ELECTRONICS INDUSTRY 2012 MANPOWER SURVEY STATISTICAL REPORT

ELECTRONICS AND TELECOMMUNICATIONS TRAINING BOARD VOCATIONAL TRAINING COUNCIL

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I. INTRODUCTION

The Training Board

- Training Council (VTC) is a statutory body appointed by the Government of the Hong Kong Special Administration Region (HKSAR) to be responsible for matters pertaining to manpower training in the electronics industry. The Training Board comprises members nominated by major trade associations, professional bodies, workers unions, training and educational institutions, as well as representatives from government departments. The membership and terms of reference of the Training Board are given in Annexes A and B respectively.
- 1.2 The Training Board is required by its terms of reference to determine the manpower needs of the electronics industry and to recommend to the VTC the development of vocational education and training facilities to meet such needs.

The Manpower Survey

- 1.3 The Training Board conducted a survey in April 2012 to collect up-to-date information on the manpower situation of the electronics industry. The survey was conducted with the assistance of the Census and Statistics Department of the HKSAR Government. Follow-up of the fieldwork finished in November and data processing was completed in January 2013.
- 1.4 The following manpower statistics and information were collected from the survey:
 - (i) number of employees in various principal jobs at the time of the survey;
 - (ii) number of existing vacancies;
 - (iii) number of trainees;
 - (iv) employers' forecast of the total number of employees by April 2013:
 - (v) average monthly income of employees; and
 - (vi) employers' views on the preferred education, training mode and training period of employees.

1.5 Employers were also requested to provide other information such as the number of technologists, technicians and craftsmen who had been promoted in the past 12 months, and also those who had been deployed to work for more than 6 months outside Hong Kong during the 12 months prior to the survey, as well as the skills their needed to enhance.

Scope of Survey

1.6 The survey covered firms, relevant departments in the government and educational institutions in the following six sectors of the industry:

Sector 1: Manufacturing

Manufacturers of:

- (a) Computers and peripheral equipment (HSICs 262000, 281700, 952100);
- (b) Audio and video equipment (HSICs 264000, 953100);
- (c) Communications equipment and cables (HSICs 263000, 273100, 952200);
- (d) Magnetic and optical media, and reproduction of recorded media (HSICs 182000, 268000);
- (e) Electronic parts and components for computer and telecommunication equipment (HSIC 261100);
- (f) Electronic parts and components not elsewhere classified (HSIC 261900);
- (g) Electronic games and toys (HSIC 324500); and
- (h) Electronic industrial apparatus, and measuring testing, navigating and control equipment (HSICs 265100, 331300).

Sector 2: Trading and Services

Establishments of:

- (a) Anti-burglar system, intercommunication system, telecommunications equipment and, installation and maintenance (HSICs 432104, 432105, **432106**^);
- (b) Imports and exports of:
 - (i) Scientific and professional instruments and apparatus (HSICs 451631, 452631)*;
 - (ii) Telecommunications equipment and parts (HSICs 451611, 452611)*;
 - (iii) Electrical goods (HSICs 451452, 452452)*;
 - (iv) Computers and computer peripherals and computer software (HSICs 451601, 451602, 452601, 452602)*;

- (v) Office appliances and equipment (HSICs 451634, 452634)*;
- (vi) Electronic parts (HSICs 451613, 452613[^])*
- (c) Data processing, hosting and related activities (HSICs 620101, 620199, 620200, 620900, 631100)*; and
- (d) Other electronics engineering services not included in(a) to (c).(Appendix A)

Sector 3: Telecommunication Services

Establishments of:

- (a) Telecommunications network operation services (HSIC 611000);
- (b) Other miscellaneous telecommunications activities nowhere else classified (HSIC 619900);
- (c) Internet access services (HSIC 619100); and
- (d) Radio broadcasting, motion picture, video and television programming, and broadcasting activities (HSICs 591100, 601000, 602000).

Sector 4: Wholesale

Establishments of wholesale of:

- (a) Telecommunications equipment and parts (HSIC 460611);
- (b) Electrical goods (excluding machinery, office and telecommunications equipment and appliances) (HSIC 460452);
- (c) Computers and computer peripheral equipment (HSICs 460601, 460602); and
- (d) Office machines, appliances and equipment (excluding computer, furniture and fixtures) (HSIC 460634).

Sector 5: Design houses and Relevant Departments in Universities and the Government

- (a) Electronics design houses;
- (b) Relevant educational institutions; and
- (b) Relevant government departments.

Sector 6: Retail Shops for Electronics Products (5 large shops)

- Notes: (1) HSIC denotes Hong Kong Standard Industrial Classification
 - (2) * Excluding those establishments with an employment size below 10 as they are unlikely to have a significant number of technical staff.
 - (3) ^HSICs 432106, 451613 and 452613 are newly added.

1.7 Prior to the survey, the Census and Statistics Department recorded some 7 364 establishments in the above six sectors of the electronics industry in Hong Kong. In view of the limited resources available, a stratified random sampling method was adopted and a total of 697 samples were selected to be surveyed. The data collected were then processed and scaled up statistically to give an overall picture of the manpower situation of the industry.

Method of the Survey

- 1.8 Two weeks before the survey, relevant survey documents including questionnaire (Annex D), explanatory notes (Annex E) and list of principal jobs (Annex F) were mailed to the 697 establishments. Prior publicity was also given through the local press and relevant trade and industrial organizations to solicit employers' co-operation in the survey.
- During the survey period, interviewing officers of the Census and Statistics Department visited all 697 establishments to collect the completed questionnaires and, where required, to assist employers in completing them. All returned questionnaires were scrutinized and where necessary, cross checked with the respondents.

Response to the Survey

- 1.10 Of the 697 establishments, 402 completed the questionnaires and 38 refused to supply information. The remaining 257 establishments had either moved, closed and could not be traced, or no longer engaged in the trade. The effective response rate was 90.5%.
- During the survey, some of the establishments just provided the rough manpower information and did not give details of their employees' monthly income, number of trainees or number of vacancies at the date of survey. The reasons were that they were too busy and not willing to provide confidential information of their organizations.

The Report

- 1.12 After follow-up of the fieldwork and data processing, the Training Board compiled in February 2013 a statistical report which presented the main manpower data collected from the survey. The statistical report was subsequently mounted onto the VTC website for public information.
- 1.13 This report presents all the findings of the survey together with the Training Board's forecast of the training needs of the industry and recommendations on measures to meet these needs. In the report, the terms "employees", "workers" and "manpower" refer to the total number of persons employed in the principal jobs at the time of the survey but excluding trainees and apprentices. The term "trainees" means all persons receiving any form of training including those registered apprentices under a contract of apprenticeship.

II. SUMMARY OF SURVEY FINDINGS

Number of Persons Employed

2.1 The survey revealed that in April 2012, a total of 135 972 persons were employed in the electronics industry in Hong Kong. Of them, 58 631 were engaged in the principal jobs of electronics engineering and related disciplines. The following paragraphs present only the manpower statistics of those employees employed in the principal jobs.

Distribution of Employees by Job Level and by Sector

2.2 The distribution of employees by job level and by sector of the electronics industry is shown in Table 2.1, Figure 2.1 and Figure 2.2.

Table 2.1: Distribution of Employees by Job Level and by Sector

S		Job Level				
Sector	Technologist	Technician	Craftsman	Operative	Total	
1. Manufacturing	956	2 432	551	2 113	6 052	
2. Trading and Services	7 621	21 824	3 814	1 454	34 713	
3. Telecommunications Services	2 200	4 337	609	133	7 279	
4. Wholesale	293	3 202	274	108	3 877	
5. Design Houses and Relevant Departments in Universities and Government	904	2 333	962	95	4 294	
6. Retail Shops for Electronics Products (5 large shops)	8	2 408	-	-	2 416	
Total (Percentage of Total Manpower)	11 982 20.4%	36 536 62.3%	6 210 10.6%	3 903 6.7%	58 631 100%	

Figure 2.1: Distribution of Employees by Job Level

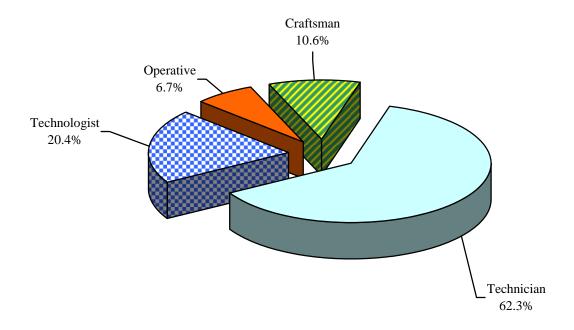
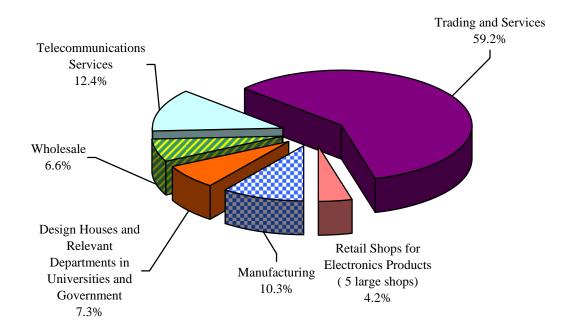


Figure 2.2: Distribution of Employees by Job Sector



Number of Trainees

2.3 At the time of the survey, there were 799 trainees in the electronics industry. Their distribution by job level is shown in Table 2.2:

Table 2.2 : <u>Distribution of Trainees by Job Level</u>

Job Level	No. of Trainees (a)	No. of Employees (b)	Percentage $\frac{(a)}{(b)} \times 100\%$
Technologist	106	11 982	0.9%
Technician	334	36 536	0.9%
Craftsman	359	6 210	5.8%
Operative	-	3 903	0%
Total	799	58 631	1.4%

Number of Vacancies at Time of Survey and Forecast Manpower by April 2013

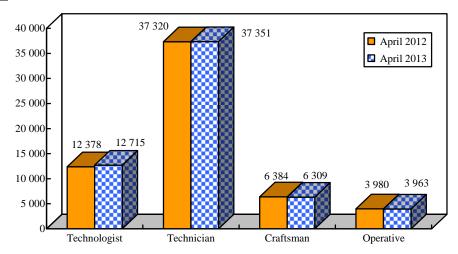
- 2.4 The total number of job vacancies was 1 431, or 2.4% of the total number employed in the electronics industry at the time of the survey. Employers also forecast that there would be 60 338 employees in the industry by April 2013, which is 1 707 employees (1.5%) more than that in April 2012.
- 2.5 A comparison of the manpower requirement at the time of survey and the employers' forecast of the number of employees by April 2013 is shown in Table 2.3 and Figure 2.3:

Table 2.3: Comparison of Manpower Requirement by April 2012 and April 2013

	At Time	of Survey (A	April 2012)	Forecast	Forecast Increase/Decrease in Manpower Requirement	
Job Level	No. of Employees	No. of Vacancies	Total Manpower Requirement	Total No. of Employees by April 2013		
Technologist	11 982	396	12 378	12 715	+2.7%	
Technician	36 536	784	37 320	37 351	+0.08%	
Craftsman	6 210	174	6 384	6 309	-1.2%	
Operative	3 903	77	3 980	3 963	-0.4	
Total	58 631	1 431	60 062	60 338	+1.5%	

Figure 2.3 : Comparison of Manpower Requirement by April 2012 and April 2013

Manpower Requirement



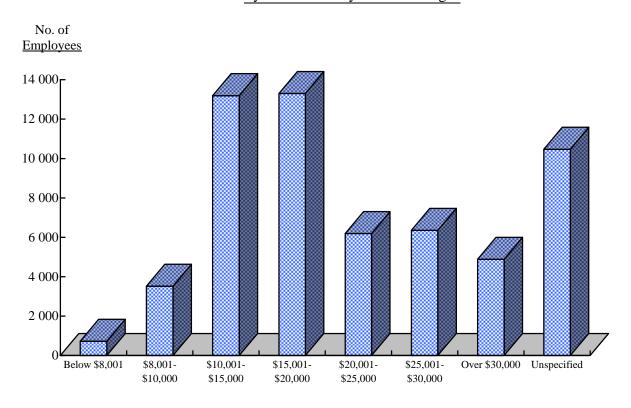
Total Monthly Income Range of Employees

2.6 The distribution of employees by total monthly income range in the electronics industry is shown in Table 2.4 and Figure 2.4:

Table 2.4 : Distribution of Employees by Total Monthly Income Range

Job Level	Below \$8,001	\$8,001- \$10,000	\$10,001- \$15,000	\$15,001- \$20,000	\$20,001- \$25,000	\$25,001- \$30,000	Over \$30,000	Un- specified
Technologist	-	-	32	1 142	1 333	3 551	3 711	2 213
Technician	54	627	9 101	11 734	4 704	2 802	1 173	6 341
Craftsman	64	1 024	3 899	427	-	-	-	796
Operative	603	1 866	160	-	154	-	-	1 120
Total	721	3 517	13 192	13 303	6 191	6 353	4 884	10 470

Figure 2.4 : Distribution of Employees by Total Monthly Income Range



Preferred Education, Mode of Training and Period of Training of Employees

2.7 The majority views of employers on the preferred education, mode of training and period of training of their technologists, technicians and craftsmen are shown in Table 2.5:

Table 2.5 : Preferred Education, Mode of Training and Period of Training of Employees

Job Level	Preferred Education	Preferred Mode of Training	Preferred Period of Training
Technologist	Degree/ Associateship or equivalent	On-the-job Training	3 – 4 years
Technician	Certificate	On-the-job Training	2 – 3 years
Craftsman	Craft Certificate	On-the-job Training	2 – 3 years

Internal Promotion

2.8 In the twelve months prior to the survey, a total of 369 employees were promoted to higher level jobs in their own companies. Their distributions in each job level are shown below:

Table 2.6: Internal Promotion

Internal Promotion	No. of Employees Promoted (a)	Total No. of Employees at the Promoted Level (b)	Percentage $\frac{(a)}{(b)} \times 100\%$
From Technician to Technologist	133	11 982	1.1%
From Craftsman to Technician	235	36 536	0.6%
From Other Levels to Craftsman	1	6 210	0.02%
Total	369	54 728	0.7%

Employees Deployed to Work Outside Hong Kong

2.9 Employers reported the following number of employees who had been deployed to work outside Hong Kong more than 6 months during the 12 months prior to the survey:

Table 2.7: No. of Employees Deployed to Work Outside Hong Kong

Job Level	No. of Employees Deployed to Work Outside Hong Kong (a)	Total No. of Employees at Same Job Level (b)	Percentage $\frac{(a)}{(b)} \times 100\%$
Technologist	633	11 982	5.3%
Technician	535	36 536	1.5%
Craftsman	1	6 210	0.02%
Total	1 169	54 728	2.1%

Skills Employees Need to Enhance

2.10 The three most important skills that employees need to enhance are shown in Table 2.8:

Table 2.8: No. of Employees by Skills Need to Enhance

	The 3 most important skills that employees need to enhance					
Job Level	Order	Code	Skills/ Knowledge/ Attributes	No. of Employees		
Technologist	1.	103	Project management	2 417		
	2.	401	Problem solving	2 366		
	3.	107	Leadership skills	2 270		
Technician	1.	404	Communication skills	10 611		
	2.	401	Problem solving	9 499		
	3.	411	Customer services skills	9 320		
Craftsman	1.	401	Problem solving	1 871		
	2.	404	Communication skills	1 855		
	3.	411	Customer services skills	1 842		

Statistical Tables

2.11 Detailed manpower statistics analysed by principal job and by sector of the electronics industry are shown in Appendices 1 to 7. The distribution of employers by their monthly income range is shown in Appendix 8 and the number of employees by skills need to enhance is shown in Appendix 9.

MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY 電子業人力統計數字 Sector 1: Manufacturing (門類一:製造)

Job Title 職稱	Number of Workers Employed 僱員人數	Number of Trainees 受訓者人數	Number of Vacancies at Date of Survey 調查期間 空缺數目	Forecast of Total Workers by April 2013 預測至 2013 年 4 月時的僱員總數		
TECHNOLOGIST LEVEL 技師級						
Electronics Engineer 電子工程師	455	9	21	474		
Electrical Engineer 電機工程師	2	-	-	2		
Mechanical Engineer 機械工程師	107	9	7	87		
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	333	-	27	358		
Chemical Engineer 化學工程師	15	-	-	15		
Product/Graphic Designer 產品/平面設計員	16	-	2	18		
System Analyst 系統分析員	28	-	-	24		
Sub-total 小 計	956	18	57	978		
TECHNICIAN LEVEL 技術員級						
Electronics Technician 電子技術員	1315	9	36	1 330		
Mechanical Technician 機械技術員	219	-	4	214		
Draughtsman 繪圖員	6	-	-	6		
Manufacturing/Quality Assurance Technician 製造/品質保證技術員	273	-	3	276		
Supervisor/Foreman/Leader 監督/管工/組長	292	-	-	292		
Programmer 程序編製員	19	-	-	19		
Web Developer/Designer 網站開發員/設計員	-	-	-	-		
Sales Technician 推銷技術員	308	-	-	308		
Sub-total 小 計	2 432	9	43	2 445		
CRAFTSMAN LEVEL 技工級		i	1	_		
Cable Jointer/Wireman 電纜接駁技工/駁線技工	2	-	-	2		
Electronics Craftsman 電子技工	405	51	9	459		
Electrician 電氣技工	58	-	-	58		
Mechanic 技工	86	-	-	86		
Sub-total 小 計	551	51	9	605		
OPERATIVE LEVEL 操作工級						
Operator 生產線操作工	2 113	-	29	2 138		
Sub-total 小 計	2 113	-	29	2 138		
GRAND TOTAL 總 計	6 052	78	138	6 166		

MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY 電子業人力統計數字 Sector 2: Trading and Services (門類二:貿易及服務)

	ı	1	NT 1 0	П . с
Job Title 職稱	Number of Workers Employed 僱員人數	Number of Trainees 受訓者人數	Number of Vacancies at Date of Survey 調查期間 空缺數目	Forecast of Total Workers by April 2013 預測至 2013 年 4 月時的僱員總數
TECHNOLOGIST LEVEL 技師級				
Electronics Engineer 電子工程師	4 383	21	95	4 475
Electrical Engineer 電機工程師	448	10	4	452
Mechanical Engineer 機械工程師	746	25	19	765
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	411	5	13	424
Chemical Engineer 化學工程師	24	-	-	24
Product/Graphic Designer 產品/平面設計員	265	-	1	266
System Analyst 系統分析員	1 344	-	22	1 362
Sub-total / 清十	7 621	61	154	7 768
TECHNICIAN LEVEL 技術員級				
Electronics Technician 電子技術員	6 680	115	276	6 960
Mechanical Technician 機械技術員	885	99	36	931
Draughtsman 繪圖員	183	-	4	185
Manufacturing/Quality Assurance Technician 製造/品質保證技術員	407	-	-	407
Supervisor/Foreman/Leader 監督/管工/組長	1 092	-	16	1 108
Programmer 程序編製員	3 487	-	26	3 516
Web Developer/Designer 網站開發員/設計員	1 127	-	65	1 192
Sales Technician 推銷技術員	7 963	-	135	8 092
Sub-total 小 計	21 824	214	558	22 391
CRAFTSMAN LEVEL 技工級				
Cable Jointer/Wireman 電纜接駁技工/駁線技工	651	-	22	669
Electronics Craftsman 電子技工	2 842	148	108	2 954
Electrician 電氣技工	175	-	10	175
Mechanic 技工	146	4	-	150
Sub-total 小 計	3 814	152	140	3 948
OPERATIVE LEVEL 操作工級				
Operator 生產線操作工	1 454	-	42	1 496
Sub-total 小 計 GRAND TOTAL 總 計	1 454 34 713	427	42 894	1 496 35 603

MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY 電子業人力統計數字

Sector 3: Telecommunications Services (門類三:電訊服務)

Job Title 職稱	Number of Workers Employed 僱員人數	Number of Trainees 受訓者人數	Number of Vacancies at Date of Survey 調查期間 空缺數目	Forecast of Total Workers by April 2013 預測至 2013 年 4 月時的僱員總數			
TECHNOLOGIST LEVEL 技師級							
Electronics Engineer 電子工程師	1 951	-	115	2 219			
Electrical Engineer 電機工程師	42	-	-	44			
Mechanical Engineer 機械工程師	8	-	2	10			
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	23	-	-	23			
Chemical Engineer 化學工程師	-	-	-	-			
Product/Graphic Designer 產品/平面設計員	24	-	-	140			
System Analyst 系統分析員	152	-	-	143			
Sub-total 小 計	2 200	-	117	2 579			
TECHNICIAN LEVEL 技術員級							
Electronics Technician 電子技術員	2 236	-	11	2 257			
Mechanical Technician 機械技術員	11	-	-	11			
Draughtsman 繪圖員	43	-	1	44			
Manufacturing/Quality Assurance Technician 製造/品質保證技術員	3	-	-	3			
Supervisor/Foreman/Leader 監督/管工/組長	168	-	-	121			
Programmer 程序編製員	246	-	-	221			
Web Developer/Designer 網站開發員/設計員	636	-	10	646			
Sales Technician 推銷技術員	994	-	-	994			
Sub-total 小 計	4 337	-	22	4 297			
CRAFTSMAN LEVEL 技工級							
Cable Jointer/Wireman 電纜接駁技工/駁線技工	20	-	-	20			
Electronics Craftsman 電子技工	402	-	2	261			
Electrician 電氣技工	186	-	-	186			
Mechanic 技工	1	-	-	1			
Sub-total /小 計	609	_	2	468			
OPERATIVE LEVEL 操作工級							
Operator 生產線操作工	133	-	6	133			
Sub-total / 計	133	-	6	133			
GRAND TOTAL 總 計	7 279	-	147	7 477			

MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY

電子業人力統計數字 Sector 4: Wholesale (門類四:批發)

Job Title 職稱	Number of Workers Employed 僱員人數 Number of Trainees		Number of Vacancies at Date of Survey 調查期間	Forecast of Total Workers by April 2013 預測至 2013 年	
	VE PRIVING		空缺數目	4月時的僱員總數	
TECHNOLOGIST LEVEL 技師級					
Electronics Engineer	227	-	42	369	
電子工程師					
Electrical Engineer 電機工程師	-	-	-	-	
Mechanical Engineer 機械工程師	-	-	-	-	
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	20	-	-	20	
Chemical Engineer 化學工程師	-	-	-	-	
Product/Graphic Designer 產品/平面設計員	10	-	-	10	
ECITION 中国政計員 System Analyst 系統分析員	36	-	-	36	
Sub-total 小 計	293	_	42	435	
TECHNICIAN LEVEL 技術員級	2,5		1 .2	1.55	
Electronics Technician	872	2	28	902	
電子技術員	072	2	20	702	
Mechanical Technician	6	-	-	6	
機械技術員					
Draughtsman 繪圖員	-	-	-	-	
Manufacturing/Quality Assurance Technician 製造/品質保證技術員	-	-	-	-	
Supervisor/Foreman/Leader 監督/管工/組長	1	-	-	1	
Programmer 程序編製員	98	-	11	109	
Web Developer/Designer 網站開發員/設計員	26	-	-	26	
Sales Technician 推銷技術員	2 199	-	86	2 285	
Sub-total 小 計	3 202	2	125	3 329	
CRAFTSMAN LEVEL 技工級	1	•	4	!	
Cable Jointer/Wireman 電纜接駁技工/駁線技工	25	-	-	25	
Electronics Craftsman 電子技工	235	-	22	257	
Electrician 電氣技工	14	-	-	14	
Mechanic 技工	-	-	-	-	
Sub-total 小 計	274	-	22	296	
OPERATIVE LEVEL 操作工級	ı	l	1	l	
Operator 生產線操作工	108	-	-	108	
Sub-total 小 計	108	-	-	108	
GRAND TOTAL 總 計	3 877	2	189	4 168	

$\frac{\text{MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY}}{ 電子業人力統計數字}$

Sector 5: Design Houses, Relevant Departments in Educational Institutions and Government (門類五:設計公司、教育院校及政府有關部門)

V 1 00 1	Number of	Number of	Number of Vacancies at	Forecast of Total Workers					
Job Title 職稱	Workers Employed	Trainees 受訓者人數	Date of Survey 調查期間	by April 2013 預測至 2013 年					
	僱員人數	文明中日八致	空缺數目	4月時的僱員總數					
TECHNOLOGIST LEVEL 技師級									
Electronics Engineer	564	5	22	592					
電子工程師									
Electrical Engineer	229	19	-	240					
電機工程師 Mechanical Engineer	13	_	_	13					
機械工程師	13	_	_	13					
Manufacturing/Quality Assurance Engineer	28	-	3	31					
製造/品質保證工程師									
Chemical Engineer	12	-	-	12					
化學工程師									
Product/Graphic Designer	-	-	1	1					
產品/平面設計員 System Analyst	58	3		58					
系統分析員	36	3	-	38					
Sub-total 小 計	904	27	26	947					
TECHNICIAN LEVEL 技術員級	I .		Į.						
Electronics Technician	972	18	25	1 024					
電子技術員									
Mechanical Technician	176	87	-	196					
機械技術員	7			7					
Draughtsman 繪圖員	/	-	-	/					
Manufacturing/Quality Assurance Technician	20	_	2	22					
製造/品質保證技術員									
Supervisor/Foreman/Leader	1 016	-	-	1 073					
監督/管工/組長	1.12			1.15					
Programmer 程序編製員	142	-	3	145					
性月/姍殺貝 Web Developer/Designer	_	_	_	_					
網站開發員/設計員									
Sales Technician	-	-	-	-					
推銷技術員									
Sub-total 小 計	2 333	105	30	2 467					
CRAFTSMAN LEVEL 技工級	T	1	1						
Cable Jointer/Wireman	-	-	-	-					
電纜接駁技工/駁線技工	106			101					
Electronics Craftsman 電子技工	196	-	-	191					
Electrician	353	78	_	368					
電氣技工				- 70					
Mechanic	413	78	1	433					
技工	0.52	1.7.5		002					
Sub-total /\ \frac{\fignet{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac}\frac{\frac{\frac}\frac{\frac{	962	156	1	992					
OPERATIVE LEVEL 操作工級	0.5		1	00					
Operator 生產線操作工	95	-	-	88					
工生統派下工 Sub-total 小 計	95	_	_	88					
GRAND TOTAL 總 計	4 294	288	57	4 494					
	•	•	•						

MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY

電子業人力統計數字
Sector 6: Retail Shops for Electronics Products (5 large shops)
(門類六:零售-9 間大型電子產品零售公司)

	Number of		Number of	Forecast of				
Job Title	Workers	Number of	Vacancies at	Total Workers				
職稱	Employed	Trainees	Date of Survey	by April 2013				
49411.3	僱員人數	受訓者人數	調查期間	預測至 2013 年				
	VE 2 4 7 4 2 2 4		空缺數目	4月時的僱員總數				
TECHNOLOGIST LEVEL 技師級								
Electronics Engineer	6	-	-	6				
電子工程師								
Electrical Engineer	-	-	-	-				
電機工程師								
Mechanical Engineer	-	-	-	-				
機械工程師								
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	-	-	-	-				
Chemical Engineer	-	-	-	-				
化學工程師								
Product/Graphic Designer	-	-	-	-				
產品/平面設計員	_			_				
System Analyst	2	-	-	2				
系統分析員	0			0				
Sub-total 小 計	8	-	-	8				
TECHNICIAN LEVEL 技術員級		_						
Electronics Technician	52	4	-	56				
電子技術員								
Mechanical Technician 機械技術員	-	-	-	-				
Draughtsman	-	-	-	-				
繪圖員								
Manufacturing/Quality Assurance Technician	-	-	-	-				
製造/品質保證技術員								
Supervisor/Foreman/Leader 監督/管工/組長	-	-	-	-				
Programmer	-	-	-	-				
程序編製員								
Web Developer/Designer	4	-	-	4				
網站開發員/設計員				2.2.2				
Sales Technician 推銷技術員	2 352	-	6	2 362				
性賴孜州貝 Sub-total 小 計	2 408	4	6	2 422				
	2 400	4	Ü	2 422				
	1	<u> </u>						
Cable Jointer/Wireman 電纜接駁技工/駁線技工	-	-	-	-				
电视按数权工/ 駁線权工 Electronics Craftsman	_	_	-	_				
電子技工	_	_	-	-				
Electrician	_	_	_	_				
電氣技工								
Mechanic	-	-	-	-				
技工								
Sub-total 小 計	-	-	-	-				
OPERATIVE LEVEL 操作工級								
Operator	-	-	-	-				
生產線操作工								
Sub-total 小 計	-	-	=	-				
GRAND TOTAL 總 計	2 416	4	6	2 430				
	•	•						

MANPOWER STATISTICS OF THE ELECTRONICS INDUSTRY (ALL SECTORS) 電子業人力統計數字(各門類)

	T		T						
Job Title 職稱	Number of Workers Employed 僱員人數	Number of Trainees 受訓者人數	Number of Vacancies at Date of Survey 調查期間 空缺數目	Forecast of Total Workers by April 2013 預測至 2013 年 4 月時的僱員總數					
TECHNOLOGIST LEVEL 技師級									
Electronics Engineer 電子工程師	7 586	35	295	8 135					
Electrical Engineer 電機工程師	721	29	4	738					
Mechanical Engineer 機械工程師	874	34	28	875					
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	815	5	43	856					
Chemical Engineer 化學工程師	51	-	-	51					
Product/Graphic Designer 產品/平面設計員	315	-	4	435					
System Analyst 系統分析員	1 620	3	22	1 625					
Sub-total /小 計	11 982	106	396	12 715					
TECHNICIAN LEVEL 技術員級									
Electronics Technician 電子技術員	12 127	148	376	12 529					
Mechanical Technician 機械技術員	1 297	186	40	1 358					
Draughtsman 繪圖員	239	-	5	242					
Manufacturing/Quality Assurance Technician 製造/品質保證技術員	703	-	5	708					
Supervisor/Foreman/Leader 監督/管工/組長	2 569	-	16	2 595					
Programmer 程序編製員	3 992	-	40	4 010					
Web Developer/Designer 網站開發員/設計員	1 793	-	75	1 868					
Sales Technician 推銷技術員	13 816	-	227	14 041					
Sub-total 小 計	36 536	334	784	37 351					
CRAFTSMAN LEVEL 技工級									
Cable Jointer/Wireman 電纜接駁技工/駁線技工	698	-	22	716					
Electronics Craftsman 電子技工	4 080	199	141	4 122					
Electrician 電氣技工	786	78	10	801					
Mechanic 技工	646	82	1	670					
Sub-total 小 計	6 210	359	174	6 309					
OPERATIVE LEVEL 操作工級									
Operator 生產線操作工	3 903	-	77	3 963					
Sub-total 小 計	3 903	-	77	3 963					
GRAND TOTAL 總 計	58 631	799	1 431	60 338					

DISTRIBUTION OF EMPLOYEES BY MONTHLY INCOME RANGE (ALL SECTORS) 根據每月總收入幅度的僱員人數分布情況(各門類)

	1		1	ı	1	1	1	
Job Title 職稱	Unspecified 未有說明	Below \$8,001 以下	\$8,001 - \$10,000	\$10,001 - \$15,000	\$15,001 - \$20,000	\$20,001 - \$25,000	\$25,001 - \$30,000	Over \$30,000 以上
TECHNOLOGIST LEV	/EL 技師	級	•					
Electronics Engineer 電子工程師	1 385	-	-	11	697	848	2 634	2 011
Electrical Engineer 電機工程師	14	-	-	-	8	122	18	559
Mechanical Engineer 機械工程師	85	-	-	-	59	242	50	438
Manufacturing/Quality Assurance Engineer 製造/品質保證工程師	213	-	-	7	164	40	141	250
Chemical Engineer 化學工程師	11	-	-	-	4	6	-	30
Product/Graphic Designer 產品/平面設計員	71	-	-	14	126	30	-	74
System Analyst 系統分析員	434	-	-	-	84	45	708	349
Sub-total 小 計	2 213	-	-	32	1 142	1 333	3 551	3 711
TECHNICIAN LEVEL	技術員緣	及 <u> </u>						
Electronics Technician 電子技術員	1 686	46	399	3 173	2 439	3 048	1 161	175
Mechanical Technician 機械技術員	150	8	-	512	365	5	245	12
Draughtsman 繪圖員	134	-	2	27	60	12	-	4
Manufacturing/Quality Assurance Technician 製造/品質保證技術員	258	-	16	363	66	-	-	-
Supervisor/Foreman/Leader 監督/管工/組長	271	-	-	171	1 249	158	719	1
Programmer 程序編製員	536	-	-	235	2 219	507	175	320
Web Developer/Designer 網站開發員/設計員	642	-	-	401	710	32	8	-
Sales Technician 推銷技術員	2 664	-	210	4 219	4 626	942	494	661
Sub-total 小計	6 341	54	627	9 101	11 734	4 704	2 802	1 173
CRAFTSMAN LEVEL			100	264	1 2	I		
Cable Jointer/Wireman 電纜接駁技工/駁線技工	242	-	190	264	2	-	-	-
Electronics Craftsman 電子技工	490	64	738	2 594	194	-	-	-
Electrician 電氣技工	24	-	91	558	113	-	-	-
Mechanic 技工	40	-	5	483	118	-	-	-
Sub-total 小 計	796	64	1 024	3 899	427	-	-	-
OPERATIVE LEVEL	操作工級	662	1.655	1.0	1	1.7.	, ,	
Operator 生產線操作工	1 120	603	1 866	160	-	154	-	-
Sub-total 小 計	1 120	603	1 866	160	-	154	-	-
GRAND TOTAL 總 計	10 470	721	3 517	13 192	13 303	6 191	6 353	4 884

SKILLS EMPLOYEES NEED TO ENHANCE 僱員需要加強培訓的技能

	Mo. of Employees 「僱員人數						
Skills 技能	Technologist Technician		Craftsman	All			
Management Skills 管理技能	技師	技術員	技工	總數			
101 Production and engineering management	1 453	128	-	1 581			
工業生產及工程管理 102 Marketing management	150	884	-	1 034			
經銷管理 103 Project management 項目管理	2 417	380	-	2 797			
項目管理 104 Quality management 品質管理	1 903	575	10	2 488			
品質管理 105 Purchasing management 採購管理	12	6	-	18			
106 People management 人事管理	981	139	-	1 120			
107 Leadership skills 領導能力	2 270	846	-	3 116			
China-related Knowledge and World Vision	有關中國的知識及	2世界視野					
201 Social and economic development in China 在中國內地的社會和經濟發展	-	552	-	552			
202 Laws and regulatory restrictions to China 進入中國市場的法律和規條限制 203 Trade practices in the mainland of China	34	22	-	56			
203 Trade practices in the mainland of China 在中國內地的營商常規 204 Cross-cultural knowledge	200	100	-	300			
跨文化的知識	12	-	-	12			
205 World vision 世界視野	215	27	-	242			
Language Skills 語文能力	110	1 407	165	1.602			
301 Spoken English 英語會話 302 Written English	110	1 407	165	1 682			
英文書寫能力	477	2 354	61	2 892			
英文書寫能力 303 Putonghua 普通話	245	2 287	140	2 672			
304 Written Chinese 中文書寫能力	-	8	146	154			
Interpersonal and Intrapersonal Skills for the Wor		的人際及個人才能					
401 Problem solving 解決問題	2 366	9 499	1 871	13 736			
402 Creativity 創意力	614	2 700	74	3 388			
403 Critical thinking 批判思考能力	146	868	21	1 035			
404 Communication skills 溝通技巧	1 056	10 611	1 855	13 522			
405 Team building 團隊建立	988	6 737	1 444	9 169			
406 Time management skills 時間管理技巧	856	1 725	86	2 667			
407 Optimism/Positive 樂觀/積極	112	3 365	327	3 804			
408 Self-esteem 自尊 400 Paraguarana	-	- 2.162	74	74			
409 Perseverance 毅力	-	2 162	516	2 678			
410 Change management skills 變革管理技巧 411 Customer services skills	272	589	-	861			
411 Customer services skills 客戶服務技巧 412 Numerical skills	599	9 320	1 842	11 761			
#12 Numerical skills 數學運用技巧 413 Ability to learn/adapt new skills/knowledge	-	4	-	4			
學習或適應新科技、新知識的能力	1 292	7 525	864	9 681			
Others 其他 699 Others	221	975	367	1 563			
o// Outeld	221	713	307	1 505			