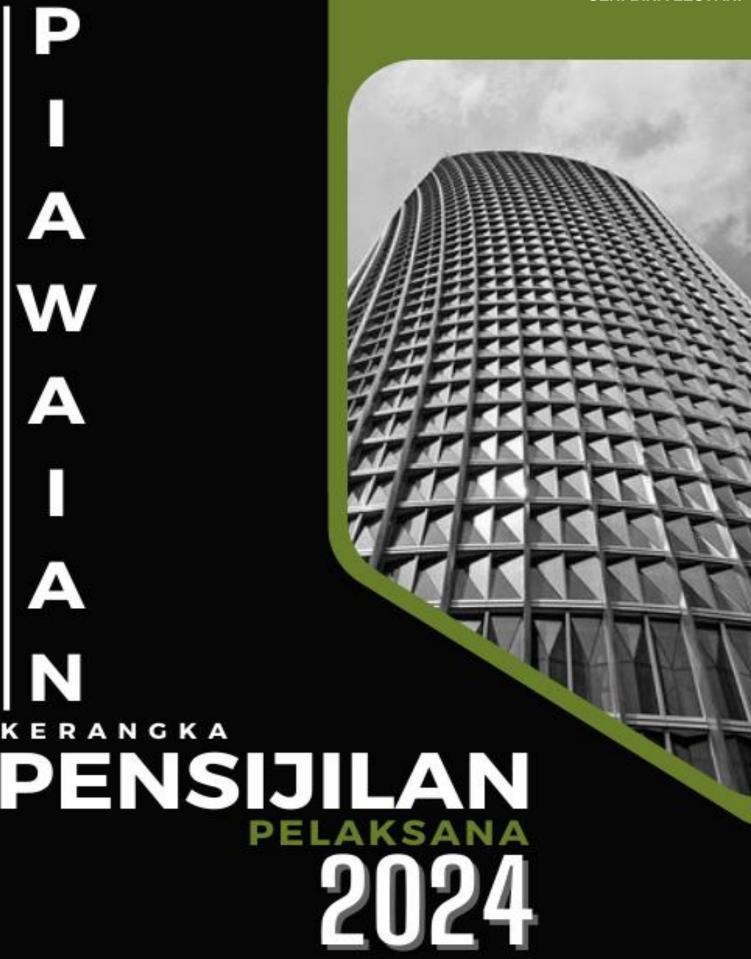


DISIPLIN ARKITEK [E10]

> **KOMPETENSI SENI BINA LESTARI**



KEPERLUAN SKOP PENGETAHUAN DAN KRITERIA PRESTASI

BIDANG KOMPETENSI : SENI BINA LESTARI TAHAP : TAHAP 2 - ASAS

TITLE SER		SENI BINA LESTAR	ENI RINA I ESTARI			
UNIT 1		TAHAP 2 (BASIC) – Demonstrate knowledge and understand the principles of Green Building Design, GBD.				
I FI FIVIFNI 1 1		Able to understand and describe the principles of Green Building Design, GBD.				
PERFORMANCE CRITERIA			RANGE OF VARIABLES			
1.0	The scope of basic GBD covers as follows: i. Overall concept of Green Building ii. Passive design elements iii. Active design elements iv. Best practice		Activities may be carried out by candidate or by o t h e r s within t h e team for whom candidate has responsibility. *Resources, environment, key personnel, duration, effort, sequences, software, green standards. (identify parameter/parameters)			
EVIDENCE REQUIREMENTS * (Identify evidence of competency at this element)						
1.0 2.0	, 3					
ELEMENT 1.2 Able to understand and describe Green Building Rating Tools and Standards						
PERFORMANCE CRITERIA			RANGE OF VARIABLES			
1.0	The identified Green Building Rating tools and standards are as follows: i. Local rating tool (MyCREST/GBI/Green RE/ pH JKR) ii. International Rating Tool (LEED/BREEAM/Green Mark etc.) iii. Local Standard (MS 1525:2019) iv. International Standard (if any)		Activities may be carried out by candidate or by others within the team for whom candidate has responsibility. *Resources, Environment, Key personnel, Duration, effort, sequences, software, green standards. (identify parameter/parameters)			
E	EVIDENCE REQUIREMENTS * (Identify evidence of competency at this element)					
1.0 2.0	,					

PIAWAIAN BAGI KOMPETENSI SENI BINA LESTARI

KEPERLUAN SKOP PENGETAHUAN DAN KRITERIA PRESTASI

BIDANG KOMPETENSI : SENI BINA LESTARI TAHAP : TAHAP 3 - KOMPETEN

TITLE		SENI BINA LESTARI				
UNIT 2		TAHAP 3 (COMPETENT) – Apply architectural knowledge and implement GBD by using green building rating tools, green building standards and building energy simulation (BES) software.				
ELEMENT 2.1 Able to design		Able to design green	en building			
PERFORMANCE CRITERIA		NCE CRITERIA	RANGE OF VARIABLES			
1.0	The scope covers: i. Interio ii. Exterio iii. Enviro iv. Best F	or nmental	Activities may be carried out by candidate or by others within the team for whom candidate has responsibility. *Resources, Environment, Key personnel, duration, effort, sequences, software, green standards. (identify parameter/parameters)			
EVIDENCE REQUIREMENTS * (Identify evidence of competency at this element)						
1.0 2.0	Underpinning knowledge. Supporting evidence: BES software energy analysis report (i.e. Energy Plus, Green Building Studio, IESVE), green building rating submission report etc.					
ELI	ELEMENT 2.2 Able to perform BPS		and energy analysis for designed green building			
	PERFORMA	ANCE CRITERIA	RANGE OF VARIABLES			
1.0	Building Energy Analysis covers: i. Energy ii. Solar and daylighting iii. Thermal Analysis iv. Natural Ventilation v. Carbon Emission		Activities may be carried out by candidate or by others within the team for whom candidate has responsibility. *Resources, Environment, Key personnel, Duration, effort, sequences, software, green standards. (identify parameter/parameters)			
EVIDENCE REQUIREMENTS * (Identify evidence of competency at this element)						
1.0 2.0						

KEPERLUAN SKOP PENGETAHUAN DAN KRITERIA PRESTASI

BIDANG KOMPETENSI : SENI BINA LESTARI TAHAP : TAHAP 4 - MAHIR

Recognized Green Building Expert Certification.

TIT	LE	SENI BINA LESTAI	रा			
UNIT 3 ELEMENT 3.1		Tahap 4 (proficient) – Provide evidence of consultation/advice on GBD and green project management. Use advanced BPS software such as BIM. Able to consult, evaluate and analyse building energy				
		performance and life-cycle-cost of GBD				
	PERFORMANC	E CRITERIA	RANGE OF VARIABLES			
1.0 The scope of consultation & evaluation consist of: i. Life Cycle Cost of Green Building ii. Facilities Management (FM) of Green Building iii. Energy Audit for Retrofitting iv. Energy Management System (EnMS15001)			Activities may be carried out by candidate or by o t h e r s w i t h i n t h e team for whom candidate has responsibility. *Resources, Environment, Key personnel, Duration, effort, sequences, software, green standards. (identify paramater/parameters)			
EVIDENCE REQUIREMENTS * (Identify evidence of competency at this element)						
1.0 2.0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					