

Talk on Route to Become MIEM/PE (PI Interview Session)

Ir. Hisham Yahaya Member of IEM-PI Board Member of BEM-Application Board



About the Speaker

Ir. Hisham Yahaya

- Having more than 30-years work experiences; 5-years in power generation industries with LLN and 11-years in Oil & Gas industries with Shell.
- Started own business in 2001, doing contracting, consulting, training mainly in Oil & Gas industries. In the last 5-years, involved in asbestos abatement.
 2001-2014: TECHNO MATRIX RESOURCES SDN BHD
 2010-present: SAFE ASBESTOS SOLUTIONS SDN BHD
 2012-present: PURPLE KNIGHT SOLUTIONS (formerly TMR CONSULT)
 2015-present: LINDENWOOD CONSULT SDN BHD
 Since 2003: involved in IEM, BEM, MOGSC, MIHF and universities IAP.
- □ Certified Facilitator for NOSS-DESCUM by DSD-MOHR.
- Ice hockey; Vice President of MIHF and Team Manager for SEA Games-2017 Men's National Team.



Presentation Topics

Introduction

- □ PI Interview Process: Oral Interview
- □ Mistakes made by Candidate during Interview
- Questions & Answers Session



Introduction

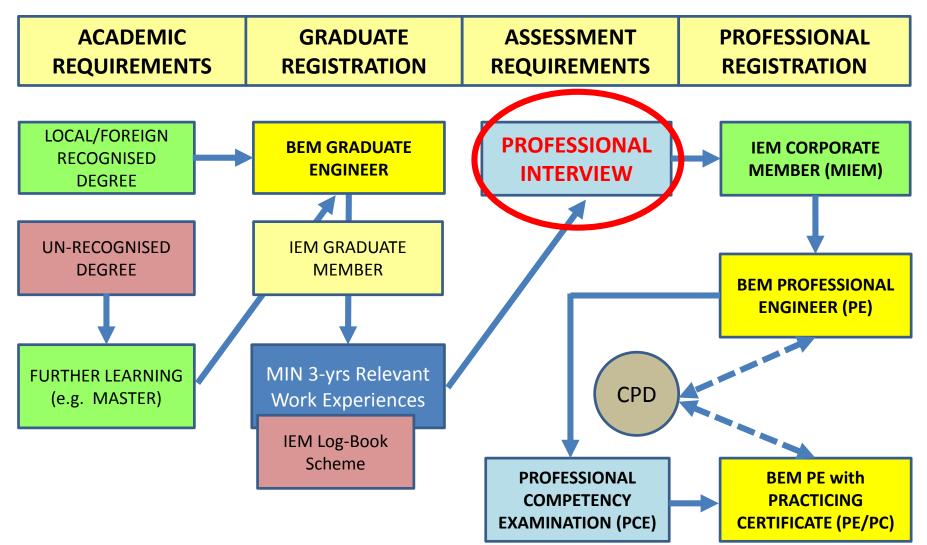
Objectives...

At the end of the Talk, all are expected to be familiar on:

- what happens during PI interview
- typical failure areas during interview



Route to Become MIEM/PE





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PI Interview

□ The Interview comprises of;

- ✓Oral Interview
- Essay Writing; 2 essays

□ Not in discussion:

Training and Experiences ReportProject Report



- Questions asked based on;
 - Training & Experiences Report;
 - Technical or Project Report;
 - Basic engineering knowledge pertaining to the subject matters within the line of experiences.
- Duration: 30-60 minutes



- Intended to assess the Candidate's:
 - Design experience: understanding with full participation;
 - Site/field experience: degree of exposure and effective participation;
 - Management experience: capability to organize assignment and accept responsibility;



- Intended to assess the Candidate's:
 - Engineering application: resourcefulness, ingenuity in giving solution with sound fundamentals;
 - Maturity of thought: development of professionalism, ability to focus on material issues rather than personal and petty matters;



- Intended to assess the Candidate's:
 - Communication skill: ability to communicate verbally and clarity in speech;
 - Professional responsibility: capability to accept professional responsibility, have accountability, not passing the buck and blame others;
 - Ethical judgment in the conduct of works: integrity and good governance;



- Intended to assess the Candidate's:
 - Awareness of engineering sustainability, health and safety issues;
 - The Candidate will be required to show that:
 - a. he can apply in practice, the theory of at least one of the branches of engineering science, and;
 - b. has acquired an understanding of the fundamental processes of research, investigation, planning, analysis, design and construction.



• WHAT INTERVIEWERS NORMALLY ASK !!

✓ What has the candidate done!

☑ Why has he done it!

✓ Does he fully understand what he has done!

☑ What engineering decisions he has made!

✓ What investigations and considerations were undertaken to reach the conclusion!



- Two (2) essays have to be written;
 - 1. SECTION-A: Technical
 - training & experiences
 - technical report
 - basic engineering
 - 2. SECTION-B: Code of Professional Conduct
 - regulations on professional conduct
- Duration: 1 ½ hours each



SECTION-A

- Basic engineering knowledge
- Professionalism of candidate
 - Experience in design works
 - Experience in site works
 - Project work



SECTION-B

Candidates are to demonstrate:

- an understanding of the professional code of conduct;
- his understanding of the ROLE of engineers in the Society vis-à-vis his professional Code of Conduct;
- he can write and present in a clear and concise manner.



• Preparation for the Essays;

 Should have good understanding of the issues relating to the topics;

- Can be developed through good experience, exposure to the problems and issues at work;
- ✓ Reading regularly on these issues; and
- Participating in professional activities, seminars, talks, forums etc.



• Preparation for the Essays;

 Candidates need to pay attention to language, grammar, format, content and style

✓ WHY...Engineers have to write reports too



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DOCUMENTATION					
Description of Section	Description of Field	Results	General remarks on Candidate's strength and weaknesses, and reasons for awarding any "NS" (if any)		
DOCUMENTATION: Report on Training and Experience	Duration of Training				
	Quality of Training				
	Site/Field Experience				
	Design Experience				
	Quality of Report				
	Adequacy of Report				



DOCUMENTATION						
Description of Section	Description of Field	Results	General remarks on Candidate's strength and weaknesses, and reasons for awarding any "NS" (if any)			
DOCUMENTATION: Project Report, Thesis or Feasibility Study	Presentation					
	Calculations					
	Drawings					
	Quantities					
	Specifications					



ORAL INTERVIEW						
Description of Section	Description of Field	Results	General remarks on Candidate's strength and weaknesses, and reasons for awarding any "NS" (if any)			
ORAL INTERVIEW: Technical Knowledge	Design Experience (Understanding with full participation)					
	Site/Field Experience (Degree of exposure)					
	Management Experience (Capability to organise assignment and accept responsibility)					
ORAL INTERVIEW: Professional Skill	Engineering Application (Resourcefulness, etc)					
	Communication Skill (Ability to communicate)					
ORAL INTERVIEW: Personal Attitude	Maturity of Thought (Development of professionalism)					
	Professional Responsibility (Capability to accept professional responsibility)					



Not able to express himself/herself on the project details;

- ✓ Not done by him/her;
- ✓ Forgotten: too many years ago;
- Scope too wide: focus on involvement;



Lack of design experiences;

- Not able to explain computer computation manually; such as input parameters, design thresholds;
- ✓ If there are design assumptions, not able to provide explanations;
- ✓ If there are design options; not able to explain reasons for the chosen design.



□ Lack of site experiences;

- Not able to explain some of site issues such as safety, quality or change of work scope;
- ✓ Not able to describe communications during team meetings such as toolbox meeting, work instructions or Job Safety Analysis (JSA);
- Management of contractor's manpower such as work deliverables or work schedule.



- Lack of engineering management skills; lack of maturity of thoughts;
 - Not able to explain reasons behind some of site decisions made;
 - How he/she cope with site arguments such as different options to execute works;
 - Management of site work delays, change of work scope, shortage of manpower/materials.



Lack of communication skills.

- Mixing between English and Malay languages during oral interview;
- Too long-winded in explanation; cannot be understood;
- ✓ No confident in explanation.

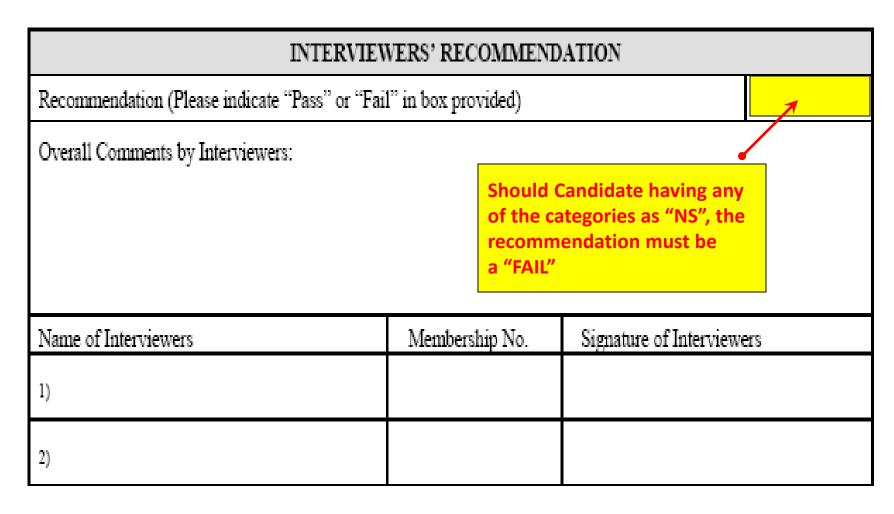


ESSAYS				
Description of Section	Results			
Section A: Technical Essay				
Section B: Code of Ethics				
Overall Comments by Interviewers:				



- Too short; not able to express his/her thoughts;
- Cannot explain effectively on project works for Section-A essay such as design or site management;
- Not able to convey good argument for Section-B essay topic;
- Full of spelling or grammar mistakes.







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Thank you