A Complete Beginners Guide to Blockchain Technology

#StartingBlock2015
Overview

Blockstrap workshops usually last 6-8 hours and are split over two courses.

The first course is a general introduction to blockchain technology (approx. 4-5 hours).

The second course is a hands-on guide to building an application using Blockstrap (approx. 1-2 hours).

Required Experience

Despite the sometimes complicated subject matter (cryptographic hashing, elliptic curves, etc.) the technical experience required to benefit from a Blockstrap workshop is pretty low.

No prior experience of blockchains is required, and everything is explained as we go along. If you have the technical expertise to develop an application or website, you have the experience to benefit from a Blockstrap workshop.

COURSE 1 – ABOUT BLOCKCHAINS

Each module is taught for approx. 45 mins followed by 10-15 mins of Q & A.

Knowledge gained in earlier modules is expanded upon in later modules.

Module 1 – Introduction & Background to Blockchains

- The concept of the world-wide ledger
- Distributed systems
- Technologies used within blockchains
- Developmental strategies for software developers

Module 2 – Blockchains 101
• How the blockchain works
• What’s in a block
• How the blocks fit together
• How we track/monitor and measure them

Module 3 – Transactions 101

• What’s a transaction
• How they get constructed
• How they get spent
• How they get redeemed

Module 4 – Mining

• How blocks get made
• How they get added to the chain
• The evolution of mining

Module 5 – Blockchains 102

• Concept of forks
• Implications of distributed mining

Module 6 – Transactions 102

• How to construct a transaction
• Creating and decoding signature strips
• How to store data in the blockchain

COURSE 2 - ABOUT BLOCKSTRAP

In addition to an introductory blockchains course, we also teach budding blockchain developers how to get started building their own applications using the Blockstrap stack.

This portion of the workshop covers a range of tutorials on the following elements:

• The Blockstrap API
• The Blockstrap Framework
• Our Example Applications