CURRICULUM

Discover 5G (3GPP R17) | TP00001-K-1701

Last Updated 12/14/2023 **Duration** 2 hours ★★★★★ 760

Details

Brief Description:

- Mobile technologies usher in new paradigms for connected society. Mobile technologies brings together people along with things, data, applications, transport systems and cities in a smart networked communications ecosystem. This training focuses on 5G as it has been standardized so far. In this training, you will learn what is driving 5G, the technical performance requirements for the radio systems to support 5G, taking into account the needs of a wide portfolio of future scenarios and use cases. Learn what 5G New Radio and Core networks look like and get an overview of the next evolution up to 6G. this course is dedicated to anyone who wants to get an overview about 5G technology and its application.

Target Group:

- Everyone who require an introduction to 5G

Learning Objectives:

The learner will be able to:

- Explain Explain why we need 5G
- Identify Identify 5G use scenarios
- Discuss 5G System requirements
- Explain what 5G radio look like
- Explain what 5G Core look like
- Discuss 5G and Timeline

In detail the learner will be able to:

- Why will We Need 5G?
  - Explain why we will need 5G
  - List the 5G drivers
  - Explain why 4G is not enough

- What is the Set of Key Use Cases for 5G?
  - List the main 5G use cases

- What are the Technical Performance Requirements for 5G Sys?
  - Discuss 3GPP defined 5G requirements

- 5G System Overview
  - Discuss the 5G System end to end architecture
  - Explain 5G deployment options

- Building Blocks for 5G NR
  - Discuss the main building blocks for 5G New Radio

- Building Blocks for 5G Core
  - Discuss the main building blocks for the 5G core network

- Timeline for 5G Standards and Roll-out
  - List Key milestones for 5G development
  - Discuss Time line for 5G standards and roll-out

Prerequisite:

- General telecommunications background (not enforced)

Contents:

- 1 - Discover 5G (3GPP R17)
    - 1.1 - Why will We Need 5G?
    - 1.2 - What is the Set of Key Use Cases for 5G?
    - 1.3 - What are the Technical Performance Requirements for 5G Sys?
    - 1.4 - 5G System Overview
    - 1.5 - Building Blocks for 5G NR
    - 1.6 - Building Blocks for 5G Core
    - 1.7 - Timeline for 5G Standards and Roll-out

Provider	NokiaLearn
Version	25.0
Available Language(s)	English (US)
Subject(s)	[5G Technology](#)

Contents

8 Trainings

ONLINE CLASS	**Why will We Need 5G? | TP00001-W-1701- 01**
ONLINE CLASS	**What is the Set of Key Use Cases for 5G? |TP00001-W-1701-02**
ONLINE CLASS	**What are the Technical Performance Requirements for 5G System? | TP00001- W-1701-03**
ONLINE CLASS	**5G System Overview | TP00001-W-1701-04**
ONLINE CLASS	**Building Blocks for 5G NR | TP00001-W- 1701-05**
ONLINE CLASS	**Building Blocks for 5G Core | TP00001-W- 1701-06**
ONLINE CLASS	**Timeline for 5G Standards and Roll-out |TP00001-W-1701-07**
ASSESSMENT	
TEST	**Discover 5G | TP00001-E-1800**