Preview of EAC Standard 2024

Highlight and Overview

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Venue: Zoom

Outline of Presentation

- KNOW YOUR STANDARDS
- QUALIFYING REQUIREMENTS AND ACCREDITATION CRITERIA
- KNOWLEDGE PROFILE
- OTHER CHANGES

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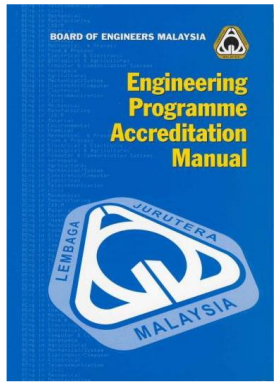
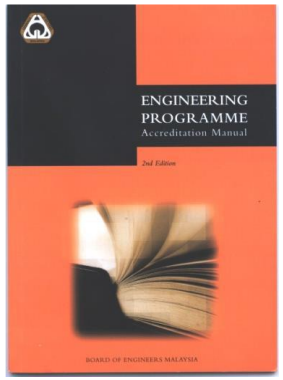
KNOW THE STANDARDS

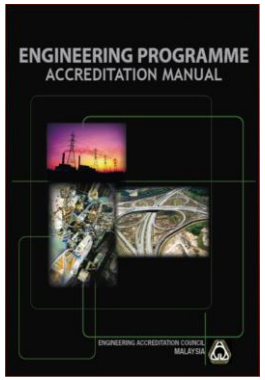
OBE AWARENESS | **OBE IMPLEMENTATION** | **OUTCOME EVIDENT**



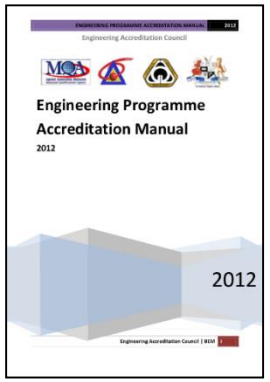
1999



2003



2006
(Rev. 2007)



2012

2017

2020

Harvesting OBE

#acculturationofOBE
1st May 2020

Fully prescriptive with qualitative assessment

Direct monitoring of outcomes (cohort & individual)

2024 ????

Main reference to IEA GAPC Paper

information is only valid on the date of its establishment and you may refer to BEM for new update.

QUALIFYING REQUIREMENTS AND ACCREDITATION CRITERIA

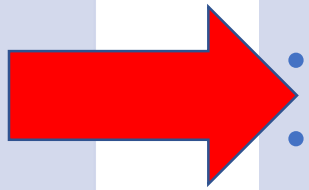
EAC Standard 2020	EAC Standard 2024
1. OBE	8. Programme Educational Objectives (PEO) and Programme Outcomes (PO)
2. Min. 135 SLT credits of which 90 SLT credits* must be engineering courses offered over a period of four (4) years.	1. A minimum of 135 SLT credits* of which 90 SLT credits* must be engineering courses offered over a period of four (4) years.
3. Integrated design project (IDP).	2. Integrated Design Project (IDP).
4. Final year project (minimum six (6) credits).	3. Final Year Project (FYP) (minimum six (6) SLT credits).
5. Industrial training (minimum of eight (8) weeks).	4. Industrial training (minimum of eight (8) weeks).
6. Full-time academic staff (minimum of eight (8)) with at least three (3) Professional Engineers registered with the BEM or equivalent.	5. Full-time academic staff (minimum of eight (8)) with at least three (3) Professional Engineers registered with the BEM.
7. Staff: student ratio 1: 20 or better.	6. Academic Staff: student ratio 1: 20 or better.
8. External examiner/advisor report. (one in every two academic years)	7. External Examiner/Advisor report. (one (1) in every two (2) years)

KNOWLEDGE PROFILE

EAC Standard 2020

WA = Requires in-depth knowledge that allows a fundamentals-based first principles analytical approach

- WK1 – natural sciences
- WK2 – mathematics
- WK3 – engineering fundamentals
- WK4 – specialist knowledge
- WK5 – engineering design
- WK6 – engineering practice
- WK7 – comprehension
- WK8 – research literature



EAC Standard 2024

WA = Requires in-depth knowledge that allows a fundamentals-based first principles analytical approach

- WK1 – natural sciences + awareness of social sciences
- WK2 – mathematics
- WK3 – engineering fundamentals
- WK4 – specialist knowledge
- WK5 – engineering design and operations
- WK6 – engineering practice
- WK7 – comprehension
- WK8 – research literature
- WK9 – ethics, inclusive behaviour and conduct

KNOWLEDGE PROFILE

	EAC Standard 2020	EAC Standard 2024
WK1	A systematic, theory-based understanding of the **natural sciences** applicable to the discipline	A systematic, theory-based understanding of the **natural sciences** applicable to the discipline and awareness of relevant **social sciences**
WK2	Conceptually-based **mathematics**, **numerical analysis**, **statistics** and formal aspects of **computer and information science** to support analysis and modelling applicable to the discipline	Conceptually-based **mathematics**, **numerical analysis**, **data analysis**, **statistics** and formal aspects of **computer and information science** to support detailed analysis and modelling applicable to the discipline
WK3	A systematic, theory-based formulation of **engineering fundamentals** required in the engineering discipline.	A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline

KNOWLEDGE PROFILE

	EAC Standard 2020	EAC Standard 2024
WK4	Engineering **specialist knowledge** that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline	Engineering **specialist knowledge** that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline
WK5	Knowledge that supports **engineering design** in a practice area.	Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar concepts, that supports **engineering design** and **operations** in a practice area
WK6	Knowledge of **engineering practice** (technology) in the practice areas in the engineering discipline.	Knowledge of **engineering practice** (technology) in the practice areas in the engineering discipline

KNOWLEDGE PROFILE

	EAC Standard 2020	EAC Standard 2024
WK7	**Comprehension** of the role of engineering in society and identified issues in engineering practice in the discipline: ethics and the professional responsibility of an engineer to public safety; the impacts of engineering activity: economic, social, cultural, environmental and sustainability.	**Knowledge** of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and **sustainable development***
WK8	Engagement with selected knowledge in the research literature of the discipline.	Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues

***** Represented by the 17 UN Sustainable Development Goals (UN-SDG)

KNOWLEDGE PROFILE

EAC Standard 2020		EAC Standard 2024
WK9	N/A	Ethics, inclusive behavior and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes


SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD
1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND
16 PEACE, JUSTICE AND STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS
SUSTAINABLE DEVELOPMENT GOALS

OTHER CHANGES

	EAC Standard 2020	EAC Standard 2024
Appendices	Not available	Appendix I - List of Documents to be made available during the accreditation visit Appendix J - List of evidences or documents that may be made available for verification during the accreditation visit
Glossary	Not available	Available
Definition of key terms	Available	Refined further for more accurate definition
Appeal Procedures	The notice of appeal must be made in writing to the Accreditation Appeals Board within two (2) weeks upon receiving the decision,	The notice of appeal must be made in writing to the Accreditation Appeals Board within two (2) weeks upon receiving the decision,

OTHER CHANGES

	EAC Standard 2020	EAC Standard 2024
Accreditation Policy	This section outlines the EAC's accreditation policy underlying the accreditation process. Accreditation shall be considered upon a written request from the IHL.	This section outlines the EAC's accreditation policy underlying the accreditation process. Accreditation shall be considered upon a written request from the IHL. An accredited programme by the EAC is the prerequisite for a graduate to register with the BEM.
Confidentiality	Documents or other information obtained by the Evaluation Panels, Evaluators, Associate Directors, EAD staff, and EAC members in connection with the accreditation exercise shall be treated as confidential.	Anyone who has access to any document or other information in connection with the accreditation exercise shall treat this as confidential.

OTHER CHANGES

	EAC Standard 2020	EAC Standard 2024
Conflict of Interest (CoI)	Members of the EAC, EAD Associate Directors, Evaluation Panels, Evaluators, Appeals Board and EAD staff are expected to be constantly aware of any conflict of interest. Members shall declare their interest or withdraw from any situation or activity that may constitute a conflict of interest.	Members of the EAC, the Evaluation Panels, the Head of Delegation (HoD), the Accreditation Appeal Board, the EAD Director/Associate Directors are expected to be constantly aware of any CoI. Members shall adhere to the Conflict of Interest Guidelines adopted by the EAC.

THANK YOU

"Committed To Engineering Excellence"

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