



Affidaty S.p.A.

**Contents from the training course and Open Source blockchain
T.R.I.N.C.I. - T2 certification
Level I**

Affidaty S.p.A informs that the training course will consist of 10 classes of 1 hour each, and that questions “in pill form” will be submitted at the end of each course. More specifically, they are going to cover:

- 1. Introduction to Blockchain**
- 2. Cryptography, security, decentralization**
- 3. Identità digitale sovrana in blockchain - 4ryA**
- 4. T2 - Architecture and operation**
- 5. T2 - Software/Hardware:**
- 6. SDK - Smart Contracts creation and management**
- 7. Custom asset and programmable currency - NFT**
- 8. Exchange Wow - Escrow**
- 9. Blockchain applied to the financial sector**
- 10. Business models in the Blockchain landscape and new trading opportunities**

Final test and “Partner “Affidaty - T2 Partner” certificate released *

*The certificate will be issued only after passing the final test

Florence, September 30th 2021

Introduction to Blockchain

- Blockchain “across the board”
- Where and how it was created
- What are the different types of blockchain, the most frequently used and why
- Trust and why place it in an innovative technology
- Cryptocurrencies and why they are used
- Smart contracts
- Tokens
- NFT

Cryptography, Security, Decentralization

- Cryptography
- Creation and management of keys (public and private)
- Distributed algorithms, consensus and Bizantine Fault tolerance
- Mining (applicable benefits)

Digital Sovereign Identity in Blockchain - 4ryA

- Key creation and management (public and private)
- Client and Server
- Webcomponent portable for integration
- Json file signature with p7m
- Digital identity for IoT systems, multiple subjects, robot. Ai and software
- Distributed registry

T2 - Architecture and Operation

- T.R.I.N.C.I.
 - Affidaty Blockchain Technology Provider
 - What is T.R.I.N.C.I. 2.0 (T2)
 - How T2 can differ from other blockchains
 - T2 Lib
 - What are its specific components:
 - HDSB (High Density Scoped Blockchain)
 - Cryptography “Galassi-Vignali in T2”
 - Mining (applicable benefits)
 - IndependentChain
 - SDK
 - How can be used
 - Open source features and implementation:
 - Collaborative spirit among Core developers: for your help is needed to help us develop it and advance in the TRINCI project.
 - Speed of use
 - Enhanced user experience
 - Reliability
 - Benefits in the short-medium-long term

T2 - Software and Hardware:

Software

- Cryptography
- Creation and management of keys (public and private)
- Core: Core-T2 features
- How to write a transaction
- HDSB
- SHDSB
- Wallet creation and management
- Consensus creation and management (“Proof of...”)

Lato Hardware

- Independent Chain
- Node creation and management (hardware and software associated)
- Physical node installation and management (WelcomeKit and/or Rack and/or Server and/or Virtual Machine, AWS)
- Computing power implementation and management
- Maintenance

SDK - Smart Contracts Creation and Management

- Smart Contract creation
- Basic principles on how to connect a platform/software to T2
- Integration stream
- How to write a transaction
- Custom Asset and Programmable currency creation
- Deploy new asset
- Basic examples:
 - Creating an asset in compliance with TAI (T.R.I.N.C.I. Asset Interface)
 - Creating a smart contract using TAI for basic escrow
- Advanced examples:
 - Vot8
 - Trust8

Custom asset and programmable currency - NFT

- TAI and programmable currency
- Programmable currency: GoGo Food ticket restaurant
- NFT

Exchange Wow - Escrow

- Exchange
- Escrow
- TAI and how to write a transaction
- Add and quote a programmable currency
- Pay Component
- Euro - Asset conversion
- Asset - Euro conversion

Blockchain applied to the financial sector

- Blockchain applied to macro-sectors:
 - Legal
 - Compliance
 - Economics and finance
 - Administrative/bureaucratic/ P.M.I.-P.A.
 - Trade & e-Commerce
- Why apply blockchain to the sector
- How to apply it
- Analysis on costs and revenue
- Case study
- Benefits on the short-medium-long term

Business models in the Blockchain landscape and new trading opportunities

- How to structure a project in Blockchain
 - Feasibility study
 - Planning
 - Legal area integration
 - Financial area integration
 - Assessment of the economic offer

