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All courses >  Learn Solidity

Learn

Master the fundamentals of Solidity - the defacto smart contract development language for EVM chains.

11 lessons

Intermediate skill level

Coding basics pre-req



Start course



Join 1K+ enrolled students

About the

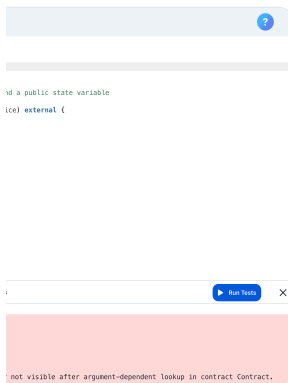
Learn Solidity syntax in this free course. You will learn modern Solidity best-practices using v0.8.20 and an in-browser coding environment. Complete the course by building real-world smart contracts such as a Voting Dapp or Escrow contract.

Skills you'll obtain

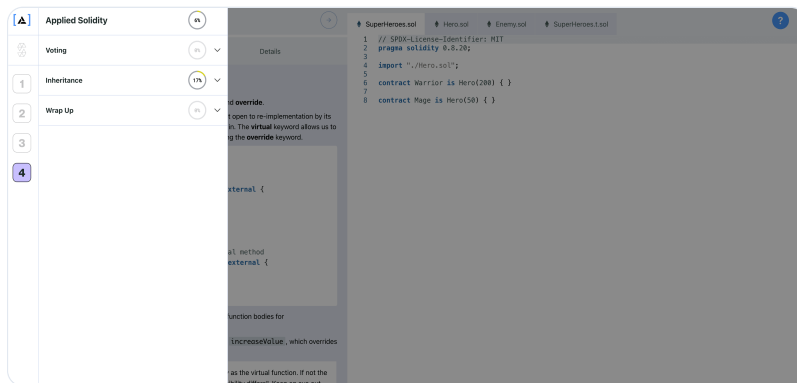
Master Solidity

Build Smart Contracts

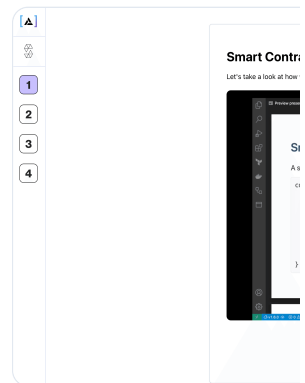
Real World Examples



Test cases



Build real-world projects



In-de

Why we

this course



I learned the skillset I needed to transition from web2 to web3 and it led directly to landing my dream job and helping secure the open economy.

Dan McKeon, @OpenZeppelin

Full Stack Ethereum Developer



As a self-taught coder, the course gave me the right base in solidity development, that I would've definitely squandered a couple years without.

Krishang N., @ThirdWeb

Founding Engineer

Syllabus

12 lessons | 15 videos

Solidity Introduction

Learn Smart Contracts and Basic Solidity Syntax

2 lessons 5 videos

Smart Contracts:

What are Smart Contracts? 



Course Overview

 **Smart Contracts Overview**

 **Value Types**

 **Practice Data Types**

Functions and Value Types:

Learn Integers, Booleans, Enums and Functions



 **Storage Variables**

 **Functions**

 **Practice Solidity Functions**

Address Interactions

Learn to Send Value and Data Across Addresses



4 lessons **4 videos**

Sending Ether:

Learn How to Send Ether



 **Message Calls**

 **Practice Sending Ether**

Reverting Transactions:

Learn What Happens a Transaction Fails



 **Reverting Transactions**

 **Practice Reverting Transactions**

Calling Contracts:

Communicate With Other Contracts



Calling Contracts



Practice Calldata

Escrow :

Build an Escrow Smart Contract



Escrow Explanation



Build an Escrow

Reference Types

What are the Solidity Reference Types?



3 lessons

3 videos

Arrays:

Learn How to Use Arrays



Arrays



Practice Arrays

Structs:

Learn How to Use Structs



Structs



Practice Structs

Mappings:



Learn How to Use Mappings

 **Mappings**

 **Practice Mappings**

Applied Solidity



Learning Real World Contracts

3 lessons **3 videos**

Voting:

Build a Voting Smart Contract



 **Voting Explanation**

 **Build a Voting Contract**

Inheritance:

Learn about Inheritance



 **Inheritance**

 **Practice Inheritance**

Wrap Up :

What Did You Learn?



 **Wrap Up Video**

 **Course Completion**

The web3 development platform



Products

Supernode
NFT API
SDK
Webhooks
Custom Webhooks
Websockets
Transfers API
Token API
Transact
Transaction Simulation
Account Abstraction
Spearmint

Community

Alchemy University
Web3 Jobs
Dapp Store
Overviews
Case Studies
WAGBI Grant
Newsletter
Blog

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Docs
Status
Sepolia Faucet
Mumbai Faucet
GWEI Calculator
Create Web3 Dapp
Smart Contracts
Chain Connect
Request a Chain

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