

MANPOWER STATISTICAL REPORT
OF THE
2011 SUPPLEMENTARY SURVEY ON
E&M WORKERS WORKING IN CONSTRUCTION SITES

Manpower Statistical Report of The 2011 Supplementary Survey on E&M Workers Working in Construction Sites

Introduction

In March/April 2011, the Electrical and Mechanical Services Training Board conducted its seventh 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 2011 manpower survey of the building and civil engineering industry in March/April 2011. The supplementary survey covered all 847 building sites and 420 civil engineering and other sites recorded by the Census and Statistics Department (C&SD).

Number of Workers Employed

3. The survey revealed that in March/April 2011, a total of 6 585 E&M workers of electrical/mechanical engineering and related disciplines principal jobs were working in the construction sites. Of the 6 585 E&M workers, 5 789 workers (87.9%) were employed in building sites and 796(12.1%) workers were working in civil engineering and other sites.

4. At the time of the survey, there were 5 trainees under various forms of training in construction sites, representing 0.08% of the total workforce. No vacancy of E&M trades was reported by employers during the survey.

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	240	3.6%	4	1.7%
Technician	395	6.0%	1	0.3%
Tradesman/Craftsman	5 706	86.7%	-	-
Semi-skilled/General Worker	244	3.7%	-	-
Total:	6 585	100%	5	0.08%

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	No. of Vacancies at Date of Survey 調查期間 空缺數目
PROFESSIONAL/TECHNOLOGIST LEVEL 專業人士／技師級			
Building Services Engineer 屋宇設備工程師	47	-	-
Electrical Engineer 電機工程師	80	2	-
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	41	2	-
Plumbing and Drainage Engineer 水喉及渠務工程師	3	-	-
Lift/Escalator Engineer 升降機／自動梯工程師	4	-	-
Fire Services Engineer 消防設備工程師	7	-	-
Electronics Engineer 電子工程師	19	-	-
Control and Instrumentation Engineer 控制及儀器工程師	1	-	-
Engineering Manager 工程經理	13	-	-
Safety Officer 安全主任	20	-	-
Sub-total 小計	240	4	-

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數	No. of Vacancies at Date of Survey 調查期間 空缺數目
TECHNICIAN LEVEL 技術員級			
Supervisor 監督	21	-	-
Building Services Technician 屋宇設備技術員	41	-	-
Draughtsman 繪圖員	14	-	-
Electrical Engineering Technician 電機工程技術員	84	1	-
Refrigeration/Air-conditioning/ Ventilation Technician 冷凝/空氣調節/通風設備技術員	22	-	-
Mechanical Engineering Technician 機械工程技術員	35	-	-
Lift/Escalator Technician 升降機/自動梯技術員	35	-	-
Fire Services Technician 消防設備技術員	23	-	-
Electrical Instrument and Meter Technician 電工儀器技術員	18	-	-
Electronics Technician 電子技術員	37	-	-
Telecommunication Technician 電訊技術員	45	-	-
Assistant Safety Officer/ Safety Supervisor 助理安全主任/安全督導員	20	-	-
Sub-total 小計	395	1	-
TRADESMAN/CRAFTSMAN LEVEL (Continued) 技工級			
Foreman/Chargehand 管工/領工	71	-	-
Building Services Mechanic 屋宇設備技工	62	-	-
Electrician/Electrical Fitter 電工/電氣打磨裝配工	1 306	-	-

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數	No. of Vacancies at Date of Survey 調查期間 空缺數目
TRADESMAN/CRAFTSMAN LEVEL (Continued) 技工級 (續)			
Control Panel Assembler 控制板裝配工	45	-	-
Electrical Wireman 電氣佈線工	975	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) 空調製冷設備技工(電力控制)	445	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Unitary System) 空調製冷設備技工(獨立系統)	516	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Air System)/ Sheet Metal Worker 空調製冷設備技工(送風系統)/ 簿片金屬構造工	347	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Thermal Insulation)/ Thermal Insulation Craftsman 空調製冷設備技工(保溫)/ 保溫技工	67	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) 空調製冷設備技工(水系統)	197	-	-
Plumber and Pipe Fitter 喉管工	293	-	-
Mechanical Fitter/Machinist 機械打磨裝配工/機床工	66	-	-
Lift Mechanic 升降機技工	221	-	-
Escalator Mechanic 自動梯技工	81	-	-
Fire Services Electrical Fitter 消防電氣裝配工	283	-	-
Fire Services Mechanical Fitter 消防機械裝配工	396	-	-
Cable Jointer (Power) 強電流電纜接駁技工	8	-	-

Job Title 職稱	No. of Employees 僱員人數	No. of Trainees 受訓者人數	No. of Vacancies at Date of Survey 調查期間 空缺數目
TRADESMAN/CRAFTSMAN LEVEL (Continued) 技工級 (續)			
Electrical Appliances Service Mechanic 電器用具維修技工	74	-	-
Welder 焊接工	104	-	-
AV and RF Mechanic 影音及射頻技工	3	-	-
Building Security System Mechanic 屋宇防盜系統技工	50	-	-
Communication System Mechanic 電訊系統裝配工	47	-	-
Gas Installer 氣體裝置技工	49	-	-
Sub-total 小計	5 706	-	-
SEMI-SKILLED WORKER/GENERAL WORKER LEVEL 半技術工人／普通工人			
Labourer 雜工	208	-	-
Semi-skilled Worker 半技術工人	36	-	-
Sub-total 小計	244	-	-
GRAND TOTAL 總計	6 585	5	-

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	Under \$6,001 以下	\$6,001- \$9,000	\$9,001- \$12,000	\$12,001- \$15,000	\$15,001- \$18,000	\$18,001- \$25,000	\$25,001- \$35,000	Over \$35,000 以上	Unspecified 未有說明
PROFESSIONAL/TECHNOLOGIST LEVEL 專業人士／技師級									
Building Services Engineer 屋宇設備工程師	-	-	-	-	1	1	14	2	29
Electrical Engineer 電機工程師	-	-	-	-	-	2	25	8	45
Refrigeration/ Air-conditioning/ Ventilation Engineer 冷凝／空氣調節／通風 設備工程師	-	-	-	-	-	1	3	-	1
Mechanical Engineer 機械工程師	-	-	-	-	-	-	17	1	23
Plumbing and Drainage Engineer 水喉及渠務工程師	-	-	-	-	-	-	2	-	1
Lift/Escalator Engineer 升降機／自動梯工程師	-	-	-	-	-	-	-	1	3
Fire Services Engineer 消防設備工程師	-	-	-	-	-	-	4	-	3
Electronics Engineer 電子工程師	-	-	-	-	1	-	5	-	13
Control and Instrumentation Engineer 控制及儀器工程師	-	-	-	-	-	-	1	-	-
Engineering Manager 工程經理	-	-	-	-	-	-	4	3	6
Safety Officer 安全主任	-	-	-	-	1	1	4	5	9
Sub-total 小計	-	-	-	-	3	5	79	20	133
TECHNICIAN LEVEL 技術員級									
Supervisor 監督	-	-	-	2	-	4	5	2	8
Building Services Technician 屋宇設備技術員	-	-	-	-	14	10	-	-	17
Draughtsman 繪圖員	-	2	-	5	1	5	-	-	1
Electrical Engineering Technician 電機工程技術員	-	-	11	6	6	12	1	-	48

Job Title 職稱	Under \$6,001 以下	\$6,001- \$9,000	\$9,001- \$12,000	\$12,001- \$15,000	\$15,001- \$18,000	\$18,001- \$25,000	\$25,001- \$35,000	Over \$35,000 以上	Unspecified 未有說明
TECHNICIAN LEVEL (Continued) 技術員級 (續)									
Refrigeration/ Air-conditioning/ Ventilation Technician 冷凝／空氣調節／ 通風設備技術員	-	-	-	-	6	-	-	-	16
Mechanical Engineering Technician 機械工程技術員	-	-	5	-	-	22	1	-	7
Lift/Escalator Technician 升降機／自動梯技術員	-	-	1	13	1	-	-	-	20
Fire Services Technician 消防設備技術員	-	-	3	-	-	-	-	-	20
Electrical Instrument and Meter Technician 電工儀器技術員	-	-	-	10	8	-	-	-	-
Electronics Technician 電子技術員	-	-	-	15	6	7	-	-	9
Telecommunication Technician 電訊技術員	-	4	-	38	-	-	-	-	3
Assistant Safety Officer/Safety Supervisor 助理安全主任/ 安全督導員	-	-	-	2	1	12	4	-	1
Sub-total 小計	-	6	20	91	43	72	11	2	150
TRADESMAN/CRAFTSMAN LEVEL 技工級									
Foreman/Chargehand 管工/領工	-	-	-	6	39	-	-	-	26
Building Services Mechanic 屋宇設備技工	-	-	12	11	36	-	-	-	3
Electrician/Electrical Fitter 電工／電氣打磨裝配工	-	-	16	218	342	23	9	-	698
Control Panel Assembler 控制板裝配工	-	-	6	3	-	-	-	-	36
Electrical Wireman 電氣佈線工	-	-	120	249	31	2	-	-	573
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) 空調製冷設備技工 (電力控制)	-	-	3	155	80	4	-	-	203
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Unitary System) 空調製冷設備技工 (獨立系統)	-	-	6	219	15	-	-	-	276

Job Title 職稱	Under \$6,001 以下	\$6,001- \$9,000	\$9,001- \$12,000	\$12,001- \$15,000	\$15,001- \$18,000	\$18,001- \$25,000	\$25,001- \$35,000	Over \$35,000 以上	Unspecified 未有說明
TRADESMAN/CRAFTSMAN LEVEL (Continued) 技工級 (續)									
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Air System)/ Sheet Metal Worker 空調製冷設備技工 (送風系統)/ 簿片金屬構造工	-	-	5	155	33	-	-	-	154
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Thermal Insulation)/ Thermal Insulation Craftsman 空調製冷設備技工 (保溫)/ 保溫技工	-	-	-	17	5	-	-	-	45
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) 空調製冷設備技工 (水系統)	-	-	15	57	10	-	-	-	115
Plumber and Pipe Fitter 喉管工	-	-	2	76	5	20	-	-	190
Mechanical Fitter/Machinist 機械打磨裝配工/ 機床工	-	-	4	35	21	-	-	-	6
Lift Mechanic 升降機技工	-	-	11	39	33	7	-	-	131
Escalator Mechanic 自動梯技工	-	-	6	15	29	-	-	-	31
Fire Services Electrical Fitter 消防電氣裝配工	-	-	2	36	11	-	-	-	234
Fire Services Mechanical Fitter 消防機械裝配工	-	2	-	174	3	-	-	-	217
Cable Jointer (Power) 強電流電纜接駁技工	-	-	-	-	2	-	-	-	6
Electrical Appliances Service Mechanic 電器用具維修技工	-	-	9	34	-	-	-	-	31
Welder 焊接工	-	-	-	12	14	23	-	-	55
AV and RF Mechanic 影音及射頻技工	-	-	3	-	-	-	-	-	-
Building Security System Mechanic 屋宇防盜系統技工	-	-	5	-	-	-	-	-	45

Job Title 職稱	Under \$6,001 以下	\$6,001- \$9,000	\$9,001- \$12,000	\$12,001- \$15,000	\$15,001- \$18,000	\$18,001- \$25,000	\$25,001- \$35,000	Over \$35,000 以上	Unspecified 未有說明
TRADESMAN/CRAFTSMAN LEVEL (Continued) 技工級 (續)									
Communication System Mechanic 電訊系統裝配工	-	-	21	15	-	-	-	-	11
Gas Installer 氣體裝置技工	-	-	-	17	-	-	-	-	32
Sub-total 小計	-	2	243	1546	709	79	9	-	3 118
SEMI-SKILLED WORKER/GENERAL WORKER LEVEL 半技術工人／普通工人									
Labourer 雜工	-	-	39	26	-	-	-	-	143
Semi-skilled Worker 半技術工人	-	4	11	-	-	-	-	-	21
Sub-total 小計	-	4	50	26	-	-	-	-	164
GRAND TOTAL 總計	-	12	313	1 663	755	156	99	22	3 565