5G for non-telco experts

Course Description

Agenda

- Course introduction
- Unit 1: Introduction – From 2G to 5G
- Unit 2: 5G use cases – Some examples
- Unit 3: 5G versus 4G
- Unit 4: Technology features of 5G
- Unit 5: 5G – Frequently asked questions
- Course evaluation and conclusion

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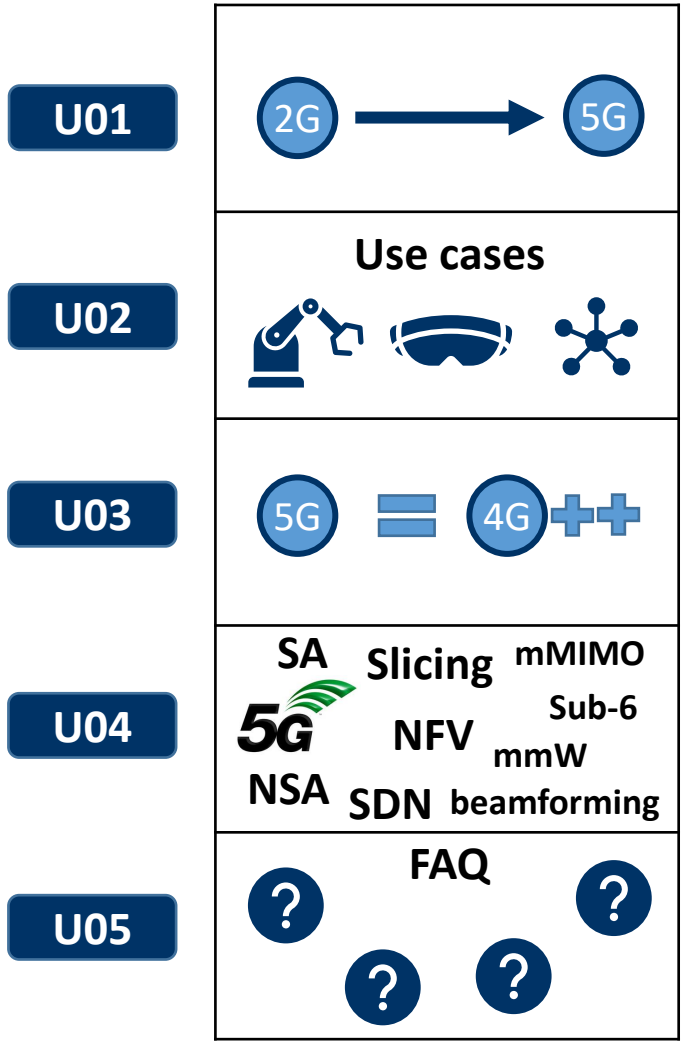
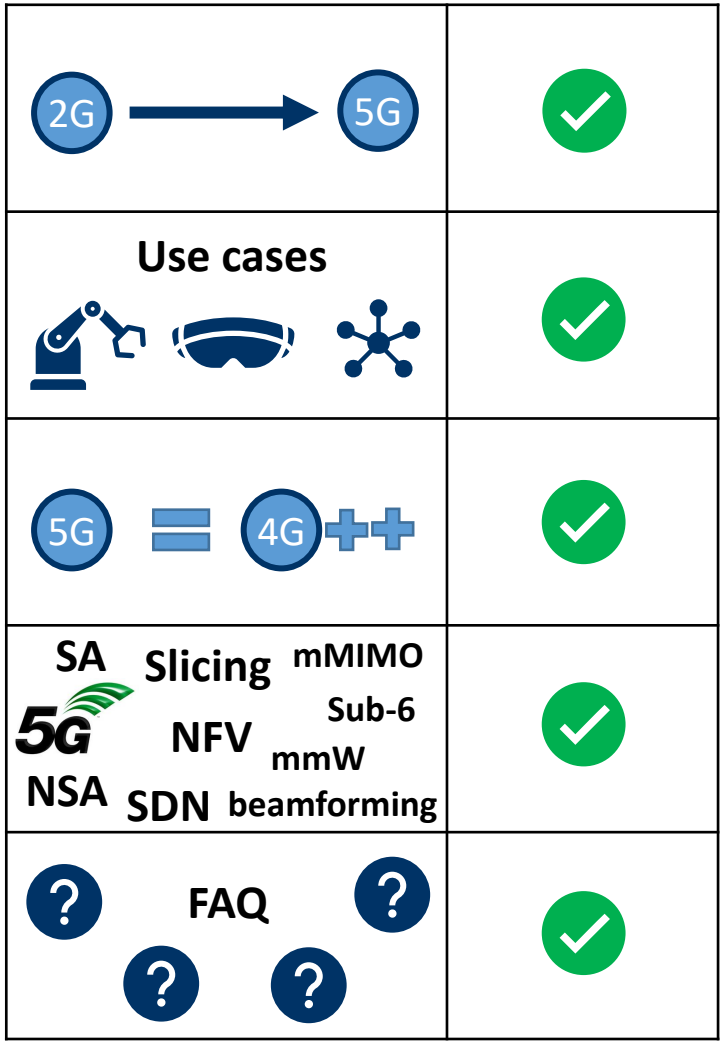
Overview

- Are you an expert from an industry outside telecommunications and interested in knowing more about 5G?
  - This course explains 5G, starting with a short introduction about the evolution of digital mobile technologies since introduction of 2G.
  - Right in the early part, 5G use case examples will be presented.
  - Then the added value of 5G versus 4G will be highlighted.
  - The deployment timeline will be discussed along with service and terminal availability in time.
  - The key characteristics of 5G will then be depicted with more technology aspects.
  - To complete this course, answers to frequently asked questions about 5G will be provided in an interactive manner.



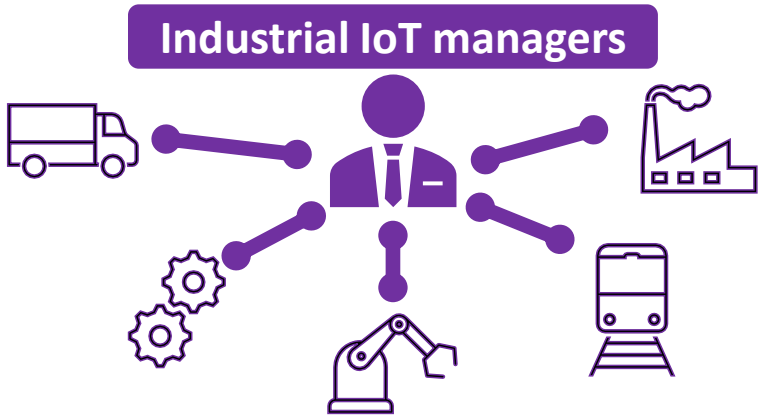
Why should you attend this course?

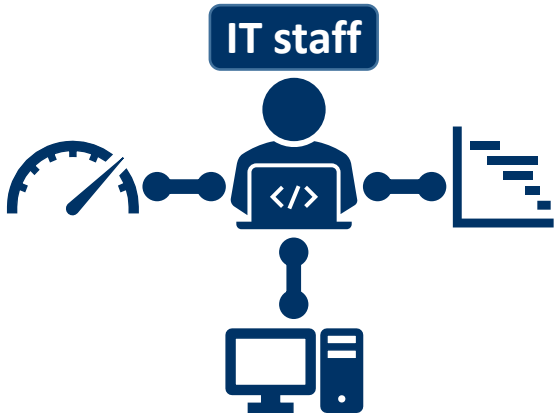
- Delegates attending this course will get the following questions answered:
  - What for do we need all these “G”s (2G to 5G) in mobile communications?
  - Which are the most important use cases to expect?
  - What makes the added value of 5G compared to 4G?
  - Are there different flavours of 5G and when will these be available?
  - Which terminals are required?
  - Which 5G features enable its added values?

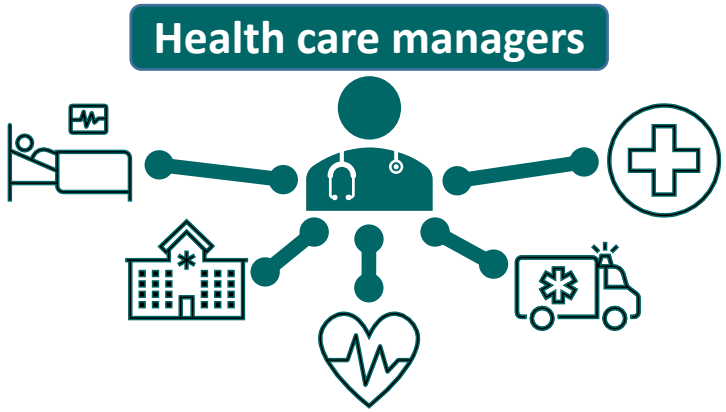


Who should attend this course?

- This course is dedicated among others to:
  - Managers dealing with industrial IoT.
  - IT staff dealing with industrial IoT.
  - Managers in healthcare as well as in the automotive industry dealing with wireless connectivity of things.
  - Sales and Marketing staff.
  - Public authorities and their staff.







Course program

- Unit 1: Introduction – From 2G to 5G
  - What for do we need all these “G”s?
  - Evolution of mobile technologies since 2G.
  - Added value of each technology generation versus the preceding.
- Unit 2: 5G use cases – Some examples
  - FWA – Fixed Wireless Access
  - NB Industrial IoT
  - WB Industrial IoT
- Module 3: 5G versus 4G
  - 4G technology
    - Services of 4G
    - Network characteristics to fulfil the service requirements
    - Network architecture
    - Handsets and terminals
  - 5G technology
    - New services
    - Network characteristics to fulfil the service requirements
    - NSA versus SA network architecture
    - Handsets and terminals

Course program

- Unit 4: Technology features of 5G
  - Network slicing
  - NFV versus SDN
  - RAN virtualization
  - Mobile edge computing
  - 5G Air Interface:
    - Carrier bandwidth in 5G
    - Sub 6 versus mmW bandwidth
    - Modulation schemes in 5G
    - Massive MIMO and beamforming in 5G
    - 5G numerology
- Unit 5: 5G – Frequently Asked Questions

Course agenda

- Morning
  - Course introduction 10 min
  - Unit 1 60 min
  - Coffee break 15 min
  - Unit 2 45 min
  - Coffee break 15 min
  - Unit 3 60 min
- Lunch break 90 min
- Afternoon
  - Unit 4 – Part 1 45 min
  - Coffee break 15 min
  - Unit 4 – Part 2 45 min
  - Unit 5 30 min
  - Course evaluation 10 min

WELCOME !

We bring your ideas to life

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