



## 澳門機電工程師學會

**The Macao Institution of Electrical and Mechanical Engineers (MIEME)**  
**Associação dos Engenheiros Electrotécnicos e Mecânicos de Macau (AEEMM)**

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We would suggest that any applicant who possess of the relevant qualification, would be eligible to obtain Professional Qualification Registration, upon approval by authority. However, in order to register in DSSOPT as Registered Professional Engineer (RPE) for project execution, the applicant must be Permanent Resident in Macao, and an ordinary resident in Macao (e.g. Yearly absence from Macao must not exceed 6 months).

Our justification on the requirement that DSSOPT Registered Professional Engineer (RPE) for project execution must be Permanent Resident in Macao in compliance to Decree Law no. 79/85/M, Article 12 related to the responsibility of Engineers

The above legislations clearly stated that the RPE is responsible for the safety and integrity of his/her construction work for a period of 5 years after completion. A foreigner (non-permanent resident) may find difficult to bear the said responsibility for such long period of time. On the contrary, the Macau general publics may feel uncomfortable to reply their own safety on those who are being considered as non-local resident. Furthermore, non-local resident may have higher chance to relocate to other regions/ countries for several reasons such as termination of employment contract, back to home town due to family reason, within these 5 years

In consideration of the actual circumstance in Macau and adapt the international practice, the following comments for the captioned draft is submitted for your consideration:

1) The main objective of this draft ordinance is to govern the registration for professional qualification and the registration system in the project execution; the professional qualification can be approval and registration by the professional qualification committee of Engineers, the captioned committee will be formed by those members coming from the public administration and professional institutions, however, the representative of public administration should not be more than those coming from society. In addition, engineering institution has more professional knowledge and practical experience focused in their industries, we suggest that institution can be nominated to assess the application in technical level, assessment report will be submitted to the committee for evaluation in order to decide if application can be approval and issuing the qualification license.

2) The applicant for professional qualification registration should have Bachelor degree in Engineering, however, the degree should be evaluated from one recognized committee or educational system was recognized in Washington Accord; We comment that applicants are not necessary to have the Macao ID but they should have 5 years professional experience including 2 years in on job training period leading by the qualify mentor and also pass the official examination. As the registration of professional qualification is mainly considered of the competence in engineering including the professional knowledge and practical experience, the registration in neighbor region and countries in Europe didn't require to be a citizen, professionals in worldwide can be applied only with required competence.

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3) We suggest that those applicants are the members of Macau professional institutions with 3 years or above professional experience certified by the related institutions, the on job training can be exemption. Furthermore, those professionals were the Registration Professional Engineer conferred by other countries under international reorganization; the examination can be exempted for them.

4) The captioned draft ordinance is mentioned with 13 professional industries, these professional industries can be involved in the registration system of professional qualification, but we need to consider if specialist of the individual professional can be available in the committee or not. Refer to the registration in project execution, we need to evaluate the resource as well as the practice in other countries, those industries related to the safety should be considered in priority such as Civil Construction, Electrical, Mechanical, Fire Services and Gas Services.

5) Refer to the registration in project execution; those applicants are not only have the license of professional qualification but also hold the Macau permanent ID with accommodation in Macau above 6 month per year. These professional engineers are responsible the project design, engineering supervision and monitoring as well as taking the defect liability, if they didn't comply the condition above, they may be citizen of other regions or countries and stay there, it will be much difficulty to take the defect liability. As engineers for responsible of project execution in US /Europe countries, they are not only have the professional license but also have the residence permit with holding the ID issued by government.

6) In order to collaborate with this system in smooth operation, it is urgent to draft the updated technical regulation or code of practice in each professional industries, the project can be executed in compliance to the rule. After the system in operation is more effective based on the updated technical regulation, responsibility in engineering operation should be taken by the registration Engineers, the role of government is only involved in the administrative level and not necessary to involve the operation in engineering works, it is the system applied in the international practice.

7) This draft didn't clearly mentioned how to judge the negligence, it is caused that Macau didn't have the technical document such as the updated regulation and code of practice, we should take this opportunity for this task in order to let this system have operation in more effective. As the judgment of the negligence is responsible by the professional committee with appeal mechanism, members in the committee should be the Engineers working in industries with more practical experience and should not be science researchers, this committee is the engineering organization.

8) This draft should be applied in the private department and public entities, currently the approval of project is executed by the public entities, this task should be responsible by those engineers with professional competence in recognized qualification.

9) The captioned professional qualification committee should be divided into different sub- committee in order to be more effective in operation, the sub-committee will be included: Civil and Construction, Electrical & Mechanical, and others.

As mentioned in the Chapter 6 related the responsibility in the concerning disciplines, the Water supply and Drainage Services should be responsible in the Mechanical Engineer;



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Fire Services should be responsible in Fire Services Engineer and the Waterproofing in building should also be involved in the Civil Engineer.