

ATTACHMENT: Areas of Industrial Training Coverage
*In accordance with the areas of expertise set by the Board of Quantity Surveyors Malaysia (BQSM)
 under the Assessment for Professional Competence (APC)*

Students are required to fulfil a minimum coverage of 7 out of 14 areas listed below prior to the completion of their Industrial Training.

A	Pre- Construction	Covers pre-contract work on construction in both contract and cost including on material selection and evaluation, requirements under Buildings Ordinance / Regulations and other legislations. Candidates are expected to be involved with drafting of specifications, preparation of record drawings, including measurement and valuation of works
B	Contract Administration	The administration of construction contracts including preparation and interpretation. Candidates are expected to be well versed with the tendering and procurement procedures as well as the appraisal of tenders, matters of cost estimating, cost control and measurement of works, project scheduling, resource planning and control of work and personnel, as well as contracts valuation and certification
C	Construction Contract Operations	Covers the performance of construction contracts and operations. Candidates are expected to be knowledgeable in, amongst others, the preparation and review of sub-contract tenders (finding the most suitable sub-contractors for particular sections of work), the measurement and pricing of construction work to be performed by the sub-contractors and the day to day running of construction / building projects
D	Cost Planning and Quantification of Construction Work	Covers the cost planning process during the construction stage including the preparation, issuance and implementation of the cost plans, as well as the quantification for all stages of the construction works. Candidates are expected to know the components of a cost plan, the measuring rules related to cost planning, sources of data and factors affecting the cost efficiency of a construction work
E	Post Contract Cost Control	This covers the costing and financial management of a project and construction works prior to final accounts. Candidates are expected to be knowledgeable in the cost control procedures and reporting; in particular forecasting and cash flows, the valuing in expenditure of provisional and prime cost sums, the expenditure of contingencies, the carrying out interim valuations, dealing with claims, authentication of actual costs and the reporting and issuance of the final accounts
F	Construction Services	Covers the issues of design and specification of installations, with candidates expected to know the role of supervision for the compliance with relevant regulations, the requirements necessary during inspection and testing as well the factors and issues arising should there alterations and/or improvement to the initial design
G	Project Management	Covers the overall aspect of managing a construction project with candidates expected to know the issues involved in either the development or re-development potential in a construction project as well as the related technical and legal implications. Areas of experiences include the preparation of budgets and development programmed, the appointment of specialist consultants, project coordination as well as progress monitoring and budget control

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H	Research and Development	Covers research activities relating to the competencies and relevant to the development of the profession
I	Public Development Policy	Covers the private sector's role and participation in public infrastructure projects as well as regulatory requirements for the construction and property development sector
J	General Management and Construction Finance	Covers the evaluation of consultant's reports on environmental impact assessment, energy conservation and similar studies. Involved in the financial matters in the project implementation
K	Life Cycle Costing	Covers the financial management tool for monitoring and management of costs over an asset's life to enable a comparison of predicted against actual cost of a construction project, including the cost operation, maintenance and future refurbishment needs
L	Facilities Management	Covers the outsourcing buildings and facilities operation and maintenance from design, build and to management to ensure functionality of the built environment
M	Sustainability and Green Building Index	Covers the accreditation and certification process for buildings including construction, design, materials use and regulatory requirements
N	Building Information Modeling (BIM)	Covers the integrated platform in producing, reading and maintaining a virtual 3D drawing of a construction project which include parties involved in the planning and implementation of a construction project into a mindset for process integration