Blockchain Foundation («BLOCKK»)

The Blockchain Foundation course provides an overview of this new and rapidly growing technology. At the same time, you will get prepared for the certification exam, which will take place at the end of the second day.

Duration: 2 days
Price: 2'400.–
Course documents: Official course material ICO-CERT

Content

Blockchain and its most famous application Bitcoin are on everyone's head. But what is exactly behind the Blockchain technology (Distributed Ledger Technology), which is seen as a disruption of various industries?

1st day

A Basic Problem – The Byzantine Generals
Clarification of important terms and procedures

- Fundamentals of IT Security
- Distributed Systems
- Distributed Ledger Technology and Blockchain
- The basic principle of a blockchain

2nd day

Cryptology – Cryptography, and Cryptanalysis

- Principle of Kerckhoff
- Symmetric Cryptosystem
- Asymmetric / Public-Key Cryptosystem
- Digital signatures and identities
- Cryptographic Hash Functions
- Anonymisation and pseudonymization
- Basic principle of the blockchain with signature

Key Learnings

- Basic understanding of the topic «Blockchain» (Distributed Ledger Technology) as well as the resultant applications by using the example of crypto currencies
- Understanding of the most important terms and procedures in the blockchain area
- Introduction to cryptology (cryptography and cryptanalysis) and the basics of digital currencies
- Basic knowledge of Smart Contracts on the Blockchain and an introduction to Initial Coin Offering (ICO)

Methodology & didactics

In didactic terms, the starting point of the training is the problem of the Byzantine generals. This forms the common understanding of the problem for a solution scenario with a blockchain. Based on these scenarios the problems occur and the solutions are worked out. Within this framework, existing basic information technology is always used and explained (e.g. hash functions, digital signature, etc.). The depth depends on the technical knowledge of the participants.

Target audience

This course is aimed at innovation managers, developers, CIOs, development managers, IT consultants, executive management and people who want to learn more about blockchain and distributed ledger technology.

Certification

The certification examination (multiple-choice test) is conducted by the international certification body «International Certification Organization» (ICO-CERT). **The exam is only provided online.** Participants have the choice of writing the exam immediately after the training or at a later date (30 days, 24/7). The exam links are valid for 30 days and can be extended once by the participants, but no earlier than 4 days before expiry and no later than 10 days after.

Examination

- Multiple-choice exam in German or English
- Duration: 45 minutes, no aids allowed
- Format: 30 multiple-choice questions with 3 possible answers each. One, two or all three answers can be correct.
- At least 18 of the 30 questions must be answered correctly in order to pass the examination.

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-digital-transformation-technologies/blockchain/course-blockchain-foundation