

Online NBN Overview Course

Background

This online course outlines NBN technologies, architectures, service models and policy issues. It is based on a one day NBN Technology Overview course widely run for Commonwealth, State and Local Governments, enterprise clients and other agencies. The course runs on a standard eLearning platform, and completes in half a day, including quizzes.

It is located at nbncourse.com

Intended audience

Those in NBN related technical and non-technical roles. Course participants may come from State and Commonwealth Government agencies, local councils, and retail service providers, engineering companies, utilities and carriers.

Outline

The course begins by reviewing how the NBN has evolved through successive governments. The NBN wholesale service model is then outlined, along with a review of the NBN rollout. Following this, NBN technology components are considered, focusing on FTTP and FTTN and their underlying technologies (both current and future). The NBN architecture is then described, as well as the interfaces between service providers and the NBN.

NBN Wireless and Satellite Broadband services are then reviewed, focusing on the technologies and their expected performance. The course concludes by examining the NBN consumer and business services, voice services, regulatory issues (including the ACCC role) and the NBN pricing model.

Course Objectives

Participants completing this course should be able to:

- Outline the NBN objectives and business case, and describe the wholesale service model
- List the NBN data rates, and describe what they actually mean
- Outline how the Fibre to the Premises "GPON" architectures used in the NBN will cater for growth in bandwidth requirements
- Describe the key capabilities of Fibre to the Node (FTTN) broadband
- Outline how cable broadband technologies will extend to the NBN
- Define POI, Fibre Serving Area (FSA), Fibre Distribution Hub, Fibre Access Node, and describe the interface points between the NBN and carriers/access seekers
- Describe the progress of and key issues facing the NBN rollout
- Outline the key details of the NBN fixed wireless broadband architecture and services
- Describe the key NBN Interim Satellite Service characteristics

- List the key features and describe the capacity of the NBN Long Term Satellite Service
- Describe the mechanisms for voice service provision within the NBN
- Understand how the NBN pricing model works
- Describe the key regulatory issues facing the NBN and the ACCC role

About the Course Creator

Dr Evers has an engineering degree from Yale University, a Graduate Diploma in Education and a PhD in telecoms engineering from the University of Wollongong, where he lectured for 12 years. He has delivered telecoms training to Government and Industry for 20 years

The content for this NBN course was been run for staff from the following agencies:

Commonwealth

ACMA
AFP
Australian Crime Commission
Department of Communications

State

NSW Govt
WA Govt
SA Govt
ACT Govt
Old Govt

Enterprise

Certatech
Broadcast Australia
ACCAN
HPC Data Centres

Local Councils

NSW

Blacktown
Fairfield

Kiama

Riverina Eastern Regional Organisation of
Councils
Randwick
Shoalhaven City Council
Wollondilly Shire Council
Holroyd City Council

SA

City of Tea Tree Gully
Charles Sturt
City of Unley

QLD

Brisbane City Council

WA

Town of Victoria Park
City of Mandurah

VIC

Darebin
Glen Eira City Council