Cisco Certified Architect Exam Topics (blueprint)

The following topics will be assessed during the exam process.



am Section	ns and Sub-task Objectives	٧
L. Gather,	clarify, and analyze requirements	
a. Gathe	r, clarify, and analyze business requirements	
i.	Recognize critical requirements (stated and implied)	
ii.	Recognize noncritical requirements (stated and implied)	
iii.	Identify and gather missing information	
iv.	Identify and clarify ambiguous information	
V.	Identify and resolve conflicting information and requirements	
vi.	Demonstrate knowledge of the business	
vii.	Decompose requirements and problems into component parts	
viii.	Recognize and/or clarify CAPEX parameters (e.g., equipment costs, capital software costs,	
	capital facility expenditures)	
ix.	Recognize and/or clarify OPEX parameters (e.g., software tooling changes, leases,	
	retraining, staffing, support contracts, utilities, licensing and hosting)	
х.	Recognize, challenge, and resolve unrealistic requirements (e.g., common-case vs. worst-	
	case scenario)	
b. Gathe	r, clarify, and analyze technical requirements	
i.	Recognize critical requirements (stated and implied)	
ii.	Recognize noncritical requirements (stated and implied)	
iii.	Identify and gather missing information	
iv.	Identify and clarify ambiguous information	
V.	Identify and resolve conflicting information and requirements	
vi.	Leverage existing network documentation to gain understanding of the current network	
	and how it supports the business	
vii.	Decompose requirements and problems into component parts	
viii.	Recognize, challenge, and resolve unrealistic requirements (e.g., common-case vs. worst-	
	case scenario)	
c. Align	business and technical goals and direction	
i.	Map technical solution to business impact	
ii.	Map business needs and requirements to technology	
iii.	Recognize the relationship between technical and business requirements	
iv.	Map business continuity requirements to the network architecture	
V.	Establish a vision and strategy for the network with clarity and completeness	
vi.	Analyze and estimate various impacts on the network from a change in business structure	1
	or process	

	vii.	Analyze and estimate the SLAs required by the business and evaluate the impact of
		outages
	viii.	Recognize, challenge, and resolve unrealistic requirements (e.g., common-case vs. worst-
		case scenario)
d.	Perfo	rm cursory rough estimations for new or changing requirements and/or informal what-ifs
	and re	equests
	i.	Recognize the impact on the existing network and how it currently supports the business
	ii.	Estimate the general implementation cost and time frame
	iii.	Estimate project feasibility and practicality (including assumptions of parameters and
		constraints that impact the two)
	iv.	Provide an opinion of how the request does or does not align with network and business
		goals (both current and future)
	٧.	Recognize and/or clarify CAPEX parameters (e.g., equipment costs, capital software costs,
		capital facility expenditures)
	vi.	Recognize and/or clarify OPEX parameters (e.g., software tooling changes, leases,
		retraining, staffing, support contracts, utilities, licensing and hosting)
2. [Develop	a functional specification for the network
a.	Devise	e a solution
	i.	The complexity of the network is appropriate for the business requirements
	ii.	The survivability of the network is appropriate for the business requirements
	iii.	The scalability of the network is appropriate for the business requirements
	iv.	The manageability of the network is appropriate for the business requirements
	٧.	The security of the network is appropriate for the business requirements
	vi.	The performance of the network is appropriate for the business requirements
	vii.	The cost of the network is appropriate for the business requirements
b.	Perfo	rm risk analysis
	i.	Technologies
	ii.	Security
	iii.	Legal
	iv.	Dependencies (e.g., outsourcing to third parties, training, tools, provisioning)
3. (Create a	a road map
a.	Create	e a migration and transition strategy
	i.	Account for long-term requirements
	ii.	Perform and account for risk analysis
	iii.	Minimize the negative impact on existing services
	iv.	Identify parties responsible for design, implementation, and operation tasks
	٧.	Strive for ease of implementation

4. Con	vey decisions and rationale (written and verbal)			
a. Communicate to a business audience				
	i. Articulate business problems, requirements, and constraints			
	ii. Articulate technical problems, requirements, interdependencies, and constraints			
	iii. Communicate the business strategy and direction			
	iv. Communicate the risks and benefits			
	v. Communicate with specificity rather than generality (e.g., "does not scale because"			
	rather than simply "does not scale")			
,	vi. Communicate the rationale for decisions clearly and confidently			
\	vii. Accept, think about, and respond to changing requirements, criticisms, questions, and			
	challenges in a timely and positive (not arrogant or defensive) manner			
V	iii. Influence others			
b. Co	ommunicate to a technical audience			
	i. Articulate business problems, requirements, and constraints			
	ii. Articulate technical problems, requirements, interdependencies, and constraints			
	iii. Communicate business strategy and direction			
	iv. Communicate risks and benefits			
	v. Communicate with specificity rather than generality (e.g., "does not scale because"			
	rather than simply "does not scale")			
,	vi. Communicate the rationale for decisions clearly and confidently			
\	vii. Accept, think about, and respond to changing requirements, criticisms, questions, and			
	challenges in a timely and positive (not defensive) manner			
V	iii. Influence others			
5. Den	nonstrate technical expertise			
a. Te	echnical expertise			
	i. Demonstrate conceptual knowledge of a wide array of network technologies (e.g., Layer			
	3 routing, tunneling, security, network management)			
	ii. Demonstrate conceptual knowledge of places in the network (e.g., data center, WAN,			
	campus)			
	iii. Demonstrate conceptual knowledge of a wide array of applications on the network (e.g.,			
	voice, video)			
	iv. Demonstrate conceptual knowledge of interactions between components and			
	technologies			
	v. Demonstrate knowledge of current and future directions of technologies, places in the			
	network, and applications			
	vi. Demonstrate detailed knowledge of a range of network technologies applicable to			
	infrastructure design (e.g., Layer 3 routing, tunneling, security, network management)			