NCDS

Data Note 5

**Subjects of NCDS5
Qualifications and Courses**

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SUBJECTS OF NCDS5 QUALIFICATIONS AND COURSES

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INTRODUCTION

This *NCDS Data Note* reports on work done to improve the quality of the data available for the fifth follow-up of the *National Child Development Study (NCDS5)*. It reports on the considerable work done at the University of Manchester to code details of the subjects of qualifications and courses reported during the NCDS5 interview, and was prepared by Peter Shepherd. It is hoped that the information provided below may be of value to others analysing NCDS data.

A brief introduction to NCDS will be followed by an outline of the coding undertaken and the nature of the enhanced data which is available.

NATIONAL CHILD DEVELOPMENT STUDY

The *National Child Development Study (NCDS)* is a continuing, multi-disciplinary longitudinal study which takes as its subjects all those living in Great Britain who were born between 3 and 9 March, 1958.

Following the initial birth survey in 1958 - the *Perinatal Mortality Survey (PMS)* - there have been, to date, five attempts to trace all members of the birth cohort in order to monitor their physical, educational and social development. These were carried out by the National Children's Bureau in 1965 (*NCDS1*), 1969 (*NCDS2*), 1974 (*NCDS3*), and 1981 (*NCDS4*); and by the Social Statistics Research Unit, City University in 1991 (*NCDS5*). In addition, in 1978, details of public examination entry and performance where obtained from schools and colleges.

For the *PMS* information was obtained from the *mother* and from *medical records* by the midwife. For *NCDS1-3*, information was obtained from: *parents* (by health visitors); *head teachers* and *class teachers* (who completed questionnaires); *medical examination* (carried out by the schools health service); and the *subjects* themselves (who completed tests of ability and, latterly, questionnaires).

NCDS4 differs in that information was obtained from the *subject* by survey research interviewer, and from the *1971 and 1981 Censuses* - from which variables describing area of residence were taken. Similarly, *NCDS5* also relied on survey research interviewers to collect information from *subjects*. Self-completion questionnaires were also used to gather data from NCDS *subjects* and from *husbands, wives, and cohabitees*. In addition, for a random sample of one in three subjects, information was collected for all *natural or adopted children* who were living with them. Data were gathered from the *children* themselves, and from their *mother, or mother-figure* (who might be the cohort member, or their spouse or partner), using a series of age-specific assessments of cognitive and behavioural development. These were supplemented by a *mother* interview, and by *interviewer observations* of mother-child interaction.

During *EXAMS* survey, information was obtained only from *schools and colleges* by postal survey.

In addition information has also been gathered during a number of *NCDS Special Sub-studies* for samples of cohort members selected for their particular characteristics. They include studies of children in care, adoptive children, gifted children, the children of one-parent families, handicapped school leavers, and those suffering from epilepsy, respiratory problems, and Crohn's disease.

Data available for research

The data from the NCDS follow-ups are held by the ESRC Data Archive at the University of Essex and on-line at Manchester Computing. Access to the data is open to anyone interested, although intending users are asked to commit themselves to ensuring that confidentiality is observed, and to inform the *NCDS User Support Group* at the Centre for Longitudinal Studies about their proposed use of the data and any resulting publications, etc.

The Data Archive also hold data from a number of special sub-studies where additional data has been gathered for samples of cohort members selected for their special characteristics or circumstances.

User Group

This is open to all users of NCDS data. It provides opportunities for users to get together to explore developments, problems, and other issues of mutual interest. Ad hoc "Updates" on NCDS data and developments are circulated to members.

Membership is free on application to the NCDS User Support Group.

User Support Group

This provides advice and guidance on the use of NCDS data; produces documentation; collates and disseminates information on uses of the data, publications, and other developments; produces and distributes a newsletter and working papers; provides access to non-computerised NCDS data; collects additional information; and services the User Group.

The User Support Group can be contacted by post, 'phone, fax, or email as shown below:

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SUBJECTS OF NCDS5 QUALIFICATIONS AND COURSES

Background

During the NCDS5 survey cohort members were asked at interview about the qualifications they held, and the courses they had followed to obtain qualifications, training courses and leisure courses. This included details of the subject(s) of courses followed. Following the completion of the NCDS5 survey the text of the subject descriptions was keyed to disk and subsequently made available through the ESRC Data Archive. More recently this data has been reviewed and coded to facilitate analysis. This work was funded by the Department of Employment and undertaken by the University of Manchester.

A list of questions for which subject information was keyed to disk and subsequently coded is given in Table 1 below.

Table 1: NCDS5 questions on the subjects of qualifications and courses

Question	Topic
B05a)	Highest qualification course since sixteen
B05a)	Second highest qualification course since sixteen
B13a)	Most recent training course since sixteen
B13a)	Second most recent training course since sixteen
B13a)	Third most recent training course since sixteen
B21c)	Leisure courses since sixteen
B22a)	Other City & Guild qualification held
B22a)	Other qualications held 1-3

Coding frame

The subject oding frame employed was derived from the GHS-based frame used for coding subject information for the NCDS4 survey, modified to include subjects which did not appear to fit. A copy of this frame is given in Appendix 1.

Many courses were recorded as just 'engineering'; these were coded as 'General and other engineering' (147).

Similarly, if a subject was given as just 'management' it was coded as 'Other management' (486).

'Leisure' (713) includes sports which people did at evening classes.

Word processing courses were coded as 'Clerical' (491).

Data available

The subject codings have been set up as an SPSS 'portable' file. A summary of the contents of the dataset is given in Table 2 below.

The dataset is available to researchers on application to the NCDS User Support Group.

Table 2: NCDS5 Subject variables

Variable name*	Label
SERIAL	Serial number
QB05A1	Subject - Highest qual course since 3/81
QB05A2	Subject - 2nd highest qual course since 3/81
QB13A1	Subject - Most recent training course since 3/81
QB13A2	Subject - 2nd most recent training course since 3/81
QB13A3	Subject - 3rd most recent training course since 3/81
QB21C01	Subject - Leisure course since 3/81 #1
QB21C02	Subject - Leisure course since 3/81 #2
QB21C03	Subject - Leisure course since 3/81 #3
QB21C04	Subject - Leisure course since 3/81 #4
QB21C05	Subject - Leisure course since 3/81 #5
QB21C06	Subject - Leisure course since 3/81 #6
QB21C07	Subject - Leisure course since 3/81 #7
QB21C08	Subject - Leisure course since 3/81 #8
QB21C09	Subject - Leisure course since 3/81 #9
QB21C10	Subject - Leisure course since 3/81 #10
QB21C11	Subject - Leisure course since 3/81 #11
QB21C12	Subject - Leisure course since 3/81 #12
QB21C13	Subject - Leisure course since 3/81 #13
QB21C14	Subject - Leisure course since 3/81 #14
QB21C15	Subject - Leisure course since 3/81 #15
QB21C16	Subject - Leisure course since 3/81 #16
QB22A17	Subject - Other City & Guild qual held
QB22A34	Subject - Other qual held #1
QB22A35	Subject - Other qual held #2
QB22A36	Subject - Other qual held #3

Notes: * Variable names have the general form:
  Q(Section)(Question number)(Question part)(nth subject mentioned)

eg: B21c "What subjects have you studied on this (leisure) course?" has the variable names QB21C01 - QB21C16. These variables provide coding for up to 16 named subjects. The first named subject has a variable name derived as follows:
  Q(B)(21)(C)(01) = QB21C01

Further details of the dataset are given in Appendix 2.

Appendix 1: Coding frame for NCDS5 Subjects

The subject coding frame employed for NCDS5 was derived from the GHS-based frame used for coding subject information for the NCDS4 survey, modified to include subjects identified by NCDS5 respondents which did not appear to fit the earlier frame
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EDUCATION

1   Education/Teacher training

2   Teaching methods
3   Programmed learning
4   Audio-visual aids
5   Other education/teaching
6   Education combinations
7   Education combined with other groups

MEDICINE, DENTISTRY AND ANCILLIARY HEALTH SUBJECTS

10   Pharmacy

11   Pharacology

12   Medicine

13   Dentistry

      Ancilliary Health Subjects

14   Air Pollution
15   Cardiography
16   Chiropody
17   Cleaning Science
18   Dental nurse and Assistants
19   Dental technicians
20   Dietetics
21   Dispensing assistants
22   Dispensing opticians
23   Dispensing technicians
24   Food inspection, analysis and hygiene
25   Health visitors
26   Manicure and pedicure
27   Meat inspection
28   Medical certificate
29   Medic laboratory technicians
30   Nursing(medical)
31   Nursery nursing

32   Nutrition
33   Opthalmic opticians
34   Physiological Measurement technician
35   Physiotherapy
36   Pre-nursing
37   Public-Health inspection
38   Sanitary inspection
39   Radiography
40   Smoke control
41   Speech therapy
42   Surgical laboratory technicians
43   Other health subjects
44   Health and safety
45   Health combinations
46   Health combined with other groups
47   Occupational therapy

ENGINEERING

50   <u>Aeronautical engineering</u>

51   Aeronautics
52   Aerodynamics
53   Aerostructure
54   Aero engineering and space technology
55   Aircraft electrical power systems
56   Aircraft electronic devices
57   Astronautics
58   Flight Control
59   Guided Missiles

60   <u>Agricultural engineering</u>

61   Farm machinery maintenance
62   Horticultur machinery maintenance

64   <u>Automobile engineering</u>

65   Motor bodywork
66   Motor vehicle electricians
67   Motor vehicle engineering
68   Motor vehicle mechanics
69   Motor vehicle technicians
70   Motor vehicle painting
71   Motor vehicle repair and maintenance
72   Panel beating
73   Vehicle body building

74   <u>Chemical engineering and technology</u>

75   Chemical plant operation
76   Chemical technicians
77   Chemical technology
78   Gas engineering
79   Process plant operation

80   <u>Civil engineering</u>

81   Civil engineering (gas)
82   Municipal engineering
83   Traffic engineering
84   Land economics

85   <u>Electrical engineering</u>

86   Cable jointing
87   Electrical fitting
88   Electrical installation
89   Electronics
90   Electronic engineering
91   Electronic servicing
92   Illuminating engineering
93   Radar
94   Radio and television
95   Radio, television and tape recorders (amateur)
96   Radio, television and tape recorders servicing
97   Telecommunications

98   <u>Marine engineering</u>

99   <u>Mechanical engineering</u>

100   Fabrication of steelwork
101   Hydraulics
102   Mechanical engineering craft practice
103   Mechanical engineering technicians
104   Mechanical engineering inspection
105   Rail carriage building
106   Refrigeration engineering
107   Workshop technology and practice

108   <u>Naval architecture and shipbuilding</u>

109   Ship building

110	Ship joinery
111	Ship plumbing
112	Yacht and boat building

| 113 | <u>Production engineering</u> |

| 147 | <u>General and other engineering</u> |

114	Precision engineering
115	Ergonomics
116	Materials handling
117	Audio-vis technicians
118	General engineering
119	Combined engineering
120	Control engineering
121	Blacksmithing
122	Boiler house practice
123	Boilermaking
124	Corrosion engineering
125	Engineering drawing
126	Engineering planning, estimating and costing
127	Engineering science
128	Fire engineering
129	Heating and ventilating engineering
130	Industrial engineering
131	Industrial radiography
132	Mill engineering and services
133	Instrument engineering and maintenance
134	Metal finishing and electro-chemistry
135	Metal plate work
136	Metrology
137	Miscellaneous engineering
138	Nuclear engineering
139	Pipework engineering
140	Press tool making
141	Pressure vessel design
142	Scientific instrument manufacture (including optical instruments)
143	Sheet metal work
144	Textile engineering
145	Watch and clock manufacture
146	Welding
147	General and other engineering
148	Engineering combinations
149	Engineering & technology combinations
150	Engineering in combination with other groups (except technology)

TECHNOLOGY

160   Building

161   Bricklaying
162   Building economics
163   Building foremnship
164   Building inspection
165   Building technology
166   Builders quantities
167   Carpentry and joinery
168   Clerks of works
169   Concrete practice
170   Concrete technology
171   Construction, plant maintenance and repair of
172   Furnace brickwrk
173   Gas fitters work
174   Glazing and allied trades
175   Heating and ventilation (installation and fitting)
176   Highways and works superintendents
177   Industrial safety officers
178   Masonry
179   Mastic asphalt work
180   Painting and decorating
181   Plasterers work
182   Plumbing and sanitary engineering
183   Roadwork (road masons and paviors)
184   Roof slating and tiling
185   Shopfitting
186   Structural engineering
187   Wall and floor tiling (inclusing terrazo and mosaic work)

188   Clothing and footwear

189   Boot and shoe manufacture and repair
190   Dress manufacture
191   Embroidery and lace manufacture
192   Hoisery and knitted goods manufacture
193   Millinery (other than domestic)
194   Tailoring (other than domestic)

196	Food technology and manufacture
197	Bakery and flour confectionery
198	Brewing
199	Chocolate and sugar confectionery
200	Flour milling
201	Milk pasteurisation, processing and distribution

202	Fuel and petroleum technology
203	Coal processing
204	Gas manufacture and utilisation
205	Petroluem and petroleum products

206	Metal technology
207	Metallurgy
208	Foundry technology
209	Foundry practice
210	Iron and steel manufacture
211	Metallurgical technicians
212	Non-ferrous metal manufacture
213	Patternmaking

214	Mining and quarrying
215	Colliery electtricians
216	Colliery mechanics
217	Mineral engineering
218	Mining engineering
219	Mining deputies and managers
220	Mining geology

221	Offshore engineering and technology

222	Printing and book production
223	Printing
224	Book production
225	Book binding
226	Electro and stereotyping
227	Line composition
228	Lithographic printing
229	Monotype casters work
230	Monotype composition

231   Photo engraving
232   Photogravure
233   Photo-lithography
234   Print administration
235   Printing ink technicians
236   Printing technicians
237   Printing warehouse practice
238   Publishers edition binding
239   Technical authorship and iluustration
240   Typographical design
241   Typography

242   <u>Surveying/Valuation</u>

243   Mine surveying
244   Quantity surveying
245   Cartography

246   <u>Textile technology and manufacture</u>

247   Carpet and upholstery fabric manufacture
248   Cotton manufacture
249   Silk manufacture
250   Synthetic texttile manufacture
251   Textile merchanting (where course has technological content)
252   Textile printing
253   Textiles, general
254   Woollen and worsted manufacture and weaving
255   Other textile manufacture

256   <u>General and other technology and manufacture</u> (see also 282 and 283)

257   Acoustics
258   Brickmaking
259   Ceramics technology and manufacture
260   Cybernetics (industrial)
261   Furniture and upholstery manufacture
262   Leather technology
263   Leather and leather goods manufacture, dyeing and finishing)
264   Kiln burning
265   Gemmology
266   Goldsmiths and silversmiths work (excluding design)
267   Instrument technology
268   Jewellery manufacture
269   Musical instrument manufacture
270   Paint technology
271   Pottery manufacture

272   Paper science
273   Paper technology
274   Plastics technology
275   Polishing and Sanding
276   Rubber workshop practice
277   Rubber technology
278   Synthetic fibre manufacture
279   Timber technology
280   Tobacco processing
281   Woodcutting machinists work
282   Other manufacturing
283   Other technology

284   Technology combinations
285   Combinations of engineering and/or technology with other groups

AGRICULTURE, FORESTRY AND VETERINARY SCIENCE

300   <u>Agricultural chemistry</u>

301   <u>Agriculture</u> (see also 314-379)

302   Agricultural economics
303   Animal husbandry
304   Beekeeping
305   Dairying
306   Farm records and accounts
307   Farm organisation and management
308   Gardening
309   Greenkeeping
310   Horticulture
311   Poultry
312   Rural saddlery
313   Fish farming

314   <u>Agricultural biology</u>

315   Agricultural biochemistry
316   Agricultural botany
317   Agricultural science
318   Agricultural zoology
319   Animal genetics
320   Plant toxonomy
321   Soil chemistry
322   Soil science

323   <u>Forestry</u>

324   Arboriculture
325   Sylviculture
326   Forestry management
327   Timber felling and sawmilling
328   Timber merchanting
329   Tree nursery work

330   <u>Veterinary sciences</u>

331   Animal nursing
332   Animal technicians
333   Agricultural combinations
334   Agricultural and other group combinations

350   <u>Biological sciences</u>

351   Applied biology
352   Applied micro biology
353   Biology
354   Bacteriology
355   Biological chemistry
356   Botany
357   Genetics
358   Microbiology
359   Microscopy
360   Physiology and anatomy
361   Pathology
362   Zoology

363   <u>Biochemistry</u>

364   Applied biochemistry
365   Medical biochemistry
366   Physiological chemistry

367   <u>Chemistry</u>

368   Analytical chemistry
369   Applied chemistry
370   Cosmetic chemistry
371   Spectroscopy
372   Chemistry as applied to textile industry
373   Dyeing of textiles
374   Polymer chemistry
375   Colour chemistry
376   Technical chemistry

377   Geology

378   Geophysics
379   Mineralogy

380   Mathematics

381   Applied mathematics
382   Arithmetic
383   Computer studies (mathematical bias)
384   Decimalisation
385   Numerical analysis
386   Elasticity
387   Hydrodynamics
388   Probability theory
389   Statistics
390   Theoretical astronomy
391   Technological mathematics
392   Systems international units
393   Computer science

394   Physics

395   Applied physics
396   Applied astronomy
397   Mathematical physics
398   Nuclear physics
399   Astrophysics
400   Radio astronomy
401   Radiation protection

402   Environmental sciences

403   Oceanography
404   Meterology

405   General science

406   Science laboratory technician
407   Mathematics/physics
408   Mathematics/other sciences
409   Combinations of physical sciences other than maths/physics
410   Cmbinations of biological sciences
411   Combinations of sciences with other subjects

SOCIAL, ADMINISTRATIVE AND BUSINESS SUBJECTS

420	Economics

421	Economic sciences and statistics
422	Economic history
423	Economic organisation
424	Industrial economics

425	Geography

426	Law

427	Legal executives

428	Social Sciences

429	Sociology
430	Humanities and social studies
431	Industrial relations
432	Social administration
433	Social Work
434	Careers guidance
435	Youth and community service/Youth work
436	Youth employment and vocational guidance
437	Psychology
438	Social anthropology
439	Other economics, law or social sciences
440	Combinations of economics, law and social sciences

441	Accountancy, banking and insurance

442	Accountancy
443	Book-keeping
444	Law accounting
445	Cost and works accouting
446	Actuarial studies
447	Banking and currency
448	Insurance
449	Municipal treasurers and accountants
450	Stock exchange practice
451	Taxation

452	Government and public administration

453	Civil defence
454	Central government
455	Fire service

456	Hospital/health administration
457	International relations
458	Local government
459	Police
460	Political science

461	<u>Management and management science</u>

462	Administration, general
463	Busness administration
464	Company secretary practice
465	Computer systems analysis
466	Cybernetics (management)
467	Industrial administration
468	Industrial foremanship
469	Industrial organisation
470	Industrial training
471	Information science
472	Organisation and methods
473	Management, construction
474	Management, estate
475	Management, housing
476	Management, office
477	Management, personnel
478	Management, production
479	Management, works
480	Management, sales
481	Marketing and sales management
482	Operational research
483	Quality control
484	Time and motion study
485	Work Study
486	Other administrative and management studies
488	Supervisory studies

489	<u>Secretarial/clerical studies</u>

490	Agricultural secretaires
491	Clerical
492	Personal Assistant
493	Shorthand/typing
494	Typing
495	Medical secretaries

514	<u>Other social administratiuve and business subjects</u>

496	Advertising

497	Business studies
498	Commerce (including combined commerece and secretarial)
499	Business machine operation
500	Commercial travelling
517	Computing
501	Computer languages
502	Computer operation
503	Computer programing (general and commercial bias)
504	Data processing
505	Estate agency
506	Export practice
507	Office studies
508	Purchasing
509	Salesmanship
510	Sales representatives
511	Shipbroking
512	Switchboard operation
513	Travel/travel agency
514	Other social administratiuve and business subjects
515	Combinations of social, adminsitrative, business
516	Combinations with other groups

MISCELLANEOUS PROFESSIONAL AND VOCATIONAL SUBJECTS

519	<u>Architecture</u>
520	Landscape architecture
521	Land use
522	Town and country planning
523	Conservation (of buildings)
524	Rural and regional resources planning
525	<u>Catering and institutional management</u>
526	Catering, basic trades
527	Cookery for hotel catering trades
528	Hotel and catering
529	Hotel book-keeping and reception
530	Institutional management and housekeeping
531	Licenced house staff
532	Preliminary trade cookery
533	Waiters and hotel assistants
534	Institutial catering and housekeeping
535	<u>Home economics</u>
536	Domestic science/dress and design

537   Domestic science/food and nutrition
538   Domestic studies
539   Cookery
540   Dressmaking (domestic)
541   Home management
542   Houseworking
543   Millinery (domestic)
544   Needlework and embroidery (domestic)
545   Tailoring (domestic)
546   Upholstery and soft furnishings
547   Weaving

548   <u>Nautical studies</u>

549   Fishing
550   Nautical catering
551   Nautical science
552   Radio-telegraphy (nautical)
553   Seamanship and navigation

554   <u>Transport</u>

555   Air transport
556   Rail transport
557   Road transport
558   Shipping

559   <u>Wholesale and retail trades</u>

560   Retailing
561   Flower display and arrangement/Florist
562   General and undefined distribution
563   Grocery
564   Paper merchanting
565   Retail distribution
566   Retail management and storekeeping
567   Stationery
568   Textile distribution

569   <u>Other professional and vocational subjects</u>

570   Hairdressing/cosmetics/beauty
571   Laundry and dry cleaning work
572   Journalism
573   Librarianship
574   Trichology
575   Photography

576   General and liberal studies

578   Civics
579   Current affairs
580   Modern studies
581   Miscellaneous professional and vocational n.e.c.
582   Combination of professional and vocational
583   Combination with other groups

LANGUAGES

600   English language and literature
601   English for foreign students
602   Gaelic and other Celtic languages
603   French
604   German
605   French/German
606   Spanish
607   Danish
608   Dutch
609   Italian
610   Norwegian
611   Portugese
612   Swedish
613   Other single West European languages
614   Russian

615   Other Central and Eastern European languages

616   Classical studies
617   Oriental, Asian and African languages
618   Other languages
619   Modern languages
620   Combined language courses (see also 625)
621   Languages with other groups

ARTS OTHER THAN LANGUAGES

650   Archaeology
651   History
652   Philosophy
653   Moral sciences
654   Logic
655   Theology
656   Arts general (where not elsewhere specified)
657   Combinations of arts with other groups

MUSIC, DRAMA AND VISUAL ARTS

669   Art and design

670   Art
671   Design
672   Art metalwork and jewellery design
673   Antiques
674   Ceramics (design)
675   Fashion design
676   Furniture design
677   Graphic design (including commercial art and illustration)
678   Handicrafts
679   History of art
680   Industrial design
681   Industrial glass design
682   Interior design
683   Lettering
684   Painting
685   Sculpture
686   Stained glass
687   Textile design
688   Window dressing and display
689   Woodcarving

699   Drama and entertainment and music

700   Drama
701   Speech
702   Cinema and film studies
703   Music
704   Music, drama, visual arts n.e.c.
705   Music, drama , visual arts combinations

OTHER CODES

706 Subject given, but can't be classified anywhere else
707 No subject given, or illegible
708 More than one CSE and/or 'O' 1evel being studied

CODES ADDED FOR NCDS5

709 Subject listed as "unacceptable" in GHS

710 Alternative medicine, including:
        hypnotherapy
        art therapy
        aromatherapy
        massage
        reflexology
        homeopathy
        drama therapy

711 Driving qualification, including:
        HGV
        Fork-lift Truck licence
        PSV
        Driving instructor
        motorcycle licence
        side load driver
        mercury training

713 Leisure, including:
        RS 1 rally sports
        Physical training
        Basketball referee
        Certificate of movement and dance
        British canoe union instructors award
        County swimming teaching certificate
        day skipper certificate
        British amateur gym association
        Mountain Walker leader
        County rock climbing foundation
        Fellowship in dancing
        YMCA aerobics teacher training course
        Cricket Coaching
        Qualified weight training instructors course
        British Sport therapist
        Senior instructor on Kayak
        Rugby league coach
        swimming coach

yacht master
British Wheel of Yoga
Other sports

715   First Aid, including:
         Life saving
         Off-shore survival
         St Johns Certificate
         Red Cross

716   Social and Caring qualifications, including: Sign language

717   Security, including:
         alarm fitting
         security guards
         use of pistols and fire arms

718   In-house training, including:
         assertiveness training
         public speaking
         report writing skills,
         evaluation and assessing staff.
         problem solving
         negotiation skills
         presentation skills

900   Not applicable

Note:

- Many couses were recorded as just 'engineering'; these were coded as 'General and other engineering' (147).

- Similarly, if a subject was given as just 'management' it was coded as 'Other management' (486).

- 'Leisure' (713) includes sports which people did at evening classes.

- Word processing courses were coded as 'Clerical' (491).

Appendix 2: Summary of the contents of the NCDS5 "Subjects" dataset

```
Portable file:  subject.t2.exp
Variables:  26
Number of cases:  8,367
Input file size:  6,821 records (545,680 bytes)

Defined Variables

SERIAL    QB13A2    QB21C03   QB21C06   QB21C09   QB21C12   QB21C15   QB22A34
QB05A1    QB13A3    QB21C04   QB21C07   QB21C10   QB21C13   QB21C16   QB22A35
QB05A2    QB21C01   QB21C05   QB21C08   QB21C11   QB21C14   QB22A17   QB22A36
QB13A1    QB21C02


Name      Position  Label

SERIAL          1   Serial number
QB05A1          2   Subject - Highest qual course since 3/81
QB05A2          3   Subject - 2nd highest qual course since 3/81
QB13A1          4   Subject - Most recent training course since 3/81
QB13A2          5   Subject - 2nd most recent training course since 3/81
QB13A3          6   Subject - 3rd most recent training course since 3/81
QB21C01         7   Subject - Leisure course since 3/81 #1
QB21C02         8   Subject - Leisure course since 3/81 #2
QB21C03         9   Subject - Leisure course since 3/81 #3
QB21C04        10   Subject - Leisure course since 3/81 #4
QB21C05        11   Subject - Leisure course since 3/81 #5
QB21C06        12   Subject - Leisure course since 3/81 #6
QB21C07        13   Subject - Leisure course since 3/81 #7
QB21C08        14   Subject - Leisure course since 3/81 #8
QB21C09        15   Subject - Leisure course since 3/81 #9
QB21C10        16   Subject - Leisure course since 3/81 #10
QB21C11        17   Subject - Leisure course since 3/81 #11
QB21C12        18   Subject - Leisure course since 3/81 #12
QB21C13        19   Subject - Leisure course since 3/81 #13
QB21C14        20   Subject - Leisure course since 3/81 #14
QB21C15        21   Subject - Leisure course since 3/81 #15
QB21C16        22   Subject - Leisure course since 3/81 #16
QB22A17        23   Subject - Other City & Guild qual held
QB22A34        24   Subject - Other qual held #1
QB22A35        25   Subject - Other qual held #2
QB22A36        26   Subject - Other qual held #3

Data dictionary

Name

SERIAL    Serial number
          Print Format: A7
          Write Format: A7

QB05A1    Subject - Highest qual course since 3/81                        - QB22A36
 Subject - Other qual held #3

          Print Format: F3
          Write Format: F3

          Value    Label

              1    Education
              2    Teaching methods
              3    Prog learning
              4    Audio-vis aids
              5    Other education
              6    Ed combinations
              7    Ed & other group
             10    Pharmacy
             11    Pharacology
```

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12    Medicine
13    Dentistry
14    Air Pollution
15    Cardiography
16    Chiropody
17    Cleaning Science
18    Dental nurse
19    Dental tech
20    dietetics
21    dispensg asst
22    dispense optic
23    dispense tech
24    Food inspection
25    Health visitors
26    Manicure/Pedicur
27    Meat inspection
28    Medical cert
29    Medic lab tech
30    Nursing(med)
31    Nursery nursing
32    Nutrition
33    Opthalmic optic
34    Physiological
35    Physiotherapy
36    Pre-nursing
37    Public-Health
38    Sanitary insp
39    Radiography
40    Smoke control
41    Speech therapy
42    Surgical lab
43    Other health
44    Health & Safety
45    Health combi
46    Health/oth group
47    Occupat therapy
50    Aeronautical eng
51    Aeronautics
52    Aerodynamics
53    Aerostructure
54    Aero eng/space
55    Aircraft elec
56    Air elec devices
57    Astronautics
58    Flight Control
59    Guided Missiles
60    Agriculture eng
61    Farm machinery
62    Horticultur mach
64    Automobile eng
65    Motor bodywork
66    MV electrician
67    MV engineering
68    MV mechanics
69    MV technicians
70    MV painting
71    MV repair
72    Panel beating
73    V body build
74    chem eng & tech
75    chem plant ops
76    Chem technicians
77    Chem technology
78    Gas eng
79    Process plant
80    Civil eng
81    Civil eng(gas)
82    Municipal eng
83    Traffic eng
```

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 84    Land economics
 85    Electrical eng
 86    Cable jointing
 87    Elec fitting
 88    Elec install
 89    Electronics
 90    Electronic eng
 91    Elec servicing
 92    Illum eng
 93    Radar
 94    Radio & TV
 95    Rad,TV (amateur)
 96    Rad,TV servicing
 97    Telecommunicat
 98    Marine eng
 99    Mech eng
100    Steelwork
101    Hydraulics
102    Mech eng craft
103    Mech eng tech
104    Mech eng insp
105    Rail carr build
106    Refrigeration en
107    Workshop tech
108    Naval arch
109    Ship building
110    Ship joinery
111    Ship plumbing
112    yacht/boat build
113    Prod eng
114    Prec eng
115    Ergonomics
116    Materials hand
117    Audio vis tec
118    General eng
119    Combined eng
120    Control eng
121    Blacksmith
122    Boiler house
123    Boilermaking
124    Corrosion eng
125    Eng drawing
126    Eng planning
127    Eng science
128    Fire eng
129    Heating eng
130    Industrial eng
131    Indust radio
132    Mill eng/service
133    Instrument eng
134    Metal finishing
135    Metal plate work
136    Metrology
137    Misc eng
138    Nuclear eng
139    Pipework eng
140    Pres tool making
141    Pressure vesse
142    Scientific instr
143    Sheet metal work
144    Textile eng
145    Watch/Clock manu
146    Welding
147    Gen other eng
148    eng combi
149    Eng & tech combi
150    eng/other group
160    building
161    bricklaying
```

```
162    build economics
163    build foremnship
164    build inspection
165    build technology
166    build quantity
167    carp and joinery
168    clerks of works
169    concrete pract
170    concrete tech
171    construction
172    furnace brickwrk
173    gas fitters work
174    glazing
175    heating/vents
176    highways/works
177    indust safety
178    masonry
179    mastic asphalt
180    paint/decorating
181    plasterers work
182    plumb/sanitary
183    roadwork
184    road tiling
185    shopfitting
186    structural eng
187    wall/floor tilin
188    Cloth/footwear
189    Shoe manu/repair
190    Dress manufactue
191    embroid/lace man
192    Hoisery/knitted
193    Millinery
194    Tailoring
196    Food tech & manu
197    Bakery & floor
198    Brewing
199    Chocolate/sugar
200    Flour milling
201    Milk past/dist
202    Fuel/petroluem
203    Coal processing
204    Gas manufacture
205    petroluem prods
206    metal technology
207    metallurgy
208    Foundry tech
209    Foundry practice
210    Iron/Steel manu
211    metallurgical
212    nonferrous metal
213    patternmaking
214    Mining/quarrying
215    Colliery elect
216    Colliery mech
217    Mineral eng
218    Mining eng
219    Mining managers
220    Mining geology
221    Offshore eng
222    Print/Book prod
223    Printing
224    Book production
225    Book binding
226    stereotyping
227    Line composition
228    lithographic
229    Monotype caster
230    Monotype comps
231    Photo engraving
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232    Photogravure
233    Photo-lithograph
234    Print admin
235    Print ink tech
236    Printing tech
237    printing whouse
238    Pub edit bind
239    Tech authorship
240    Typograph design
241    Typography
242    Survey/valuation
243    Mine surveying
244    Quant surveying
245    Cartography
246    Textile tech/man
247    Carpet/Upholster
248    Cotton manufact
249    silk manufact
250    Synthetic texts
251    Textile merchant
252    Textile printing
253    Textiles,general
254    Woolen
255    other textile
256    General tech
257    Acoustics
258    Brickmaking
259    Ceramics tech
260    Cybernetics,Ind
261    Furniture manu
262    Leather tech
263    Leather goods
264    Kiln burning
265    Gemmology
266    Gold/silve smith
267    Instrument tech
268    Jewellery manu
269    Music inst man
270    Paint technology
271    Pottery manufact
272    Paper science
273    Paper technology
274    Plastics tech
275    Polish/sanding
276    Rubber workshop
277    Rubber tech
278    synthetic fibre
279    timber tech
280    Tobacco process
281    Woodcutting
282    Other manufact
283    Other technology
284    Technology combi
285    Combi eng/tech
300    Agri chemistry
301    Agriculture
302    Agri economics
303    Animal husbandry
304    Beekeeping
305    Dairying
306    Farm records
307    Farm management
308    gardening
309    Greenkeeping
310    Horticulture
311    Poultry
312    Rural saddlery
313    Fish Farming
314    Agri biology
```

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315     Agri biochemist
316     Agri botany
317     Agri science
318     Agri zoology
319     Animal genetics
320     Plant toxonomy
321     Soil chemistry
322     Soil science
323     Forestry
324     Arboriculture
325     Sylviculture
326     Forestry mment
327     Timber felling
328     Timber merchant
329     Tree nursery wrk
330     Vet sciences
331     Animal nursing
332     Animal tecnici
333     Agri combi
334     Agri & other
350     Bio sciences
351     Applied biology
352     App micro bio
353     Biology
354     Bacteriology
355     Biological chem
356     botany
357     Genetics
358     Microbiology
359     Microscopy
360     Physiology
361     Pathology
362     Zoology
363     Biochemistry
364     Applied bc
365     Medical bc
366     Physiological
367     Chemistry
368     Analytical
369     Applied chem
370     Cosmetic chem
371     Spectroscopy
372     Textile chem
373     Textile dyeing
374     Polymer chem
375     Colour chem
376     Tech chem
377     Geology
378     Geophysics
379     Mineralogy
380     Mathematics
381     App Mathematics
382     Arithmetic
383     Computer studies
384     Decimalisation
385     Numeric analysis
386     Elasticity
387     Hydrodynamics
388     Probability the
389     Statistics
390     Theoretic astro
391     Technology maths
392     Systems intern
393     Computer science
394     Physics
395     Applied physics
396     Applied astronom
397     Mathemat physics
398     Nuclear physics
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399    Astrophysics
400    Radio astronomy
401    Radiation prote
402    Environ sciences
403    Oceanography
404    Meterology
405    General science
406    Science lab tech
407    maths/physics
408    Maths, other sc
409    combi phys sc
410    combi sciences
411    sci+oth group
420    Economics
421    Econ/statistics
422    Economic history
423    Economic organ
424    Indust economics
425    geography
426    Law
427    legal executives
428    Social Sciences
429    Sociology
430    Humanit/social
431    Indust relations
432    Social admin
433    Social Work
434    Careers guidance
435    Youth/community
436    Youth employment
437    Psychology
438    Social anthropo
439    Other ec,law
440    com of e,law
441    Account,bank & law
442    Accountancy
443    Book-keeping
444    Law accounting
445    Costs accouting
446    Actuarial stud
447    Banking/currency
448    Insurance
449    Municipal treas
450    Stock exchange
451    Taxation
452    Govt & pub admin
453    Civil defence
454    Central govt
455    Fire service
456    Hospital admin
457    Inter relat
458    Local govt
459    Police
460    Political sci
461    Management/sci
462    Admin general
463    busness admin
464    Company secretar
465    Computer analy
466    Cybernetics(MM)
467    Industrial admin
468    Indust foremansp
469    Industrial organ
470    Indust training
471    information sci
472    organisation
473    MM,construction
474    MM,estate
475    MM,housing
```

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476    MM,office
477    MM,personnel
478    MM,production
479    MM,works
480    MM,sales
481    marketing/sales
482    Ops research
483    Quality control
484    Time/motion
485    Work Study
486    other MM studies
488    Supervisory stud
489    Secretarial stud
490    Agri secretaires
491    Clerical
492    Personal Assist
493    Shorthand typist
494    Typing
495    Med secretaries
496    Advertising
497    Business stud
498    Commerce
499    Business Machine
500    Commercial trav
501    Computer lang
502    Computer operat
503    Computer prog
504    Data processing
505    Estate agency
506    Export practice
507    Office studies
508    Purchasing
509    Salesmanship
510    Sales reps
511    Shipbroking
512    Switchboard
513    Travel agency
514    Oth social admin
515    Combi social
516    Combi social+oth
517    Computing
519    Architecture
520    Landscape arch
521    Land use
522    Town/Country
523    Conservation
524    resours planning
525    Catering mment
526    Catering
527    Cookery hotel
528    Hotel/catering
529    Hotel bookkeep
530    Institutional mm
531    Licenced house
532    Preliminary cook
533    Waiters/hotel
534    Institutial cat
535    Home economics
536    DS.Dress/design
537    DS.Food/nutritio
538    Domestic studies
539    Cookery
540    Dressmaking
541    Home management
542    Houseworking
543    Millinery,dom
544    Needlework
545    Tailoring,domest
546    Soft furnishings
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547    Weaving
548    Nautical studies
549    Fishing
550    Nautical caterin
551    Nautical science
552    Radio-telegraphy
553    Seamanship
554    Transport
555    Air transport
556    Rail transport
557    Road transport
558    Shipping
559    Wholesale/retail
560    Retailing
561    Flower display
562    General dist
563    Grocery
564    Paper merchant
565    Retail dist
566    Retail MM
567    Stationery
568    Textile dist
569    Other proff/voc
570    Hairdressing
571    Laundry
572    Journalism
573    Libraianship
574    Trichology
575    Photography
576    Liberal studies
578    Civics
579    Current affairs
580    Modern studies
581    mis proff/voc
582    combi of 569
583    combi 569/oth
600    English lang/lit
601    English foreign
602    Gaelic/Celtic
603    French
604    German
605    French/German
606    Spanish
607    Danish
608    Dutch
609    Italian
610    Norwegian
611    Portugese
612    Swedish
613    Other West Euro
614    Russian
615    Other Euro lang
616    Classical stud
617    Orient,Asian,Af
618    Other languages
619    Modern lang
620    combi lang cours
621    combi lang/grou
650    Archaeology
651    History
652    Philosophy
653    Moral sciences
654    Logic
655    Theology
656    Arts general
657    Combi arts/other
669    Art & Design
670    Art
671    Design
```

```
672     Jewel design
673     Antiques
674     Ceramics
675     Fashion design
676     Furn design
677     Graphic design
678     Handicrafts
679     History of art
680     Indust design
681     indust glass des
682     interior design
683     lettering
684     Painting
685     Sculpture
686     Stained glass
687     Textile design
688     Window dressing
689     Woodcarving
699     Drama/entertain
700     drama
701     Speech
702     Cinema & film
703     music
704     music,dram nec
705     music,drama co
706     Subject given
707     no sub given
708     More than 1 cse
709     GHS unacceptable
710     Alternative med
711     Driving qualif
713     Leisure
715     First Aid
716     Sign language
717     Security
718     in-house train
```

Appendix 3: Comments on Coding

The following comments on the coding have been supplied by the University of Manchester:

"COMMENTS ON CODING OF SUBJECTS FOR NCDS5 (AD:8/94)

 The coding of subjects followed in general the NCDS subject
 code frame, however, if there was a need for some new categories
 of qualifications to be created for those subjects which did not
 appear to fit in the coding frame; these new classifications are
 given below:

 In the listing files, serial numbers 513081Q, 630022B, 987084U
 090011Q were listed twice in the files, however, in each case the
 subject given was the same.

 ADDITIONAL CLASSIFICATIONS

 GHS Unacceptable   code 709

   Subjects were coded as 709, if they were listed as unacceptable
   in the General Household Survey.

 Alternative Medicine   code 710

   This included the following qualifications; hypnotherapy, art
   therapy, aromatherapy, massage, reflexology, homeopathy, drama
   therapy.

 Building/Construction/Driving   code 711

   HGV, Fork-lift Truck licence, PSV, Driving instructor, motor
   cycle licence, side load driver, mercury training.

 Leisure   code 713

   RS 1 rally sports1
   Physical training
   Basketball referee
   Certificate of movement and dance
   British canoe union instructors award
   County swimming teaching certificate
   day skipper certificate
   British amateur gym association
   Mountain Walker leader
   County rock climbing foundation
   Fellowship in dancing
   YMCA aerobics teacher training course
   Cricket Coaching
   Qualified weight training instructors course
   British Sport therapist
   Senior instructor on Kayak
   Rugby league coach
   swimming coach
   yacht master
   British Wheel of Yoga   Other sports

 FIRST AID   CODE 715

Life saving
  Off-shore survival
  St Johns Certificate
  Red Cross

Social and Caring qualifications   code 716
  Sign language

Security   code 717

  alarm fitting, security guards, use of pistols and fire arms.

In-house qualifications   code 718

  assertiveness training, public speaking, report writing skills,
  evaluation and assessing staff.
  problem solving
  negotiation skills
  presentation skills

Not applicable   code 900

    Cases where the subject was given as na, were coded as 900,
    to make it possible to differentiate between no subject given
    (707), GHS unacceptable (709) and na (900).

GENERAL NOTES ON THE CODING OF SUBJECTS

Many cases were labelled just 'engineering'; these were coded as
general or other engineering. Similarly, if a subject was given
as just 'management' it was coded 'other management' 486,

For the evening class subjects, 713 includes sports which people
did at night classes.

Word processing courses were coded as clerical (491).

PROBLEM CASES

Question 5

The following serial numbers were found in the listing files
qb05a1.txt and qb05a2.txt but were not in the serial numbers
which were used for checking the data to make sure that it
matched correctly. These have been coded but do not map into the
NCDS5 database that we are using. These are:

  QB05A1.TXT   QB05A2.TXT
  092345H   092345H
  092480P   092480P
  482004C   986117B
  986117B   987084U
  X80179J   X80179J
  X90016K

Question 13

The following serial numbers were in the listing files but again
not in our NCDS5 database.

```
290030K
482004C
825060W
937006Q
X46046U
X80179J
X90016K
Y00502U
Y00503W
```

Question 21

```
092480P
290030K
482004C
630022B
950157N
986117B
X90016K
Y00403S
```

The check to make sure that if a respondent had given a second
qualification, they had a first qualification gave the following
serial numbers as having a second and not a first:

  010130W, 110191A.

There are duplicate entries for the files for q5,q13 and q22.
  630022B AND 987084U."