

MANPOWER STATISTICAL REPORT
OF THE
2009 SUPPLEMENTARY SURVEY ON
E&M WORKERS WORKING IN CONSTRUCTION SITES

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**Manpower Statistical Report of
The 2009 Supplementary Survey on
E&M Workers Working in Construction Sites**

Summary of Survey Findings

Introduction

In March/April 2009, the Electrical and Mechanical Services Training Board conducted its sixth 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 2009 manpower survey of the building and civil engineering industry in March/April 2009. The supplementary survey covered all 867 building sites and 421 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 2009, a total of 6 466 E&M workers of electrical/mechanical engineering and related disciplines principal jobs were working in the construction sites. Of the 6 466 E&M workers, 5 809 workers (89.8%) were employed in building sites and 657 (10.2%) workers were working in civil engineering and other sites.

4. At the time of the survey, there were 7 trainees under various forms of training in construction sites, representing 0.1% 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	114	1.8%	3	2.6%
Technician	259	4.0%	4	1.5%
Tradesman/Craftsman	5 913	91.4%	-	-
Semi-skilled/General Worker	180	2.8%	-	-
Total:	6 466	100%	7	0.1%

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	11	1	-
Electrical Engineer 電機工程師	46	2	-
Refrigeration/Air-conditioning/ Ventilation Engineer 冷凝／空氣調節／通風設備工程師	14	-	-
Mechanical Engineer 機械工程師	15	-	-
Plumbing and Drainage Engineer 水喉及渠務工程師	-	-	-
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	11	-	-
Control and Instrumentation Engineer 控制及儀器工程師	-	-	-
Safety Officer 安全主任	6	-	-
Sub-total 小計	114	3	-
TECHNICIAN LEVEL 技術員級			
Supervisor 監督	26	-	-

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 (Continued) 技術員級 (續)			
Building Services Technician 屋宇設備技術員	9	-	-
Draughtsman 繪圖員	4	-	-
Electrical Engineering Technician 電機工程技術員	70	1	-
Refrigeration/Air-conditioning/ Ventilation Technician 冷凝/空氣調節/通風設備技術員	24	-	-
Mechanical Engineering Technician 機械工程技術員	27	3	-
Lift/Escalator Technician 升降機/自動梯技術員	16	-	-
Fire Services Technician 消防設備技術員	27	-	-
Electrical Instrument and Meter Technician 電工儀器技術員	20	-	-
Electronics Technician 電子技術員	18	-	-
Telecommunication Technician 電訊技術員	8	-	-
Assistant Safety Officer/Safety Supervisor 助理安全主任/安全督導員	10	-	-
Sub-total 小計	259	4	-
TRADESMAN/CRAFTSMAN LEVEL 技工級			
Foreman/Chargehand 管工/領工	81	-	-
Building Services Mechanic 屋宇設備技工	30	-	-
Electrician/Electrical Fitter 電工/電氣打磨裝配工	1 281	-	-
Control Panel Assembler 控制板裝配工	46	-	-

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 Wireman 電氣佈線工	1 044	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) 空調製冷設備技工(電力控制)	496	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Unitary System) 空調製冷設備技工(獨立系統)	559	-	-
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	402	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Thermal Insulation)/ Thermal Insulation Craftsman 空調製冷設備技工(保溫)/ 保溫技工	61	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) 空調製冷設備技工(水系統)	214	-	-
Plumber and Pipe Fitter 喉管工	293	-	-
Mechanical Fitter/Machinist 機械打磨裝配工/機床工	65	-	-
Lift Mechanic 升降機技工	258	-	-
Escalator Mechanic 自動梯技工	95	-	-
Fire Services Electrical Fitter 消防電氣裝配工	237	-	-
Fire Services Mechanical Fitter 消防機械裝配工	462	-	-
Cable Jointer (Power) 強電流電纜接駁技工	12	-	-
Overhead Linesman 架空電線技工	-	-	-

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 LEVEL (Continued) 技工級 (續)			
Electrical Appliances Service Mechanic 電器用具維修技工	80	-	-
Welder 焊接工	56	-	-
Building Security System Mechanic 屋宇防盜系統技工	10	-	-
Communication System Mechanic 電訊系統裝配工	74	-	-
Gas Installer 氣體裝置技工	57	-	-
Sub-total 小計	5 913	-	-
SEMI-SKILLED WORKER/GENERAL WORKER LEVEL 半技術工人／普通工人			
Labourer 雜工	150	-	-
Semi-skilled Worker 半技術工人	30	-	-
Sub-total 小計	180	-	-
GRAND TOTAL 總計	6 466	7	-

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	-	-	-	-	-	2	3	2	4
Electrical Engineer 電機工程師	-	-	-	-	6	21	8	-	11
Refrigeration/Air-conditioning/ Ventilation Engineer 冷凝／空氣調節／通風 設備工程師	-	-	-	-	3	6	3	-	2
Mechanical Engineer 機械工程師	-	-	-	-	3	1	5	1	5
Plumbing and Drainage Engineer 水喉及渠務工程師	-	-	-	-	-	-	-	-	-
Lift/Escalator Engineer 升降機／自動梯工程師	-	-	-	-	-	2	1	-	1
Fire Services Engineer 消防設備工程師	-	-	-	-	1	2	-	-	4
Electronics Engineer 電子工程師	-	-	-	-	-	4	4	2	1
Control and Instrumentation Engineer 控制及儀器工程師	-	-	-	-	-	-	-	-	-
Safety Officer 安全主任	-	-	-	-	-	1	3	1	1
Sub-total 小計	-	-	-	-	13	39	27	6	29
TECHNICIAN LEVEL 技術員級									
Supervisor 監督	-	-	-	5	6	6	1	-	8
Building Services Technician 屋宇設備技術員	-	-	2	2	1	1	-	-	3
Draughtsman 繪圖員	-	-	-	2	-	-	-	-	2
Electrical Engineering Technician 電機工程技術員	-	-	6	28	6	10	1	-	19

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	-	-	-	14	-	9	-	-	1
Mechanical Engineering Technician 機械工程技術員	-	1	-	8	10	7	-	-	1
Lift/Escalator Technician 升降機／自動梯技術員	-	-	-	-	3	7	-	-	6
Fire Services Technician 消防設備技術員	-	-	6	11	2	5	-	-	3
Electrical Instrument and Meter Technician 電工儀器技術員	-	-	-	-	1	4	-	-	15
Electronics Technician 電子技術員	-	-	-	5	1	9	-	-	3
Telecommunication Technician 電訊技術員	-	-	-	-	-	5	-	-	3
Assistant Safety Officer/Safety Supervisor 助理安全主任/ 安全督導員	-	-	-	-	-	-	-	-	10
Sub-total 小計	-	1	14	75	30	63	2	-	74
TRADESMAN/CRAFTSMAN LEVEL 技工級									
Foreman/Chargehand 管工/領工	-	-	3	13	21	14	-	-	30
Building Services Mechanic 屋宇設備技工	-	-	2	20	3	-	-	-	5
Electrician/Electrical Fitter 電工／電氣打磨裝配工	-	7	109	520	114	6	-	-	525
Control Panel Assembler 控制板裝配工	-	-	2	24	1	-	-	-	19
Electrical Wireman 電氣佈線工	-	73	188	356	150	8	-	-	269
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) 空調製冷設備技工 (電力控制)	-	6	94	43	167	7	-	-	179
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Unitary System) 空調製冷設備技工 (獨立系統)	-	2	71	81	184	-	-	-	221

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)/ 薄片金屬構造工	-	7	37	33	266	3	-	-	56
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Thermal Insulation)/ Thermal Insulation Craftsman 空調製冷設備技工 (保溫)/ 保溫技工	-	-	14	17	20	10	-	-	-
Refrigeration/ Air-conditioning/ Ventilation Mechanic (Water System) 空調製冷設備技工 (水系統)	-	-	25	18	126	-	-	-	45
Plumber and Pipe Fitter 喉管工	-	-	31	79	1	-	-	-	182
Mechanical Fitter/Machinist 機械打磨裝配工/ 機床工	-	-	6	20	-	-	-	-	39
Lift Mechanic 升降機技工	-	-	47	52	48	7	-	-	104
Escalator Mechanic 自動梯技工	-	-	12	2	81	-	-	-	-
Fire Services Electrical Fitter 消防電氣裝配工	-	1	64	59	34	2	-	-	77
Fire Services Mechanical Fitter 消防機械裝配工	-	1	70	90	109	7	-	-	185
Cable Jointer (Power) 強電流電纜接駁技工	-	-	-	-	-	-	-	-	12
Overhead Linesman 架空電線技工	-	-	-	-	-	-	-	-	-
Electrical Appliances Service Mechanic 電器用具維修技工	-	-	45	15	-	-	-	-	20
Welder 焊接工	-	-	3	40	11	-	-	-	2
Building Security System Mechanic 屋宇防盜系統技工	-	-	2	3	-	-	-	-	5

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	-	-	4	5	28	5	-	-	32
Gas Installer 氣體裝置技工	-	-	8	3	1	-	-	-	45
Sub-total 小計	-	97	837	1 493	1 365	69	-	-	2 052
SEMI-SKILLED WORKER/GENERAL WORKER LEVEL 半技術工人／普通工人									
Labourer 雜工	21	59	11	-	-	-	-	-	59
Semi-skilled Worker 半技術工人	-	2	11	-	-	-	-	-	17
Sub-total 小計	21	61	22	-	-	-	-	-	76
GRAND TOTAL 總計	21	159	873	1 568	1 408	171	29	6	2 231