Telecoms & Tech Academy

COURSE DESCRIPTION NFV & SDN FOR TELECOMS

Format: Classroom Duration: 2 Days



COURSE SUMMARY

HIGHLIGHTS

- Highly focused and in-depth training from the experts – including relevant updates from Informa's extensive research team
- Expert trainers and programme directors who are industry experienced, and highly accomplished training professionals
- Training outcomes and competency development designed to meet industry and organisational requirements



"The course was good and very helpful, the teacher was well up to the task!"

GCL, Econet

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COURSE SUMMARY

Communications Service Providers (CSPs) are currently being forced through a period of business and network transformation, in order to realise greater efficiencies and build a next-generation framework on which new opportunities and revenues can be maximised. Software Defined Networking (SDN) and Network Function Virtualisation (NFV) are key technologies in realising this process.

The two areas of transformation are linked at both technical and conceptual levels. The combination of SDN and NFV is enabling a revolutionary change in telecommunications architecture.

This programme focuses squarely on the technical aspects of this network transformation and how it can support wider transformation within the business. Specifically, we look at the underlying concepts facilitated though the use of SDNs, NFV, and Cloud techniques. Conceptual models, architectures, best practice, operation, and deployment issues are explored in detail.

Case studies show how companies around the world are already utilising virtualisation, and the evolving industry standards are used to demonstrate how interoperability will be maintained.

AVAILABILITY

All our programmes are available on a customer-specific basis:

- Fully customisable
- Range of delivery formats available
- PACE-enabled to maximise learning
- ROI experienced consultants

OUTCOMES & COMPETENCY DEVELOPMENT

Participants will develop or be able to:

- Explain how software defined networking and network function virtualisation are transforming the telecommunications industry
- Recommend areas that could gain from the application of SDN and NFV techniques
- Make well-grounded and realistic judgements on the limitations of virtualisation
- Explain how the judicious use of virtualisation enables new business models and creates new opportunities
- Apply effective techniques to evaluate the performance of transformational projects
- See where companies fit within the SDN and NFV supply chains
- Make well-judged decisions on the security implications of virtualisation

COURSE CONTENTS

SDN AND NFV CONCEPTS

- Layered architectures; management overview and control of network traffic
- SDN over multiple network domains
- NFV Features and benefits
- Virtualised fixed and mobile network use cases
- Software based solutions for business agility
- Hybrid SDN and NFV

SDN ARCHITECTURE AND **APPLICATION**

- SDN evolution •
- Routing and network • forwarding
- SDN for Datacentre, Transport, SD-WAN edge, and NFV/NSH Virtualised services
- SDN Layering, Openflow and **Open Daylight**
- Networking for Virtualised Servers
- **Cloud based Control Plane** •
- SDN Management Plane
- SDN Controller requirements •

Functional delivery from Appliance to Orchestrated VNFs

- NFV Evolution
 - ETSI Architecture and Standardisation
- NFV Security •
- ETSI Management and Orchestration
- Enhanced Platform Awareness
- Dataplane Acceleration and DPDK
- ETSI Management and Orchestration
- VNF Integration
- NFV Use cases, and virtualised Customer Premises Equipment
 - Integration with the legacy Network and OŠS/BSS
 - Operational implications; Procurement and Skills considerations
 - Open Source and

SDN industry groups; OpenFlow, OpenStack, and OpenDaylight

- NFV Industry groups:
 - ETSI NFV. OSM. MEC. and ENI:
 - OCP and the Telecom Infra Project
 - Linux ONAP, OPNFV, OpenvSwitch, and DPDK/FDiO;
 - MEF LSO:
 - ATIS
 - **TMForum Zoom**
- Leading Operator Initiatives;
 - AT&T Open CORD,
 - Deutsche Telekom Terastream and Future N&SM
- Leading Vendor activities

INDUSTRY TRENDS AND ANALYST PREDICTIONS

- The SDN and NFV market:
 - Segmentation and Revenues
 - Professional Services
- From NFV to Cloud Native microservices
- 5G and Network Slicing

COSTS AND BENEFITS OF SDN/NFV

- Total cost of ownership
- Time to market advantages
- Transformation initiatives
- CAPEX/OPEX impacts

NFV ARCHITECTURE AND APPLICATION

INDUSTRY ACTIVITY

NFV Maturity stages

About Telecoms & Tech Academy

Telecoms & Tech Academy, part of Informa Tech is a leading training partner to the telecoms, media and technology (TMT) industries, having trained more than 30,000 professionals and 500 businesses globally.

We were borne out of the telecoms industry and understand the challenges the sector has been facing. Our training portfolio continues to evolve to help address new and emerging skills gaps faced by telecoms & tech businesses.

Our In-Company Solutions

Expert insight, delivered in a format to suit your needs, to enhance knowledge and drive performance in your team. Our learning & development consultants will work closely with your team to establish your unique business needs and define success measurements.



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