

MEF-NF (Network Foundations) Exam Blueprint A (June 2017)**Sections/Objectives****% Weighting****1 Software Defined Networking (SDN) Concepts**

24.53%

Includes definitions of SDN, characteristics of SDN solutions, evolution, benefits, challenges in deployment, scenario & implementation analysis, understanding the components involved in an SDN solution. This knowledge is concept-level only.

- 1.01 Explain the different definitions of SDN today
- 1.02 Explain the key characteristics of an SDN solution
- 1.03 Compare the different characteristics of an SDN solution to those of its network predecessor
- 1.04 Explain the major benefits of an SDN solution
- 1.05 Explain the major challenges presented by the move to an SDN network
- 1.06 Given a scenario, explain how SDN would be implemented to leverage its benefits
- 1.07 Explain how the various NFV technologies (e.g., virtualization, tools, architecture) relate to each other

2 Network Functions Virtualization (NFV) Concepts.

25.00%

Definitions of NFV, characteristics of NFV solutions, evolution, benefits, challenges in deployment, scenario & implementation analysis, security, understanding the components involved in an NFV solution. This knowledge is concept-level only.

- 2.01 Explain the key definitions of NFV today
- 2.02 Explain the key characteristics of an NFV solution
- 2.03 Compare the different characteristics of an NFV solution to those of its network predecessor
- 2.04 Explain the major benefits of an NFV solution
- 2.05 Explain the major challenges presented by the move to an NFV solution
- 2.06 Given a scenario, explain how NFV would be applied to leverage its benefits
- 2.07 Explain how the various NFV technologies (e.g., virtualization, tools, architecture) relate to each other

3 LSO/Orchestration Concepts

28.57%

Definitions of LSO/Orchestration, Deployment aspects of orchestrated solutions, benefits and challenges in this domain. Also understand scenarios where the benefits of LSO/Orchestration can be leveraged, and familiarity with the major tool sets in this domain.

- 3.01 Explain the key definitions of LSO/orchestration today
- 3.02 Explain the key characteristics of an orchestrated solution
- 3.03 Explain the major benefits of an orchestrated solution
- 3.04 Explain the major challenges presented by the move to an orchestrated solution
- 3.05 Given a scenario, explain how LSO/orchestration would be implemented to leverage its benefits
- 3.06 Explain how the various LSO/orchestration technologies (e.g., Tosca, YANG, PNDA, information models, tools) relate to each other

4	Carrier Ethernet Concepts	18.00%
<p>Understand the major building blocks of connectivity services, the evolution in the services from L2 to L1-L3, benefits and challenges in deployment, and how a scenario can leverage carrier-based connectivity services.</p> <p>4.01 Explain the major building blocks of carrier-based connectivity services</p> <p>4.02 Explain the roles of the organizations/actors involved in buying and selling carrier-based connectivity services</p> <p>4.03 Compare the different characteristics of a carrier-based connectivity solution to those of its predecessor</p> <p>4.04 Explain the major benefits of a carrier-based connectivity services solution</p> <p>4.05 Explain the major challenges presented in deploying a carrier-based connectivity solution</p> <p>4.06 Given a scenario, explain how a carrier-based connectivity solution would be implemented to leverage its benefits</p>		
5	The Software-Driven Network Vision	15.00%
<p>Understand the key components and characteristics of modern network technologies. What are the benefits, and what are the challenges in deploying software-enabled systems? How can SDN, NFV, Carrier Ethernet, and LSO/Orchestration be leveraged to empower these networking solutions?</p> <p>5.01 Explain the key characteristics (i.e., agile, assured, and orchestrated) of MEF's Third Network</p> <p>5.02 Explain the predecessors to MEF's Third Network (i.e., the Internet, Carrier Ethernet 2.0)</p> <p>5.03 Explain the major benefits promised by a software-driven connectivity/functional service</p> <p>5.04 Explain the major challenges in deploying a software-driven connectivity/functional service</p> <p>5.05 Given a scenario, explain how combinations of SDN, NFV, and LSO/orchestration are leveraged to form a Software-Driven connectivity/functional solutions</p>		
Total		100%