

MANPOWER STATISTICAL REPORT
OF THE
2013 SUPPLEMENTARY SURVEY ON
E&M WORKERS WORKING IN CONSTRUCTION SITES

Manpower Statistical Report of The 2013 Supplementary Survey on E&M Workers Working in Construction Sites

Introduction

In the second quarter of 2013, the Electrical and Mechanical Services Training Board conducted its eighth supplementary manpower survey to collect up-to-date manpower data on electrical and mechanical (E&M) workers working in construction sites. The collected data facilitated more comprehensive analysis of the manpower situation of the electrical and mechanical services industry.

Scope of the Survey

2. For the sake of manpower data consistency, the supplementary survey was carried out in conjunction with the 2013 manpower survey of the building and civil engineering industry. The supplementary survey covered all 1 030 building sites and 487 civil engineering and other sites recorded by the Census and Statistics Department (C&SD).

Number of Workers Employed

3. The survey revealed that in April 2013, a total of 6 911 workers of E&M trades worked in construction sites. Of the 6 911 workers, 5 926 workers (85.7%) were employed in 209 building sites and 985 workers (14.3%) worked in 99 civil engineering and other sites.

4. At the time of survey, respondents reported only 2 trainees in construction sites, representing 0.03% of the total workforce.

5. The distribution of workers and trainees by job level is as follow:

Job Level	Number of Workers Working in Construction Sites	Percentage of Total Number of Workers	No. of Trainees in Construction Sites	Percentage of Workers at the Same Job Level
Professional/Technologist	361	5%	0	-
Technician	529	8%	1	0.19%
Tradesman/Craftsman	5 960	86%	1	0.02%
Semi-skilled/General Worker	61	1%	0	-
Total:	6 911	100%	2	0.03%

6. The distribution of workers and trainees by principal jobs are at
 ---- Appendix 1.

Monthly Income Range

7. The distribution of workers by monthly income range of each
 ---- E&M principal job in construction sites is shown in Appendix 2.

**ELECTRICAL & MECHANICAL WORKERS
WORKING IN CONSTRUCTION SITES**
在建築地盤工作的機電工程從業員

MANPOWER STATISTICS
人力狀況

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數
PROFESSIONAL/TECHNOLOGIST LEVEL 專業人士／技師級		
Building Services Engineer 屋宇設備工程師	45	-
Electrical Engineer 電機工程師	169	-
Refrigeration/Air-conditioning/ Ventilation Engineer 冷凝／空氣調節／通風設備工程師	5	-
Mechanical Engineer 機械工程師	76	-
Plumbing and Drainage Engineer 水喉及渠務工程師	2	-
Lift/Escalator Engineer 升降機／自動梯工程師	5	-
Fire Services Engineer 消防設備工程師	18	-
Electronics Engineer 電子工程師	20	-
Control and Instrumentation Engineer 控制及儀器工程師	-	-
Engineering Manager 工程經理	6	-
Safety Officer 安全主任	15	-
Sub-total 小計	361	-
TECHNICIAN LEVEL 技術員級		
Supervisor 監督	22	-
Building Services Technician 屋宇設備技術員	52	1

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數
Draughtsman 繪圖員	-	-
Electrical Engineering Technician 電機工程技術員	199	-
Refrigeration/Air-conditioning/ Ventilation Technician 冷凝/空氣調節/通風設備技術員	20	-
Mechanical Engineering Technician 機械工程技術員	53	-
Lift/Escalator Technician 升降機/自動梯技術員	32	-
Fire Services Technician 消防設備技術員	31	-
Electrical Instrument and Meter Technician 電工儀器技術員	20	-
Electronics Technician 電子技術員	40	-
Telecommunication Technician 電訊技術員	42	-
Assistant Safety Officer/ Safety Supervisor 助理安全主任/安全督導員	18	-
Sub-total 小計	529	1
TRADESMAN/CRAFTSMAN LEVEL 技工級		
Foreman/Chargehand 管工/領工	64	-
Building Services Mechanic 屋宇設備技工	128	-
Electrician/Electrical Fitter 電工/電氣打磨裝配工	1 804	-
Control Panel Assembler 控制板裝配工	6	-
Electrical Wireman 電氣佈線工	792	1
Refrigeration/ Air-conditioning/ Ventilation Mechanic 空調製冷設備技工	581	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) 空調製冷設備技工(電力控制)	48	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Unitary System) 空調製冷設備技工(獨立系統)	453	-

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Air System)/ Sheet Metal Worker 空調製冷設備技工(送風系統)/ 薄片金屬構造工	331	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Thermal Insulation)/ Thermal Insulation Craftsman 空調製冷設備技工(保溫)/ 保溫技工	26	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) 空調製冷設備技工(水系統)	92	-
Plumber and Pipe Fitter 喉管工	195	-
Mechanical Fitter/Machinist 機械打磨裝配工/ 機床工	35	-
Lift Mechanic 升降機技工	233	-
Escalator Mechanic 自動梯技工	81	-
Fire Services Mechanic 消防設備技工	535	-
Fire Services Electrical Fitter 消防電氣裝配工	150	-
Fire Services Mechanical Fitter 消防機械裝配工	114	-
Fire Service Portable Equipment Fitter 手提消防設備裝配工	-	-
Cable Jointer (Power) 強電流電纜接駁技工	4	-
Overhead Linesman 架空電線技工	6	-
Electrical Appliances Service Mechanic 電器用具維修技工	66	-
Welder 焊接工	63	-
AV and RF Mechanic 影音及射頻技工	3	-
Building Security System Mechanic 屋宇防盜系統技工	54	-
Communication System Mechanic 電訊系統裝配工	45	-
Gas Installer 氣體裝置技工	51	-
Sub-total 小計	5 960	1

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數
SEMI-SKILLED WORKER/GENERAL WORKER LEVEL 半技術工人／普通工人		
Labourer 雜工	47	-
Semi-skilled Worker 半技術工人	14	-
Sub-total 小計	61	-
GRAND TOTAL 總計	6 911	2

ELECTRICAL AND MECHANICAL WORKERS
WORKING IN CONSTRUCTION SITES
在建築地盤工作的機電工程從業員

DISTRIBUTION OF EMPLOYEES BY MONTHLY INCOME RANGE
根據每月收入幅度僱員人數分佈情況

Job Title 職稱	\$9,001 -	\$12,001 -	\$15,001 -	\$18,001 -	\$25,001 -	\$35,001 -	\$45,001 -	Over \$60,000	Un- specified 未有說明
	\$12,000	\$15,000	\$18,000	\$25,000	\$35,000	\$45,000	\$60,000	以上	
PROFESSIONAL/TECHNOLOGIST LEVEL 專業人士/技師級									
Building Services Engineer 屋宇設備工程師	-	-	-	15	4	12	-	3	11
Electrical Engineer 電機工程師	-	-	1	14	7	80	11	-	56
Refrigeration/ Air-conditioning/ Ventilation Engineer 冷凝/空氣調節/ 通風設備工程師	-	-	-	-	-	5	-	-	-
Mechanical Engineer 機械工程師	-	-	-	1	12	49	-	-	14
Plumbing and Drainage Engineer 水喉及渠務工程師	-	-	-	-	-	-	-	-	2
Lift/Escalator Engineer 升降機/自動梯工程師	-	-	-	-	-	5	-	-	-
Fire Services Engineer 消防設備工程師	-	-	-	-	-	18	-	-	-
Electronics Engineer 電子工程師	-	-	-	-	-	20	-	-	-
Control and Instrumentation Engineer 控制及儀器工程師	-	-	-	-	-	-	-	-	-
Engineering Manager 工程經理	-	-	-	-	3	-	-	3	-
Safety Officer 安全主任	-	-	-	-	1	11	2	-	1
Sub-total 小計	-	-	1	30	27	200	13	6	84
TECHNICIAN LEVEL 技術員級									
Supervisor 監督	-	-	-	4	14	-	-	-	4
Building Services Technician 屋宇設備技術員	-	-	-	17	17	1	-	3	14
Draughtsman 繪圖員	-	-	-	-	-	-	-	-	-
Electrical Engineering Technician 電機工程技術員	2	-	2	74	86	1	-	-	34

Job Title 職稱	\$9,001 -	\$12,001 -	\$15,001 -	\$18,001 -	\$25,001 -	\$35,001 -	\$45,001 -	Over \$60,000	Un- specified 未有說明
	\$12,000	\$15,000	\$18,000	\$25,000	\$35,000	\$45,000	\$60,000	以上	
Refrigeration/ Air-conditioning/ Ventilation Technician 冷凝／空氣調節／ 通風設備技術員	-	-	-	1	-	15	-	-	4
Mechanical Engineering Technician 機械工程技術員	2	-	4	21	25	-	-	-	1
Lift/Escalator Technician 升降機／自動梯技術員	-	-	-	6	20	-	-	-	6
Fire Services Technician 消防設備技術員	-	-	4	-	20	-	-	-	7
Electrical Instrument and Meter Technician 電工儀器技術員	-	-	-	-	-	20	-	-	-
Electronics Technician 電子技術員	-	-	-	-	-	40	-	-	-
Telecommunication Technician 電訊技術員	-	-	-	33	5	-	-	-	4
Assistant Safety Officer/ Safety Supervisor 助理安全主任／ 安全監督	-	-	-	5	12	-	-	-	1
Sub-total 小計	4	-	10	161	199	77	-	3	75
TRADESMAN/CRAFTSMAN LEVEL 技工級									
Foreman/Chargehand 管工／領工	-	-	-	17	13	-	-	-	34
Building Services Mechanic 屋宇設備技工	-	-	-	3	13	-	-	-	112
Electrician/Electrical Fitter 電工／電氣打磨裝配工	7	51	259	368	16	-	-	-	1 103
Control Panel Assembler 控制板裝配工	-	-	4	2	-	-	-	-	-
Electrical Wireman 電氣佈線工	-	48	101	66	5	-	-	-	572
Refrigeration/ Air-conditioning/ Ventilation Mechanic 空調製冷設備技工	2	43	47	50	4	-	-	-	435
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) 空調製冷設備技工 (電力控制)	-	9	23	7	-	-	-	-	9
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Unitary Control) 空調製冷設備技工 (獨立系統)	-	3	214	30	-	-	-	-	206

Job Title 職稱	\$9,001 -\$12,000	\$12,001 -\$15,000	\$15,001 -\$18,000	\$18,001 -\$25,000	\$25,001 -\$35,000	\$35,001 -\$45,000	\$45,001 -\$60,000	Over \$60,000 以上	Un- specified 未有說明
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Air System)/Sheet Metal Worker 空調製冷設備技工 (送風系統)/薄片金屬構造工	-	11	36	63	-	-	-	-	221
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Thermal Insulation)/Thermal Insulation Mechanic 空調製冷設備技工(保溫)/保 溫技工	-	-	11	3	-	-	-	-	12
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) 空調製冷設備技工 (水系統)	-	-	-	28	19	-	-	-	45
Plumber and Pipe Fitter 喉管工	-	5	48	37	-	-	-	-	105
Mechanical Fitter/ Machinist 機械打磨裝配工/ 機床工	-	8	2	10	-	-	-	-	15
Lift Mechanic 升降機技工	-	20	28	31	-	-	-	-	154
Escalator Mechanic 自動梯技工	-	-	33	18	30	-	-	-	-
Fire Services Mechanic 消防設備技工	-	5	41	91	-	-	-	-	398
Fire Services Electrical Fitter 消防電氣裝配工	-	-	31	23	-	-	-	-	96
Fire Services Mechanical Fitter 消防機械裝配工	-	-	27	14	3	-	-	-	70
Fire Service Portable Equipment Fitter 手提消防設備裝配工	-	-	-	-	-	-	-	-	-
Cable Jointer (Power) 強電流電纜接駁技工	-	-	4	-	-	-	-	-	-
Overhead Linesman 架空電線技工	-	-	-	-	-	-	-	-	6
Electrical Appliances Service Mechanic 電器用具服務技工	-	-	-	-	-	-	-	-	66
Welder 焊接工	-	-	2	4	-	-	-	-	57
AV and RF Mechanic 影音及射頻技工	-	-	3	-	-	-	-	-	-
Building Security System Mechanic 屋宇防盜系統技工	-	-	2	7	-	-	-	-	45

Job Title 職稱	\$9,001 -\$12,000	\$12,001 -\$15,000	\$15,001 -\$18,000	\$18,001 -\$25,000	\$25,001 -\$35,000	\$35,001 -\$45,000	\$45,001 -\$60,000	Over \$60,000 以上	Un- specified 未有說明
Communication System Mechanic 電訊系統裝配工	-	6	10	24	-	-	-	-	5
Gas Installer 氣體裝置技工	-	-	-	3	-	-	-	-	48
Sub-total 小計	9	209	926	899	103	-	-	-	3 814
SEMI-SKILLED WORKER/GENERAL WORKER LEVEL 半技術工人／普通工人									
Labourer 雜工	2	-	45	-	-	-	-	-	-
Semi-skilled Worker 半技術工人	-	-	-	-	-	-	-	-	14
Sub-total 小計	2	-	45	-	-	-	-	-	14
GRAND TOTAL 總計	15	209	982	1 090	329	277	13	9	3 987