

# Manpower Utilization Quasi-longitudinal Data : 2007-2008

## Code Book

| ques.num.               | variable name <sup>1</sup> | variable label                                           | value label                                                                                                                                                                                                                                                                                      | note |
|-------------------------|----------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>Part I: Manpower</b> |                            |                                                          |                                                                                                                                                                                                                                                                                                  |      |
|                         | year                       | The survey year                                          |                                                                                                                                                                                                                                                                                                  |      |
|                         | area                       | Region                                                   | 1. Taipei City<br>2. Taiwan Province<br>3. Kaohsiung City                                                                                                                                                                                                                                        |      |
|                         | stage                      | Stratum                                                  |                                                                                                                                                                                                                                                                                                  |      |
|                         | sampleid                   | Sample code                                              |                                                                                                                                                                                                                                                                                                  |      |
|                         | prefid                     | County code                                              | Refer to Appendix 1                                                                                                                                                                                                                                                                              |      |
|                         | hussize                    | Persons aged 15 years or over in each sampled household  |                                                                                                                                                                                                                                                                                                  |      |
|                         | memberid                   | Serial no. of interviewees in household                  | Householder is 1, and the others are filled by the household registration order.                                                                                                                                                                                                                 |      |
| 0                       | respstatus                 | Are questions answered by interviewees himself/herself ? | 1. Yes, by himself/herself<br>2. Equivalent<br>3. No, proxy                                                                                                                                                                                                                                      |      |
| 1                       | relahushead                | Relationship to householder                              | 01. Householder<br>02. Spouse<br>03. Child<br>04. Grandchild<br>05. Parent<br>06. Grandparent<br>07. Brother/Sister<br>08. Child's spouse<br>09. Grandchild's spouse<br>10. Brother's/Sister's spouse<br>11. Spouse's parent<br>12. Spouse's brother/sister<br>13. Other relatives<br>14. Others |      |
| 2                       | sex                        | Sex                                                      | 1. Male<br>2. Female                                                                                                                                                                                                                                                                             |      |
| 3                       | age                        | Current age in full years                                |                                                                                                                                                                                                                                                                                                  |      |
| 4                       | marital                    | Marital status                                           | 1. Never married<br>2. Married and cohabited<br>3. Divorced or separated<br>4. Widowed                                                                                                                                                                                                           |      |
| 5-1                     | schoolstatus               | Are you attending schools currently ?                    | 1. Yes<br>2. No, had been graduated<br>3. No, had been suspended<br>4. No, never attended any school that is (was) approved by the ministry of education                                                                                                                                         |      |
| 5-2                     | edu                        | Educational attainment (highest)                         | 01. Illiterate<br>02. Self-educated                                                                                                                                                                                                                                                              |      |

<sup>1</sup> Variables in the data file name by adding "\_1" and "\_2", "\_1" for the first phase of the data, "\_2" for the second phase of data.

| ques.num. | variable name <sup>1</sup>              | variable label                                                                                                                 | value label                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | note |
|-----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|           |                                         |                                                                                                                                | 03. Primary school<br>04. Junior high school<br>05. Senior high school<br>06. Vocational school<br>07. Junior college<br>08. University<br>09. Master's<br>10. Ph. D's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |
| 6         | discipline                              | Academic or professional specialty                                                                                             | 01. Literature<br>02. Law<br>03. Business , management<br>04. Science<br>05. Engineering<br>06. Agriculture<br>07. Medical<br>08. Military and police<br>09. Education<br>10. Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |
| 7         | retire                                  | Did you retire from any public/private establishments before ? (Have you retire from any public/private establishments yet ? ) | 1. Yes<br>2. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| 8         | work                                    | What were you doing during most of last week ?                                                                                 | 01. Undertaking a kind of work<br>02. Undertaking works after school hours<br>03. Undertaking works after housekeeping<br>04. Having a job but not at work<br>05. Jobless but seeking one or waiting for an offer after seeking<br>06. Intend and be able to work but not seeking<br>07. Attending schools or rebrushing to take entrance exams (mark (2) and (5) respectively, if working part-time or seeking jobs simultaneously)<br>08. Housekeeping (mark (3) or (5) respectively, if working part-time or seeking jobs simultaneously)<br>09. Old age (elders aged 65 or over) or disable<br>10. Idleness<br>11. Wound or illness<br>12. In armed force, prison or missing<br>13. Others |      |
| 9         | a9                                      | Were you undertaking any paid or unpaid family work last week ?                                                                | 1. Undertaking work after school or housekeeping hours<br>2. Undertaking a kind of work<br>3. Having a job but not at work<br>4. Not undertaking any job                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |
| 10        | How many hours did you work last week ? |                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|           | workhour                                | For the major job: full time _____ hours                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |

| ques.num. | variable name <sup>1</sup>                    | variable label                                     | value label                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | note |
|-----------|-----------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|           | a10_1b                                        | For the major job: part time<br>_____ hours        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|           | a10_2a                                        | For the secondary job : full time<br>_____ hours   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| 10        | a10_2b                                        | For the secondary job : part time<br>_____ hours   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| 11        | whyunderwork                                  | Why did you work less than 35 hours last week ?    | 01. Unfavorable conditions of business<br>02. Fail to find any job which is higher than 35 hours<br>03. Seasonal reasons<br>04. Bad weather or natural calamities<br>05. Work itself only need less than 35 hours' efforts<br>06. Take care of children<br>07. Take care of elders<br>08. Busy in housekeeping<br>09. Busy in studying/attending school<br>10. Wound or illness, official holidays, personal leaves (sick leaves excluded), and special days off<br>11. Unwilling to work longer<br>12. Others |      |
| 12        | incworkhour                                   | Do you expect an increase of working hours ?       | 1. Yes<br>2. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| 13        | whynotworking                                 | Why were you absent from work last week ?          | 1. Wound of illness<br>2. Seasonal reasons<br>3. Official holidays, personal leaves (sick leaves excluded), and special days off<br>4. Decide to work shortly but no pay for that currently<br>5. Not at work resulted from accidents even though having employed and paid<br>6. Waiting for a recall<br>7. Others                                                                                                                                                                                             |      |
| 14        | ifjobispaid                                   | Did you earn any pay from work last week ?         | 1. Yes<br>2. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| 15        | a15                                           | If there is a job offer, can you take it at once ? | 1. Yes<br>3. No, because of attending school or rebrushing to take entrance exams<br>4. No, because of housekeeping<br>5. No, because of old age (elders aged 65 or over) or disable<br>6. No, because of idleness<br>7. No, because of wound or illness<br>8. No, because of others                                                                                                                                                                                                                           |      |
| 16        | How did you seek a job?( tick all that apply) |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| (1)       | jobsrh1                                       | Referenced by relatives, friends or teachers       | 0.No<br>1.Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |
| (2)       | jobsrh2                                       | Through private employment agencies                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |

| ques.num. | variable name <sup>1</sup>                                                 | variable label                                                                                                             | value label                                                                                                                                                                                                                                                          | note |
|-----------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| (3)       | jobsrh3                                                                    | Referring recruiting advertisements or posters                                                                             | 0.No<br>1.Yes                                                                                                                                                                                                                                                        |      |
| (4)       | jobsrh4                                                                    | Through public employment offices                                                                                          |                                                                                                                                                                                                                                                                      |      |
| (5)       | jobsrh5                                                                    | Through civil service exams and placement                                                                                  |                                                                                                                                                                                                                                                                      |      |
| (6)       | jobsrh6                                                                    | Others                                                                                                                     |                                                                                                                                                                                                                                                                      |      |
| 17        | srchp_fjob                                                                 | Do you expect a full-time job (weekly work hours are 40 or more) or a part-time job (weekly work hours are less than 40) ? | 1. A full-time job<br>2. A part-time job                                                                                                                                                                                                                             |      |
| 18        | unemplen                                                                   | How long did you take to seek a job or wait for a recall while you were jobless ? _____weeks                               | 99. Over 99 weeks                                                                                                                                                                                                                                                    |      |
| 19        | primaryworker                                                              | Did you have a job before ?                                                                                                | 1. Yes<br>2. No                                                                                                                                                                                                                                                      |      |
| 20        | whyunemp                                                                   | What was the main reason you left the last job mentioned in Q.19 ?                                                         | 1. Business shrunk or establishment closed<br>2. Not satisfied with that job<br>3. Ill health<br>4. Seasonal or temporary work of that job finished<br>5. Got married or gave birth (if interviewee is female)<br>6. Retired<br>7. Busy in housekeeping<br>8. Others |      |
| 21        | What is the main workplace you are/were in ?                               |                                                                                                                            |                                                                                                                                                                                                                                                                      |      |
|           | workpref                                                                   | county code                                                                                                                | Refer to Appendix 1                                                                                                                                                                                                                                                  |      |
| (1)       | worktown                                                                   | Location                                                                                                                   | Refer to Appendix 2                                                                                                                                                                                                                                                  |      |
| (2)       | indu                                                                       | Major products or business                                                                                                 | Refer to Appendix 3                                                                                                                                                                                                                                                  |      |
| (3)       | indusize                                                                   | Number of employees                                                                                                        | 1. 1 person<br>2. 2-9 persons<br>3. 10-29 persons<br>4. 30-49 persons<br>5. 50-99 persons<br>6. 100-199 persons<br>7. 200-499 persons<br>8. 500 persons or more<br>9. Government organization                                                                        |      |
| 21        | a21_b2                                                                     | What is the secondary workplace you are/were in ? (2) Major products or business                                           | Refer to Appendix 3                                                                                                                                                                                                                                                  |      |
| 22        | occu                                                                       | What is/was your duty in the main workplace mentioned in Q.21 ? A. Description of the major job                            | Refer to Appendix 4                                                                                                                                                                                                                                                  |      |
|           | a22_b                                                                      | What is/was your duty in the main workplace mentioned in Q.21 ? B. Description of the secondary job                        |                                                                                                                                                                                                                                                                      |      |
| 23        | What is/was the class of workers you are/were in for the undertaken work ? |                                                                                                                            |                                                                                                                                                                                                                                                                      |      |
| 23        | workstus                                                                   | A. For the major job                                                                                                       | 1. Employer<br>2. Own-account worker<br>3. Government employee<br>4. Private-sector employee<br>5. Unpaid family worker                                                                                                                                              |      |
|           | a23_b                                                                      | B. For the secondary job                                                                                                   |                                                                                                                                                                                                                                                                      |      |

| ques.num.                             | variable name <sup>1</sup>                                                                   | variable label                                                                                                             | value label                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | note |
|---------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| <b>Part II : Manpower Utilization</b> |                                                                                              |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
| 1                                     | income                                                                                       | How much monthly income did you earn from your major job?Monthly income: NT\$ _____                                        | 000001. Financial deficiency<br>999999. NT\$999,999 and over                                                                                                                                                                                                                                                                                                                                                                                                                       |      |
| 2                                     | b2_a                                                                                         | A. Do you work full-time or part-time at your main job?                                                                    | 1. Full-time<br>2. Part-time                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |
|                                       | b2_b                                                                                         | B. How many hours per week do you usually work in average? _____<br>Hours                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
|                                       | b2_c                                                                                         | C. Is it a temporary or dispatched work or not?                                                                            | 1. Yes<br>2. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
| 3                                     | How long have you worked at the present place? Duration of present employment                |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
|                                       | cjobyear                                                                                     | _____ Years                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
|                                       | cjobmonth                                                                                    | _____ Months                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
| 4                                     | b4                                                                                           | Before working at the present place, had you ever taken a gainful job or and unpaid family work for at least three months? | 1. Yes, ever<br>2. No, never                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |
| 5                                     | nochgjob                                                                                     | How many times have your working places been changed in 2006/2007?                                                         | 0. None<br>1. Once<br>2. Twice<br>3. Three times or more                                                                                                                                                                                                                                                                                                                                                                                                                           |      |
| 6                                     | Where was the place you previously worked and what sort of work did you mainly do up there ? |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
|                                       | pworkpref                                                                                    | A. Major working site :county code                                                                                         | Refer to Appendix 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|                                       | pworktown                                                                                    | A. Major working site (1) Location                                                                                         | Refer to Appendix 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|                                       | pindu                                                                                        | A. Major working site (2)Major products or business                                                                        | Refer to Appendix 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|                                       | pindusize                                                                                    | A. Major working site (3)Number of employees                                                                               | 1. 1 person<br>2. 2-9 persons<br>3. 10-29 persons<br>4. 30-49 persons<br>5. 50-99 persons<br>6. 100-199 persons<br>7. 200-499 persons<br>8. 500 persons or more<br>9. Government organization                                                                                                                                                                                                                                                                                      |      |
|                                       | poccu                                                                                        | B. Description of this major job                                                                                           | Refer to Appendix 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|                                       | b6_c                                                                                         | C. Is it a part-time, temporary or dispatched work or not ?                                                                | 1. Yes<br>2. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |
| 7                                     | whyquitpjob                                                                                  | Why did you leave the place where you previously worked ?                                                                  | 01.Own account worker (or employer) transfers to another job<br>02.Unpaid family worker transfers to another job<br>03.Employee who willingly left his/her last job: Low pay<br>04.Employee who willingly left his/her last job: Expect to change working place<br>05.Employee who willingly left his/her last job: : Inadequate working time<br>06.Employee who willingly left his/her last job: No job security<br>07.Employee who willingly left his/her last job: Poor working |      |

| ques.num. | variable name <sup>1</sup> | variable label                   | value label                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | note |
|-----------|----------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|           |                            |                                  | environment<br>08.Employee who willingly left his/her last job: Knowledge not met the job's need<br>09.Employee who willingly left his/her last job: Dim prospect<br>10.Employee who willingly left his/her last job: Ill health<br>11.Employee who willingly left his/her last job: Female employee getting married or giving birth<br>12.Employee who willingly left his/her last job: Voluntarily retired<br>13.Employee who willingly left his/her last job: Establish self own business/enterprise<br>14.Employee who willingly left his/her last job: Others<br>15.Employee who unwillingly left his/her last job: Workplace shutout or business downsize<br>16.Employee who unwillingly left his/her last job: Seasonal or temporary job completed<br>17.Employee who unwillingly left his/her last job: Layoff because of personnel reorganization in last workplace<br>18.Employee who unwillingly left his/her last job: Female employee getting married or giving birth<br>19.Employee who unwillingly left his/her last job: Relocated across workplaces but within enterprise<br>20.Employee who unwillingly left his/her last job: Mandatorily retired<br>21.Employee who unwillingly left his/her last job: Others |      |
| 8         | waygetcjob                 | How did you get the present job? | 01.Introduced by relatives/friends or teachers<br>02.Through employment service offices in schools<br>03.Through public employment service agencies<br>04.Through private employment agencies<br>05.Through labor unions<br>06.Referring advertisements or posters<br>07.Passed government exams and joined placements for civil service<br>08.Relocated across workplaces but                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |

| ques.num. | variable name <sup>1</sup>                                    | variable label                                                                                                  | value label                                                                                                                                                                             | note |
|-----------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|           |                                                               |                                                                                                                 | within enterprise<br>09. Self/family own business<br>10. Others                                                                                                                         |      |
| 9         | inttochgjob                                                   | Do you expect to change job or add an additional job in the meantime?                                           | 1. Expect to change job<br>2. Expect to add an additional job<br>3. Not expected to seek another job                                                                                    |      |
| 10        | startsrhjob                                                   | Have you begun to seek a job?                                                                                   | 1. Yes, I have<br>2. No, I have not                                                                                                                                                     |      |
| 11        | expoccu                                                       | A. What kind of job do you expect to find? Your expected job title                                              | Refer to Appendix 4                                                                                                                                                                     |      |
|           | expincome                                                     | B. How much monthly pay do you expect?                                                                          |                                                                                                                                                                                         |      |
|           | b11_c                                                         | C. Is it a part-time, temporary or dispatched work or not?                                                      | 1. Yes<br>2. No                                                                                                                                                                         |      |
| 12        | Did you encounter any job opportunity while you were seeking? |                                                                                                                 |                                                                                                                                                                                         |      |
|           | havingjobopp                                                  | A. Yes. What was the main reason that you did not go for it?                                                    | 1. Pay too low<br>2. Unpreferable working location<br>3. Poor working environment<br>4. Inadequate working hours                                                                        |      |
|           | b12_a2                                                        | A. Yes. What was the secondary reason that you did not go for it?                                               | 5. Knowledge can't meet the job's need                                                                                                                                                  |      |
|           | b12_a3                                                        | A. Yes. What was the sub-secondary reason that you did not go for it?                                           | 6. Dim prospect<br>7. Not matching personal interests<br>8. Others                                                                                                                      |      |
|           | nojobopp                                                      | B. No. What was the major difficulty that you faced in job seeking?                                             | 1. Interviewee's expertise unfitted to job openings<br>2. Interviewee's educational attainment unfitted to job openings                                                                 |      |
|           | b12_b2                                                        | B. No. What was the secondary difficulty that you faced in job seeking?                                         | 3. Age limit imposed on job openings                                                                                                                                                    |      |
| 13        | livcostsrc                                                    | What did you depend on for living while seeking a job?                                                          | 4. Sex status restricted on job openings<br>5. Language barrier<br>6. Marital status restricted on job openings<br>7. Job feature unfitted<br>8. Others                                 |      |
|           |                                                               |                                                                                                                 |                                                                                                                                                                                         |      |
| 14        | b14_1                                                         | Were you employed more than 3 months or worked as an unpaid family worker in 2006/2007? What is your job title? | 1. Personal savings<br>2. Family supports<br>3. Layoff settlement or pension<br>4. Unemployment insurance or other unemployment allowances from government<br>5. Loans or other sources |      |
|           | b14_2                                                         | Were you employed more than 3 months or worked as an unpaid family worker in 2006/2007?                         | Refer to Appendix 4<br>2. No                                                                                                                                                            |      |

| ques.num. | variable name <sup>1</sup>                                                                                                                               | variable label                                                        | value label                                                                                                                                                                                                                                                                                                                                            | note                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 15        | b15                                                                                                                                                      | Why did you quit your job? (Unpaid family workers skip this question) | 1. Attending schools or rebrushing to take entrance exams<br>2. Housekeeping<br>3. Female employee getting married or giving birth<br>4. Family finance getting better<br>5. Wound or illness<br>6. Retired<br>7. Seasonal or temporary job completed<br>8. Workplace shutout or business downsize<br>9. Others                                        |                                                 |
| 16        | b16                                                                                                                                                      | Did you seek for a job in 2006/2007? Why did you stop seeking?        | 1. Yes. Believes no job available in the market .<br>2. Yes. Lacks necessary schooling, training, skills or experiences etc., couldn't find any job.<br>3. Yes. Other reasons, so stop seeking.<br>4. No. Not sought yet in 2006/2007                                                                                                                  |                                                 |
| 17        | If the work condition (pay, working site, working hours, working environment and so on) of a job ideally meet your requirement, are you willing to work? |                                                                       |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b17_a1                                                                                                                                                   | A. Yes, expected job title                                            | Refer to Appendix 4                                                                                                                                                                                                                                                                                                                                    |                                                 |
|           | b17_a2                                                                                                                                                   | A. Yes, expected working location                                     | Refer to Appendix 2                                                                                                                                                                                                                                                                                                                                    |                                                 |
|           | b17_a3                                                                                                                                                   | A. Yes, expected monthly pay                                          |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b17_a4                                                                                                                                                   | A. Yes, expected job type                                             | 1. Full-time job<br>2. Part-time job                                                                                                                                                                                                                                                                                                                   |                                                 |
|           | b17_a5                                                                                                                                                   | A. Yes, to work as a temporary or dispatched worker                   | 1. Yes<br>2. No                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b17_b                                                                                                                                                    | B. No. Why not to work?                                               | 1. Female employee getting married or giving birth<br>2. Family finance is good enough, no need to work<br>3. Responsibility in taking care of family members<br>4. Ill health, wound or illness<br>5. Attending schools or rebrushing to take entrance exams<br>6. Waiting for conscription<br>7. Helping hands given to family business<br>8. Others |                                                 |
| 18        | How many children do you have? A. Have children:                                                                                                         |                                                                       |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b18_a1                                                                                                                                                   | children aged under 3 years ____persons                               |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b18_a2                                                                                                                                                   | children aged 3-6 years ____persons                                   |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b18_a3                                                                                                                                                   | children aged 6-15 years ____persons                                  |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b18_a4                                                                                                                                                   | children aged 15-18 years ____persons                                 |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | b18_a5                                                                                                                                                   | children aged over 18 years ____persons                               |                                                                                                                                                                                                                                                                                                                                                        |                                                 |
|           | havingchild                                                                                                                                              | How many children do you have?                                        | 1. No children yet<br>2. Have children                                                                                                                                                                                                                                                                                                                 | Married or cohabiting women have been answered. |
|           | weight                                                                                                                                                   | Weight                                                                |                                                                                                                                                                                                                                                                                                                                                        |                                                 |



| ques.num. | variable name <sup>1</sup> | variable label                               | value label           | note             |
|-----------|----------------------------|----------------------------------------------|-----------------------|------------------|
|           | newjobopp                  | Do you have new job opportunity?             | 1.Yes<br>2.No         | Created variable |
|           | cjobseniority              | Job tenure                                   | cjobyear+cjobmonth/12 |                  |
|           | adjwei_1                   | Phase I expansion of the weighted            |                       |                  |
|           | adjwei_2                   | Phase II expansion of the weighted           |                       |                  |
|           | avgadjwei                  | The weighted average of Phase I and Phase II |                       |                  |

## **Appendix 1 County Code**

|    |                                                |
|----|------------------------------------------------|
| 01 | Taipei County                                  |
| 02 | Yilan County                                   |
| 03 | Taoyuan County                                 |
| 04 | Hsinchu County                                 |
| 05 | Miaoli County                                  |
| 06 | Taichung County                                |
| 07 | Changhua County                                |
| 08 | Nantou County                                  |
| 09 | Yunlin County                                  |
| 10 | Chiayi County                                  |
| 11 | Tainan County                                  |
| 12 | Kaohsiung County                               |
| 13 | Pingtung County                                |
| 14 | Taitung County                                 |
| 15 | Hualien County                                 |
| 16 | Penghu County                                  |
| 17 | Keelung City                                   |
| 18 | Hsinchu City                                   |
| 19 | Taichung City                                  |
| 20 | Chiayi City                                    |
| 21 | Tainan City                                    |
| 63 | Taipei City                                    |
| 64 | Kaohsiung City                                 |
| 65 | Kinmen County and Matsu County                 |
| 66 | Mainland China (including Hong Kong and Macao) |
| 67 | Foreign Area                                   |

## Appendix 2 Townships Code

|     |                                  |     |                                   |     |                                     |
|-----|----------------------------------|-----|-----------------------------------|-----|-------------------------------------|
| 100 | Taipei County                    | 207 | Yuanshan Township, Yilan County   | 412 | Jianshih Township, Hsinchu County   |
| 101 | Banciao City, Taipei County      | 208 | Dongshan Township, Yilan County   | 413 | Wufong Township, Hsinchu County     |
| 102 | Sanchong City, Taipei County     | 209 | Wujie Township, Yilan County      | 500 | Miaoli County                       |
| 103 | Jhonghe City, Taipei County      | 210 | Sansing Township, Yilan County    | 501 | Miaoli City, Miaoli County          |
| 104 | Yonghe City, Taipei County       | 211 | Datong Township, Yilan County     | 502 | Yuanli Township, Miaoli County      |
| 105 | Sinjhuang City, Taipei County    | 212 | Nanao Township, Yilan County      | 503 | Tongsiao Township, Miaoli County    |
| 106 | Sindian City, Taipei County      | 300 | Taoyuan County                    | 504 | Jhunan Township, Miaoli County      |
| 107 | Shulin City, Taipei County       | 301 | Taoyuan City, Taoyuan County      | 505 | Toufen Township, Miaoli County      |
| 108 | Yingge Township, Taipei County   | 302 | Jhongli City, Taoyuan County      | 506 | Houlong Township, Miaoli County     |
| 109 | Sansia Township, Taipei County   | 303 | Dasi Township, Taoyuan County     | 507 | Jhuolan Township, Miaoli County     |
| 110 | Danshuei Township, Taipei County | 304 | Yangmei Township, Taoyuan County  | 508 | Dahu Township, Miaoli County        |
| 111 | Sijhih City, Taipei County       | 305 | Lujhu Township, Taoyuan County    | 509 | Gongguan Township, Miaoli County    |
| 112 | Rueifang Township, Taipei County | 306 | Dayuan Township, Taoyuan County   | 510 | Tongluo Township, Miaoli County     |
| 113 | Tucheng City, Taipei County      | 307 | Gueishan Township, Taoyuan County | 511 | Nanjhuang Township, Miaoli County   |
| 114 | Lujhou City, Taipei County       | 308 | Bade City, Taoyuan County         | 512 | Touwu Township, Miaoli County       |
| 115 | Wugu Township, Taipei County     | 309 | Longtan Township, Taoyuan County  | 513 | Sanyi Township, Miaoli County       |
| 116 | Taishan Township, Taipei County  | 310 | Pingjhen City, Taoyuan County     | 514 | Sihu Township, Miaoli County        |
| 117 | Linkou Township, Taipei County   | 311 | Sinwu Township, Taoyuan County    | 515 | Zaociao Township, Miaoli County     |
| 118 | Shenkeng Township, Taipei County | 312 | Guanyin Township, Taoyuan County  | 516 | Sanwan Township, Miaoli County      |
| 119 | Shihding Township, Taipei County | 313 | Fusing Township, Taoyuan County   | 517 | Shihtan Township, Miaoli County     |
| 120 | Pinglin Township, Taipei County  | 400 | Hsinchu County                    | 518 | Taian Township, Miaoli County       |
| 121 | Sanjhih Township, Taipei County  | 401 | Jhubei City, Hsinchu County       | 600 | Taichung County                     |
| 122 | Shihmen Township, Taipei County  | 402 | Jhudong Township, Hsinchu County  | 601 | Fongyuan City, Taichung County      |
| 123 | Bali Township, Taipei County     | 403 | Sinpu Township, Hsinchu County    | 602 | Dongshih Township, Taichung County  |
| 124 | Pingsi Township, Taipei County   | 404 | Guansi Township, Hsinchu County   | 603 | Dajia Township, Taichung County     |
| 125 | Shuangsi Township, Taipei County | 405 | Hukou Township, Hsinchu County    | 604 | Cingshuei Township, Taichung County |
| 126 | Gongliao Township, Taipei County | 406 | Sinfong Township, Hsinchu County  | 605 | Shalu Township, Taichung County     |
| 127 | Jinshan Township, Taipei County  | 407 | Cyonglin Township, Hsinchu County | 606 | Wuci Township, Taichung County      |
| 128 | Wanli Township, Taipei County    | 408 | Hengshan Township, Hsinchu County | 607 | Houli Township, Taichung County     |
| 129 | Wulai Township, Taipei County    | 409 | Beipu Township, Hsinchu County    | 608 | Shengang Township, Taichung County  |
| 200 | Yilan County                     | 410 | Baoshan Township, Hsinchu County  | 609 | Tanzih Township, Taichung County    |
| 201 | Yilan City, Yilan County         | 411 | Emei Township, Hsinchu County     |     |                                     |
| 202 | Luodong Township, Yilan County   |     |                                   |     |                                     |
| 203 | Suao Township, Yilan County      |     |                                   |     |                                     |
| 204 | Toucheng Township, Yilan County  |     |                                   |     |                                     |
| 205 | Jiaosi Township, Yilan County    |     |                                   |     |                                     |
| 206 | Jhuangwei Township, Yilan County |     |                                   |     |                                     |

|     |                                     |     |                                    |      |                                    |
|-----|-------------------------------------|-----|------------------------------------|------|------------------------------------|
| 610 | Daya Township, Taichung County      | 720 | Erlin Township, Changhua County    | 913  | Mailiao Township, Yunlin County    |
| 611 | Sinshe Township, Taichung County    | 721 | Tianwei Township, Changhua County  | 914  | Dongshih Township, Yunlin County   |
| 612 | Shihgang Township, Taichung County  | 722 | Beitou Township, Changhua County   | 915  | Baojhong Township, Yunlin County   |
| 613 | Waipu Township, Taichung County     | 723 | Fangyuan Township, Changhua County | 916  | Taisi Township, Yunlin County      |
| 614 | Daan Township, Taichung County      | 724 | Dacheng Township, Changhua County  | 917  | Yuanchang Township, Yunlin County  |
| 615 | Wurih Township, Taichung County     | 725 | Jhutang Township, Changhua County  | 918  | Sihhu Township, Yunlin County      |
| 616 | Dadu Township, Taichung County      | 726 | Sijhou Township, Changhua County   | 919  | Kouhu Township, Yunlin County      |
| 617 | Longjing Township, Taichung County  | 800 | Nantou County                      | 920  | Shueilin Township, Yunlin County   |
| 618 | Wufong Township, Taichung County    | 801 | Nantou City, Nantou County         | 1000 | Chiayi County                      |
| 619 | Taiping City, Taichung County       | 802 | Puli Township, Nantou County       | 1001 | Taibao City, Chiayi County         |
| 620 | Dali City, Taichung County          | 803 | Caotun Township, Nantou County     | 1002 | Puzih City, Chiayi County          |
| 621 | Heping Township, Taichung County    | 804 | Jhushan Township, Nantou County    | 1003 | Budai Township, Chiayi County      |
| 700 | Changhua County                     | 805 | Jiji Township, Nantou County       | 1004 | Dalin Township, Chiayi County      |
| 701 | Changhua City, Changhua County      | 806 | Mingjian Township, Nantou County   | 1005 | Minsyong Township, Chiayi County   |
| 702 | Lugang Township, Changhua County    | 807 | Lugu Township, Nantou County       | 1006 | Sikou Township, Chiayi County      |
| 703 | Hemei Township, Changhua County     | 808 | Jhongliao Township, Nantou County  | 1007 | Singang Township, Chiayi County    |
| 704 | Siansi Township, Changhua County    | 809 | Yuchih Township, Nantou County     | 1008 | Lioujiao Township, Chiayi County   |
| 705 | Shengang Township, Changhua County  | 810 | Guosing Township, Nantou County    | 1009 | Dongshih Township, Chiayi County   |
| 706 | Fusing Township, Changhua County    | 811 | Shueili Township, Nantou County    | 1010 | Yijhu Township, Chiayi County      |
| 707 | Sioushuei Township, Changhua County | 812 | Sinyi Township, Nantou County      | 1011 | Lucao Township, Chiayi County      |
| 708 | Huatan Township, Changhua County    | 813 | Renai Township, Nantou County      | 1012 | Shueishang Township, Chiayi County |
| 709 | Fenyuan Township, Changhua County   | 900 | Yunlin County                      | 1013 | Jhongpu Township, Chiayi County    |
| 710 | Yuanlin Township, Changhua County   | 901 | Douliou City, Yunlin County        | 1014 | Jhuci Township, Chiayi County      |
| 711 | Sihu Township, Changhua County      | 902 | Dounan Township, Yunlin County     | 1015 | Meishan Township, Chiayi County    |
| 712 | Tianjhong Township, Changhua County | 903 | Huwei Township, Yunlin County      | 1016 | Fanlu Township, Chiayi County      |
| 713 | Dacun Township, Changhua County     | 904 | Siluo Township, Yunlin County      | 1017 | Dapu Township, Chiayi County       |
| 714 | Puyan Township, Changhua County     | 905 | Tuku Township, Yunlin County       | 1018 | Alishan Township, Chiayi County    |
| 715 | Pusin Township, Changhua County     | 906 | Beigang Township, Yunlin County    | 1100 | Tainan County                      |
| 716 | Yongjing Township, Changhua County  | 907 | Gukeng Township, Yunlin County     | 1101 | Sinying City, Tainan County        |
| 717 | Shetou Township, Changhua County    | 908 | Dabi Township, Yunlin County       | 1102 | Yanshuei Township, Tainan County   |
| 718 | Ershuei Township, Changhua County   | 909 | Cihtong Township, Yunlin County    | 1103 | Baihe Township, Tainan County      |
| 719 | Beidou Township, Changhua County    | 910 | Linnei Township, Yunlin County     | 1104 | Liouying Township, Tainan County   |
|     |                                     | 911 | Erlun Township, Yunlin County      | 1105 | Houbi Township, Tainan County      |
|     |                                     | 912 | Lunbei Township, Yunlin County     |      |                                    |

|                                         |                                          |                                         |
|-----------------------------------------|------------------------------------------|-----------------------------------------|
| 1106 Dongshan Township, Tainan County   | County                                   | 1310 Yanpu Township, Pingtung County    |
| 1107 Madou Township, Tainan County      | 1207 Niasong Township, Kaohsiung County  | 1311 Gaoshu Township, Pingtung County   |
| 1108 Siaying Township, Tainan County    | 1208 Gangshan Township, Kaohsiung County | 1312 Wanluan Township, Pingtung County  |
| 1109 Lioujia Township, Tainan County    | 1209 Ciaotou Township, Kaohsiung County  | 1313 Neipu Township, Pingtung County    |
| 1110 Guantian Township, Tainan County   | 1210 Yanchao Township, Kaohsiung County  | 1314 Jhutian Township, Pingtung County  |
| 1111 Danei Township, Tainan County      | 1211 Tianliao Township, Kaohsiung County | 1315 Sinbi Township, Pingtung County    |
| 1112 Jiali Township, Tainan County      | 1212 Alian Township, Kaohsiung County    | 1316 Fangliao Township, Pingtung County |
| 1113 Syuejia Township, Tainan County    | 1213 Lujhu Township, Kaohsiung County    | 1317 Sinyuan Township, Pingtung County  |
| 1114 Sigang Township, Tainan County     | 1214 Hunei Township, Kaohsiung County    | 1318 Kanding Township, Pingtung County  |
| 1115 Cigu Township, Tainan County       | 1215 Jiading Township, Kaohsiung County  | 1319 Linbian Township, Pingtung County  |
| 1116 Jiangjyun Township, Tainan County  | 1216 Yongan Township, Kaohsiung County   | 1320 Nanjhou Township, Pingtung County  |
| 1117 Beimen Township, Tainan County     | 1217 Mituo Township, Kaohsiung County    | 1321 Jiadong Township, Pingtung County  |
| 1118 Sinhua Township, Tainan County     | 1218 Zihguan Township, Kaohsiung County  | 1322 Liouciou Township, Pingtung County |
| 1119 Shanhua Township, Tainan County    | 1219 Cishan Township, Kaohsiung County   | 1323 Checheng Township, Pingtung County |
| 1120 Sinshih Township, Tainan County    | 1220 Meinong Township, Kaohsiung County  | 1324 Manjhou Township, Pingtung County  |
| 1121 Anding Township, Tainan County     | 1221 Liouguei Township, Kaohsiung County | 1325 Fangshan Township, Pingtung County |
| 1122 Shanshang Township, Tainan County  | 1222 Jiasian Township, Kaohsiung County  | 1326 Sandimen Township, Pingtung County |
| 1123 Yujing Township, Tainan County     | 1223 Shanlin Township, Kaohsiung County  | 1327 Wutai Township, Pingtung County    |
| 1124 Nansi Township, Tainan County      | 1224 Neimen Township, Kaohsiung County   | 1328 Majia Township, Pingtung County    |
| 1125 Nanhua Township, Tainan County     | 1225 Maolin Township, Kaohsiung County   | 1329 Taiwu Township, Pingtung County    |
| 1126 Zuojhen Township, Tainan County    | 1226 Taoyuan Township, Kaohsiung County  | 1330 Laiyi Township, Pingtung County    |
| 1127 Rende Township, Tainan County      | 1227 Sanmin Township, Kaohsiung County   | 1331 Chunrih Township, Pingtung County  |
| 1128 Gueiren Township, Tainan County    | 1300 Pingtung County                     | 1332 Shihzih Township, Pingtung County  |
| 1129 Guanmiao Township, Tainan County   | 1301 Pingtung City, Pingtung County      | 1333 Mudan Township, Pingtung County    |
| 1130 Longci Township, Tainan County     | 1302 Chaojhou Township, Pingtung County  | 1400 Taitung County                     |
| 1131 Yongkang City, Tainan County       | 1303 Donggang Township, Pingtung County  | 1401 Taitung City, Taitung County       |
| 1200 Kaohsiung County                   | 1304 Hengchun Township, Pingtung County  | 1402 Chenggong Township, Taitung County |
| 1201 Fongshan City, Kaohsiung County    | 1305 Wandan Township, Pingtung County    | 1403 Guanshan Township, Taitung County  |
| 1202 Linyuan Township, Kaohsiung County | 1306 Changjhih Township, Pingtung County | 1404 Beinan Township, Taitung County    |
| 1203 Daliao Township, Kaohsiung County  | 1307 Linluo Township, Pingtung County    | 1405 Luye Township, Taitung County      |
| 1204 Dashu Township, Kaohsiung County   | 1308 Jiouru Township, Pingtung County    | 1406 Chihshang Township, Taitung County |
| 1205 Dashe Township, Kaohsiung County   | 1309 Ligang Township, Pingtung County    | 1407 Donghe Township, Taitung County    |
| 1206 Renwu Township, Kaohsiung County   |                                          |                                         |

|                                        |                                      |                                           |
|----------------------------------------|--------------------------------------|-------------------------------------------|
| 1408 Changbin Township, Taitung County | 1603 Baisha Township, Penghu County  | 6307 Wanhua Dist., Taipei City            |
| 1409 Taimali Township, Taitung County  | 1604 Siyu Township, Penghu County    | 6308 Wunshan Dist., Taipei City           |
| 1410 Dawu Township, Taitung County     | 1605 Wangan Township, Penghu County  | 6309 Nangang Dist., Taipei City           |
| 1411 Lyudao Township, Taitung County   | 1606 Cimei Township, Penghu County   | 6310 Neihu Dist., Taipei City             |
| 1412 Haiduan Township, Taitung County  | 1700 Keelung City                    | 6311 Shihlin Dist., Taipei City           |
| 1413 Yanping Township, Taitung County  | 1701 Jhongjheng Dist., Keelung City  | 6312 Beitou Dist., Taipei City            |
| 1414 Jinfong Township, Taitung County  | 1702 Cidu Dist., Keelung City        | 6400 Kaohsiung City                       |
| 1415 Daren Township, Taitung County    | 1703 Nuannuan Dist., Keelung City    | 6401 Yancheng Dist., Kaohsiung City       |
| 1416 Lanyu Township, Taitung County    | 1704 Renai Dist., Keelung City       | 6402 Gushan Dist., Kaohsiung City         |
| 1500 Hualien County                    | 1705 Jhongshan Dist., Keelung City   | 6403 Zuoying Dist., Kaohsiung City        |
| 1501 Hualien City, Hualien County      | 1706 Anle Dist., Keelung City        | 6404 Nanzih Dist., Kaohsiung City         |
| 1502 Fonglin Township, Hualien County  | 1707 Sinyi Dist., Keelung City       | 6405 Sanmin Dist., Kaohsiung City         |
| 1503 Yuli Township, Hualien County     | 1800 Hsinchu City                    | 6406 Sinsing Dist., Kaohsiung City        |
| 1504 Sincheng Township, Hualien County | 1801 East Dist., Hsinchu City        | 6407 Cianjin Dist., Kaohsiung City        |
| 1505 Jian Township, Hualien County     | 1802 North Dist., Hsinchu City       | 6408 Lingya Dist., Kaohsiung City         |
| 1506 Shoufong Township, Hualien County | 1803 Siangshan Dist., Hsinchu City   | 6409 Cianjhen Dist., Kaohsiung City       |
| 1507 Guangfu Township, Hualien County  | 1900 Taichung City                   | 6410 Cijin Dist., Kaohsiung City          |
| 1508 Fongbin Township, Hualien County  | 1901 Central Dist., Taichung City    | 6411 Siaogang Dist., Kaohsiung City       |
| 1509 Rueisuei Township, Hualien County | 1902 East Dist., Taichung City       | 6500 Kinmen County 、Matsu                 |
| 1510 Fuli Township, Hualien County     | 1903 South Dist., Taichung City      | 6600 China 、Hong kong 、Macau Area         |
| 1511 Sioulin Township, Hualien County  | 1904 West Dist., Taichung City       | 6700 Foreign Area                         |
| 1512 Wanrong Township, Hualien County  | 1905 North Dist., Taichung City      | 7101 Nangan Township, Lienchiang County   |
| 1513 Jhuosi Township, Hualien County   | 1906 Situn Dist., Taichung City      | 7102 Beigan Township, Lienchiang County   |
| 1600 Penghu County                     | 1907 Nantun Dist., Taichung City     | 7103 Jyuguang Township, Lienchiang County |
| 1601 Magong City, Penghu County        | 1908 Beitun Dist., Taichung City     | 7104 Dongyin Township, Lienchiang County  |
| 1602 Husi Township, Penghu County      | 2000 Chiayi City                     | 7201 Jincheng Township, Kinmen County     |
|                                        | 2001 East Dist., Chiayi City         | 7202 Jinsha Township, Kinmen County       |
|                                        | 2002 West Dist., Chiayi City         | 7203 Jinhu Township, Kinmen County        |
|                                        | 2100 Tainan City                     | 7204 Jinning Township, Kinmen County      |
|                                        | 2101 East Dist., Tainan City         | 7205 Lieyu Township, Kinmen County        |
|                                        | 2102 South Dist., Tainan City        | 7206 Wuciou Township, Kinmen County       |
|                                        | 2104 North Dist., Tainan City        |                                           |
|                                        | 2106 Annan Dist., Tainan City        |                                           |
|                                        | 2107 Anping Dist., Tainan City       |                                           |
|                                        | 2108 West Central Dist., Tainan City |                                           |
|                                        | 6300 Taipei City                     |                                           |
|                                        | 6301 Songshan Dist., Taipei City     |                                           |
|                                        | 6302 Sinyi Dist., Taipei City        |                                           |
|                                        | 6303 Daan Dist., Taipei City         |                                           |
|                                        | 6304 Jhongshan Dist., Keelung City   |                                           |
|                                        | 6305 Jhongjheng Dist., Taipei City   |                                           |
|                                        | 6306 Datong Dist., Taipei City       |                                           |

### Appendix 3 Industry code

|    |                                                                         |    |                                                                                                            |
|----|-------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------|
| 01 | Agriculture and Animal Husbandry                                        | 52 | Support Activities for Transportation                                                                      |
| 02 | Forestry                                                                | 53 | Warehousing and Storage                                                                                    |
| 03 | Fishing                                                                 | 54 | Postal and Courier Activities                                                                              |
| 05 | Extraction of Crude Petroleum and Natural Gas                           | 55 | Accommodation                                                                                              |
| 06 | Quarrying of Stone, Sand and Clay                                       | 56 | Food and Beverage Service Activities                                                                       |
| 07 | Other Mining and Quarrying                                              | 58 | Publishing Activities                                                                                      |
| 08 | Manufacture of Food Products                                            | 59 | Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities |
| 09 | Manufacture of Beverages                                                | 60 | Programming and Broadcasting Activities                                                                    |
| 10 | Manufacture of Tobacco Products                                         | 61 | Telecommunications                                                                                         |
| 11 | Manufacture of Textiles                                                 | 62 | Computer Systems Design Services                                                                           |
| 12 | Manufacture of Wearing Apparel and Clothing Accessories                 | 63 | Information Service Activities                                                                             |
| 13 | Manufacture of Leather, Fur and Related Products                        | 64 | Financial Intermediation                                                                                   |
| 14 | Manufacture of Wood and of Products of Wood and Bamboo                  | 65 | Insurance                                                                                                  |
| 15 | Manufacture of Paper and Paper Products                                 | 66 | Securities, Futures and other Financing                                                                    |
| 16 | Printing and Reproduction of Recorded Media                             | 67 | Real Estate Development Activities                                                                         |
| 17 | Manufacture of Petroleum and Coal Products                              | 68 | Real Estate Operation and Related Activities                                                               |
| 18 | Manufacture of Chemical Material                                        | 69 | Legal and Accounting Activities                                                                            |
| 19 | Manufacture of Chemical Products                                        | 70 | Activities of Head Offices; Management Consultancy Activities                                              |
| 20 | Manufacture of Pharmaceuticals and Medical Chemical Products            | 71 | Architecture and Engineering Activities; Technical Testing and Analysis                                    |
| 21 | Manufacture of Rubber Products                                          | 72 | Scientific Research and Development                                                                        |
| 22 | Manufacture of Plastics Products                                        | 73 | Advertising and Market Research                                                                            |
| 23 | Manufacture of Other Non-metallic Mineral Products                      | 74 | Specialized Design Activities                                                                              |
| 24 | Manufacture of Basic Metals                                             | 75 | Veterinary Activities                                                                                      |
| 25 | Manufacture of Fabricated Metal Products                                | 76 | Other Professional, Scientific and Technical Activities                                                    |
| 26 | Manufacture of Electronic Parts and Components                          | 77 | Rental and Leasing Activities                                                                              |
| 27 | Manufacture of Computers, Electronic and Optical Products               | 78 | Employment Activities                                                                                      |
| 28 | Manufacture of Electrical Equipment                                     | 79 | Travel agency, Tour Operator, Reservation Service and Related Activities                                   |
| 29 | Manufacture of Machinery and Equipment                                  | 80 | Security and Investigation Activities                                                                      |
| 30 | Manufacture of Motor Vehicles and Parts                                 | 81 | Services to Buildings and Landscape Activities                                                             |
| 31 | Manufacture of Other Transport Equipment and Parts                      | 82 | Business and Office Support Activities                                                                     |
| 32 | Manufacture of Furniture                                                | 83 | Public Administration and Defence; Compulsory Social Security                                              |
| 33 | Other Manufacturing                                                     | 84 | Activities of Extraterritorial Organizations and Bodies                                                    |
| 34 | Repair and Installation of Industrial Machinery and Equipment           | 85 | Education                                                                                                  |
| 35 | Electricity and Gas Supply                                              | 86 | Human Health Activities                                                                                    |
| 36 | Water Supply                                                            | 87 | Residential Care Activities                                                                                |
| 37 | Wastewater (Sewage) Treatment                                           | 88 | Social Work Activities without Accommodation                                                               |
| 38 | Waste Collection, Treatment and Disposal Activities; Materials Recovery | 90 | Creative, Arts and Entertainment Activities                                                                |
| 39 | Remediation Activities and Other Waste Management Services              | 91 | Libraries, Archives, Museums and Other Cultural Activities                                                 |
| 41 | Construction of Buildings                                               | 92 | Gambling and Betting Activities                                                                            |
| 42 | Civil Engineering                                                       | 93 | Sports Activities and Amusement and Recreation Activities                                                  |
| 43 | Specialized Construction Activities                                     | 94 | Activities of Membership Organizations                                                                     |
| 45 | Wholesale Trade                                                         | 95 | Maintenance and Repair of Personal and Household Goods                                                     |
| 46 | Wholesale Trade                                                         | 96 | Other Personal Service Activities                                                                          |
| 47 | Retail Trade                                                            |    |                                                                                                            |
| 48 | Retail Trade                                                            |    |                                                                                                            |
| 49 | Land Transportation                                                     |    |                                                                                                            |
| 50 | Water Transportation                                                    |    |                                                                                                            |
| 51 | Air Transportation                                                      |    |                                                                                                            |

## **Appendix 4   Occupation Code**

|    |                                                                       |
|----|-----------------------------------------------------------------------|
| 01 | Servicemen                                                            |
| 11 | Legislators and Government Administrators                             |
| 12 | Directors and Chief Executives                                        |
| 13 | Production and Operations Managers                                    |
| 19 | Other Managers                                                        |
| 21 | Physical, Mathematical and Engineering Science Professionals          |
| 22 | Biological Science and Health Professionals                           |
| 23 | Teachers                                                              |
| 24 | Accountants and Business Professionals                                |
| 25 | Lawyers and Legal Professionals                                       |
| 26 | Social Science and Related Professionals                              |
| 29 | Other Professionals                                                   |
| 31 | Physical and Engineering Science Associate Professionals              |
| 32 | Biological Science and Health Associate Professionals                 |
| 33 | Teaching and Related Associate Professionals                          |
| 34 | Finance and Business Services Associate Professionals                 |
| 35 | Government Administrative Officials and Business Clerical Supervisors |
| 36 | Administrative Associate Professionals                                |
| 37 | Customs, Tax and Related Government Associate Professionals           |
| 39 | Other Associate Professionals                                         |
| 41 | Office Clerks                                                         |
| 42 | Customer Services Clerks                                              |
| 51 | Personal Services Workers                                             |
| 52 | Protective Services Workers                                           |
| 53 | Models, Salespersons and Demonstrators                                |
| 60 | Agricultural, Animal Husbandry, Forestry and Fishing Workers          |
| 71 | Extraction and Building Trades Workers                                |
| 72 | Metal, Machinery and Related Trades Workers                           |
| 73 | Precision, Handicraft, Printing and Related Trades Workers            |
| 79 | Other Craft and Related Trades Workers                                |
| 81 | Stationary-plant and Related Operators                                |
| 82 | Machine Operators                                                     |
| 83 | Assemblers                                                            |
| 84 | Drivers and Mobile-plant Operators                                    |
| 91 | Sales and Services Elementary Occupations                             |
| 92 | Production Laborers and Related Workers                               |
| 99 | Other Elementary Occupations                                          |