



RESEARCH IN THE SOCIOLOGY OF WORK
VOLUME 12

**THE SOCIOLOGY OF
JOB TRAINING**

DAVID B. BILLS
Editor



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RESEARCH IN THE SOCIOLOGY OF WORK VOLUME 12

THE SOCIOLOGY OF JOB TRAINING

EDITED BY

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APPENDIX A

LOGIT MODELS AND THEIR INTERPRETATION

Where our dependent variables were two-category nominal variables, we performed a binary logit analysis, using the SYSTAT Statistical Package 7.0 (1997). The binary logit model estimates the effects of explanatory variables on an unordered binary outcome variable. One of the outcomes is designated the response category and the other outcome is the reference category. This probability model can be expressed as:

$$\text{Prob}(y = 1) = \frac{e^{\sum_{k=1}^K \beta_k x_k}}{1 + e^{\sum_{k=1}^K \beta_k x_k}}$$

where e denotes the base of the natural logarithm, 1 is the response category exclusive of the reference category, the k 's are the coefficients associated with each independent variable for the response category, and the x 's are the independent variables (Liao, 1994).

Where our dependent variables were multi-category nominal variables, we performed a multinomial logit analysis, using the SYSTAT Statistical Package 7.0 (1997). The multinomial logit model estimates the effects of explanatory variables on an outcome variable with more than two possible responses. The last possible response is designated the reference category, while all other possible responses become distinguishable response categories. This probability model can be expressed as:

$$\text{Prob}(y = j) = \frac{e^{\sum_{k=1}^K \beta_{jk} x_k}}{1 + \sum_{j=1}^{J-1} e^{\sum_{k=1}^K \beta_{jk} x_k}}$$

where e denotes the base of the natural logarithm, j is the response category exclusive of the last reference category, the β_k 's are the coefficients associated with each independent variable for each distinguishable response category, and the x 's are the independent variables (Liao, 1994).

An odds ratio value can be derived by calculating the antilog of the parameter estimates. An odds ratio represents the odds of an event occurring (e.g. participation in work-related adult education) versus the odds of it not occurring (e.g. non-participation) per unit change in an explanatory variable, holding other variables constant. For example, let's assume we performed a binary regression on participation in which one of the independent variables was coded one for forty to sixty-five year olds and zero otherwise. The specific parameter estimate for age was 0.192, its odds ratio value was 1.212, and the associated t -test indicated significance. This would mean that older individuals were estimated to be 1.212 times more likely to have participated than younger individuals.

In multinomial regressions, each response category is associated with a separate odds ratio for each explanatory variable. The interpretation of the odds ratio involves comparing the marginal effects of the explanatory variable on the specific response category in comparison to the reference category.

Finally, the formulas identified above can be used to calculate probabilities – namely the probability of an event occurring given a set of particular values for the explanatory variables. These particular values and corresponding coefficients are simply “plugged into” the formulas. To understand the unique effects of one particular explanatory variable, other explanatory variables are held in these calculations at either their mean levels or in the case of dummy variables, at a substantively meaningful value.

APPENDIX B

Variable Roster

Variable Name	Explanation
Vietnam	1 = 24–34 years old; 0 = other.
Boomers	1 = 35–49 years old; 0 = other.
WWII	1 = 50–65 years old; 0 = other.
Race	1 = non-white; 0 = other.
Income 1	1 = \$0–\$25,000; 0 = other (\$75,001 and above reference).
Income 2	1 = \$25,001–\$50,000; 0 = other (\$75,001 and above reference).
Income 3	1 = \$50,001–\$75,000; 0 = other (\$75,001 and above reference).
Hsless	1 = high school graduate or less; 0 = other (some college and above reference).
Highvoc	1 = technical training beyond high school; 0 = other. (some college and above reference).
Layoff	1 = probability of layoff; 0 = no probability of layoff.
Marital	1 = married; 0 = other.
Hhundr18	number of children under 18.
Continue	1 = includes the occupational categories of teachers, except postsecondary institution; registered nurses, pharmacists, dietitians, therapists, and physician's assistant; health technologists and technicians; 0 = other.
Clerical	1 = includes the occupational category of administrative support occupations, including clerical; 0 = other.
Computer	1 = industries in which the average expenditures on computer and related technologies for 1992 and 1996 was above the industry average; 0 = industries in which expenditures of this type for below the industry average.

The Sociology of Job Training

How workers learn how to do their jobs is central to an understanding of the changing nature of work in post-industrial society. The role of job or worker training has, however, been underdeveloped in sociological theories of work and the labor market. By most accounts, the ongoing penetration of information technology into the workplace, a transformed socioeconomic lifecourse, managerial preferences for high performance organizations, and the globalization of labor markets have collectively rendered traditional models of skill acquisition badly outmoded. This volume offers sophisticated sociological analyses of job training that go well beyond standard accounts of general versus specific skills and overly simple assumptions about employer and worker behavior. The chapters examine such topics as the incentives available to employers to provide training, socially structured inequalities in access to training, and cross-societal differences in training institutions. They break new ground in investigating the content of job training as well as its incidence and duration. The contributors to the volume bring to bear both qualitative case study and quantitative research to explore the emerging role of training in post-industrial labor markets.

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