

**SPECIFIC REGISTRATION REQUIREMENTS FOR MECHANICAL & ELECTRICAL WORKHEAD (ME)**

Workhead	Title	Description
ME01	Air-conditioning, Refrigeration & Ventilation Works	Installation, commissioning, maintenance and repairs of air-conditioning, refrigeration, cold rooms, cooling towers, heating and ventilation systems.
ME02	Building Automation, Industrial & Process Control Systems	Installation and maintenance of microprocessor or computer-based building control systems (e.g. integrated environmental control, fire and security computer control system), industrial process control systems.
ME03	Solar PV and System Integration	Installation, testing, commissioning, maintenance and repair of ground / building-mounted grid-connected solar PV systems for electricity generation.
ME04	Communication & Security Systems	(a) Installation and maintenance of communications system (e.g. intercom & wireless radio) and security systems (e.g. CCTV, security alarm, car park security control and card access system). (b) Installation and maintenance of Central Antenna Television (CATV) systems.
ME05	Electrical Engineering	Installation, testing, commissioning, maintenance and repair of electrical-based systems such as switchgears, transformers and large generators. It also includes the electrical installations (e.g. lightings) in building and marine vessels.
ME06	Fire Prevention & Protection Systems	Installation and maintenance of fire alarm, prevention and protection systems. This head may include the supply of fire extinguishers and fire hoses, only if these items are part and parcel of the system installation or maintenance contract. Otherwise, suppliers of fire extinguishers and fire hoses should register under Government Supplier Registration at <a href="https://www.gebiz.gov.sg/">https://www.gebiz.gov.sg/</a> .
ME07	High- & Low-Tension Overhead Line Installation	(a) Installation and maintenance of low and high-tension overhead cables. (b) Installation and maintenance of street lighting. (c) Installation and maintenance of poles for overhead cable and street lighting.
ME08	Internal Wiring for Telecommunications	Wiring work within a building for telecommunications purposes.  <b>All applicants must possess a valid IMDA telecommunication wiring contractor's licence.</b>
ME09	Lift & Escalator and Mechanised Car Parking Systems Installation and Maintenance	This covers the installation, commissioning and maintenance of lifts, escalators, travellers and mechanised car parking systems (MCPS).  <b>Note: Applicants must obtain the relevant regulatory workheads from the Building and Construction Authority (BCA) before conducting any registrable activities. See <a href="#">link</a>.</b>
ME10	Line Plant Cabling/ Wiring for Telecommunications	Laying of underground telecommunication cables.
ME11	Mechanical Engineering	Installation, commissioning, maintenance and repair of mechanical plant, machinery and systems, including power generation and turbine systems.
ME12	Plumbing, Gas Piping & Sanitary Works	Installation, repairs and servicing of water and gas pipes, sanitary works and plumbing fixtures.  <b>All applicants must possess either a valid PUB Plumber Licence or EMA Gas Service Worker Licence.</b>
ME13	Traffic Light Systems	Installation and maintenance of traffic light systems.
ME15	Integrated Building Services	Installation, commissioning, maintenance and repairs of integrated building services (including prefabricated MEP modules).  To be registered under this workhead, firms must already be registered at L2 and above under ME01, ME05 and at least one other ME workhead, which shall be ME02, ME04, ME06, ME08, ME11 or ME12.  <b>All applicants must have IMDA Telecommunication Wiring Contractor Class Licences and fulfil requirements in <a href="#">Table B2</a>.</b>

**TABLE B1: REGISTRATION REQUIREMENTS FOR ME01 – ME14**

Grade	Financial (Notes 1-2)	Track Record (over past 3 years) (Notes 3-4)	Personnel (Notes 5-7)	Management & Development (Note 9)	Additional Requirements (Note 10)
L6	\$1.5m	\$30m comprising: - \$7.5m PS - \$3m MC - \$3m SP	Minimally 2P with at least 5 years of relevant experience, comprising: - 1 SDCP (except ME07 and ME13)	Nil except:  For ME01, ME02, ME05, ME06, ME11 and ME12 BizSAFE Level 3 / ISO45001	For ME08 only IMDA Telecommunication Wiring Contractor Class Licence  For ME09 only Relevant RW02-04 registrations  For ME12 only Full-time employee with a PUB Plumber Licence or EMA Gas Service Worker Licence
L5	\$500,000	\$10m comprising: - \$1m SP	Minimally 1P; or  Minimally 2T, comprising: - 1 with at least 8 years of relevant experience		
L4	\$250,000	\$5m comprising: - \$500,000 SP	Minimally 2T, comprising: - 1 with at least 5 years of relevant experience		
L3	\$150,000	\$3m	Minimally 2T -		
L2	\$50,000	\$1m	Minimally 1T with at least 3 years of relevant experience		
L1	\$50,000	\$300,000	Minimally 1T	-	

m stands for million

**TABLE B2: REGISTRATION REQUIREMENTS FOR ME15**

Grade	Firm must also be registered in	Personnel (Notes 5-8)	Additional Requirements (Note 10)
L6	ME01 = L6, ME05 ≥ L4 and one other ME workhead* ≥ L2 or ME01 ≥ L4, ME05 = L6 and one other ME workhead* ≥ L2	Minimally 2P with at least 5 years of relevant experience, comprising: - 1MEC	IMDA Telecommunication Wiring Contractor Class Licence
L5	ME01 ≥ L5, ME05 ≥ L3 and one other ME workhead* ≥ L2 or ME01 ≥ L3, ME05 ≥ L5 and one other ME workhead* ≥ L2	Minimally 1P, comprising: - 1MEC; or  Minimally 2T, comprising: - 1T with at least 8 years of relevant experience - 1 MEC	
L4	ME01 ≥ L4, ME05 ≥ L2 and one other ME workhead* ≥ L2 or ME01 ≥ L2, ME05 ≥ L4 and one other ME workhead* ≥ L2	Minimally 2T, comprising: - 1T with at least 5 years of relevant experience - 1 MEC	
L3	ME01 ≥ L3, ME05 ≥ L2 and one other ME workhead* ≥ L2 or ME01 ≥ L2, ME05 ≥ L3 and one other ME workhead* ≥ L2	Minimally 1T + 1MEC	
L2	ME01 ≥ L2, ME05 ≥ L2 and one other ME workhead* ≥ L2	Minimally 1MEC	
L1	ME01 ≥ L1, ME05 ≥ L1 and one other ME workhead* ≥ L1	Minimally 1T + 1MEC	

\*This shall be either ME02, ME04, ME06, ME08, ME11 or ME12.

**Notes for Table B1 and B2**Financial

1. Both minimum paid-up capital and minimum net worth must meet the financial requirements.
  - a. Grade L2 to L6 firms are required to submit latest audited accounts (not more than 12 months old). For applicant that submit consolidated accounts, the applicant's paid-up capital and net worth, and not the Group's, shall be considered when assessing if the applicant meets the financial requirements. If there is any qualified, adverse, or disclaimer opinion issued by the auditor in the audited accounts, BCA may register the applicant at a different grade from what was applied for.
  - b. Grade L1 firms can submit the latest management accounts (not more than 12 months old) instead.
2. L6 firms are required to submit audited accounts annually to demonstrate that financial requirements have been met, to retain the L6 grade. Audited accounts shall not be more than four months old from the accounts closing date for SGX-listed firms, and not more than six months old for non-SGX listed firms.

Track Record

3. The types of track records are defined as follows:
  - a. PS - total value of project(s) executed in Singapore
  - b. MC - total value of main contract(s) (nominated sub-contracts may be included)
  - c. SP - value of single main contract or sub-contract.
4. In general, for applications for new, additional, and upgrading of workheads, only projects completed satisfactorily within the past three years are acceptable. For renewal applications, both ongoing and completed projects within the past three years are acceptable. Do note that:
  - a. For entry-grade applications. Both ongoing and completed projects within the past three years are accepted for new and additional workhead applications as well.

Personnel

5. The types of personnel are defined as follows:
  - a. P – Professional. P refers to personnel with a degree in Mechanical or Electrical/Electronics Engineering or equivalent approved by BCA.
  - b. T – Technician. T refers to personnel with a diploma in Mechanical, Electrical/Electronics Engineering or equivalent, awarded by BCA Academy, Nanyang Polytechnic, Ngee Ann Polytechnic, Republic Polytechnic, Singapore Polytechnic or Temasek Polytechnic. BCA may also approve such other diplomas or qualifications from time to time.
6. For specific workheads, the following certifications/qualifications can also be recognised as “T”:
  - a. For ME05. An EMA electrician can be considered as a “T” for Grades L1 and L2 only, while an EMA electrical engineer/technician can be considered as a “T” for Grades L3 to L5.
  - b. For ME08. Personnel with National Trade Certificate II (NTC 2) in electrical trade can be considered as a “T” for Grades L1 to L5.
  - c. For ME10. Personnel with National Trade Certificate II (NTC 2) in electrical trade can be considered as a “T” for L1. Two such NTC2 holders in electrical trade can be considered for L2.
  - d. For ME12. Personnel with a valid plumber licence issued by PUB/EMA can be considered as a “T” for Grades L1 and L2.
  - e. For ME01, ME02, ME03, ME04, ME05, ME06 and ME12. Personnel with Certificate in M&E Coordination (CITI/BCAA) can be considered as a “T” for Grades L1 to L5.
7. The types of certifications are defined as follows:
  - a. SDCP - Specialist Diploma in Construction Productivity conducted by BCA Academy.
8. For ME15, MEC refers to full-time personnel with any of the following qualifications:
  - a. BCA Academy: Advanced National Building Qualification in (i) Supervision & Coordination in M&E Works; (ii) Green Building Operations & Maintenance; (iii) Certificate or Specialist Diploma in M&E Coordination; (iv) Dip in Mechanical Engineering (Green Building Technology); or

- b. Ngee Ann Polytechnic: Diploma in (i) Building Services Engineering; (ii) Technology (Building Services); (iii) Technology (Building Services & Fire Safety); (iv) Engineering (Building Services & Fire Safety); or
- c. Temasek Polytechnic: Diploma in (i) Green Building & Sustainability; (ii) Intelligent Building Technology.

#### Management & Development

9. BizSAFE Level 3 is issued by Workplace Safety and Health Council (WSHC). For more details, please refer to: <https://www.tal.sg/wshc/programmes/bizsafe/about-bizsafe>.

#### Additional Requirements

10. More details of the additional licences are as follows:
  - a. For ME08 and ME15. Information about IMDA Telecommunication Wiring Contractor Class Licenses can be accessed via IMDA's Telecommunication Wiring Contractor Class Licenses web page (<https://www.imda.gov.sg/regulations-and-licensing-listing/telecommunication-internal-wiring--contractor--licence>).
  - b. For ME12. Information about PUB Plumber Licence and EMA Gas Service Worker Licence can be accessed via EMA's Gas Service Worker Licence web page (<https://www.ema.gov.sg/regulations-licences/licences/worker-licences/gas-service-workers-licence>).

#### Others

11. For the tendering limits, please refer to <https://www1.bca.gov.sg/growth-and-transformation/procurement/registration-of-built-environment-firms/tendering-limits/crs-fm-and-sy-registries-tendering-limits/>.