representative at the Ford Motor Company, Dagenham, England

1999

Improving literacy and numeracy
A fresh start

The report of the working group chaired by Sir Claus Moser



Basic Skills at Work Programme United Kingdom 1991-1996



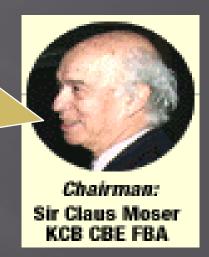


Improving literacy and numeracy A fresh start

The report of the working group chaired by Sir Claus Moser

26th February 1999

We met with Dr Thomas Sticht, a leading researcher on adult basic skills in the United States. ...and we were also helped by a discussion with Baroness Blackstone, the Minister for Further and Higher Education, at a Basic Skills Agency Board Meeting.





Functional Context Education and Workplace Literacy in Scientific Perspective

Improving literacy and numeracy A fresh start

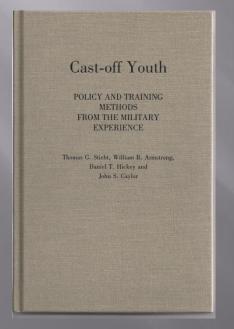
The report of the working group chaired by Sir Claus Moser



Cast-off Youth Book Cited in BSA paper for Lord Moser Group-1998-99

The Agency drew upon the outcomes of the Basic Skills at Work Programme to identify the key models that should be used in the delivery of workplace basic skills:

• integration of basic skills into job-related programmes, leading to acquisition both of basic skills and job-specific skills¹³:





Skills for Life Strategy Adopts Embedded Basic Skills and Vocational Skills Education



Functional Context Education and Workplace Literacy in Scientific Perspective

In Sectoral Studies, the UK's Skills for Life Strategy Embedded (Integrated) Basic Skills and Vocational Skills Education



SUMMARY REPORT

"You wouldn't expect a maths teacher to teach plastering..."

Embedding literacy, language and numeracy in post-16 vocational programmes – the impact on learning and achievement

Helen Casey, Olga Cara, Jan Eldred, Sue Grief, Rachel Hodge, Roz Ivanič, Tom Jupp, Desiree Lopez and Bethia McNeil



This research project explored the impact of embedded approaches to literacy, language and numeracy (LLN) on 79 vocational programmes. The courses were based in 15 further education colleges and one large training provider located in five regions of England.

The 1,916 learners who took part were preparing for national vocational qualifications at Levels 1 or 2 in one of five areas of learning:

- Health and Social Care
- Hair and Beauty Therapy
- Construction
- Business
- Engineering