

C3 AI Academy

Flexible Training to Develop Enterprise AI Applications



The C3 AI® Application Platform offers a powerful, high-impact environment for creating Enterprise AI applications. To help developers, data scientists, administrators, and project personnel take advantage of these capabilities more quickly and robustly, the C3 AI Academy offers learning experiences that enable you to be successful, whatever your level of expertise.

Introductory courses expose students to core C3 AI Application Platform concepts and an overview of the development process. Intermediate classes teach students how to use the C3 AI Application Platform to build real machine learning applications and basic application building skills. These give a solid foundation to develop real value with the platform.

Later training builds on the foundation for students specializing in application development, machine learning,

user interface development, data integration, and data science. Small advanced topic courses allow learners to dig deep into those topics and learn specific skills.

We also offer courses for topics related to development and data science, like successfully managing an Enterprise AI program, the C3 AI Architecture, and The Citizen Data Scientist.

Most C3 AI Academy courses are graded on a capstone project that demonstrates real, independent work and confirms to the learner successful skill development. (We don't grade on written quizzes!)

Whatever you need to be successful with the C3 AI Application Platform, we have training to support you.

Delivery Options

The delivery options for C3 AI Academy courses can accommodate teams of all sizes and experience levels. We have designed our online and in-person C3 AI Academy courses to provide an equal learning experience. All courses include similar components in their design, which includes lectures, reading assignments, and hands-on coding practice. So whether you learn online at your own pace, in a virtual class, or in a real classroom led by one of our instructors you can be certain you will get the same high level of education and skills.

All of our online courses are available through our Developer Experience Portal. There you will find our classes, documentation and the C3 AI Community, where you can find answers to all of your questions. Our instructors constantly monitor the forum, and interact live during office hours. Office hours are posted in the C3 AI Community.

C3 AI Academy Course Catalog

C3 AI Application Development

This course is designed for application developers, teaching the fundamental skills required to build metrics and models in the C3 Type System.

Learning Modules

- Introduction and Tool Setup
- Build and Populate Data Schema
- Work with Timestamped Data
- Metrics
- Package Dependencies
- Build Methods for Types
- Build Data Flow Events and Analytics

C3 AI Cornerstone

The C3 AI Cornerstone course is for those who want to understand what C3 AI is and what the C3 AI Application Platform can do. In this course you will learn about Digital Transformation, the C3 AI Application Platform architecture, and how data science work happens on the C3 AI Application Platform.

Learning Modules

- The Promise of AI: Digital Transformation
- Successful Digital Transformation with C3 AI
- The Crucial Role of Leaders

C3 AI Data Integration

C3 AI Data Integration gives you the skills for ingesting data in the C3 AI Application Platform. This includes import and monitor data processing from files, streaming Cloud messaging systems, and relational and NoSQL database systems.

Learning Modules

- Introduction and Tool Setup
- Build and Populate Data Schema
- Work with Timestamped Data
- Monitor File Data Load

C3 AI Application Development Methodology

The C3 AI Application Development Methodology course essentially 'reads between the lines' and dives into some of the common failure points in an Enterprise AI implementation. Through engaging activities we show how to make an implementation successful.

Learning Modules

- Assemble the Team
- Plan the Program
- Specify Your Product
- Build & Operate
- Culture Shock

C3 AI Data Science

This course is designed for data scientists and dives into doing data science on the C3 AI Application Platform with Python and Jupyter notebooks and easily deploying your models to production.

Learning Modules

- Introduction to C3 Data Science Course
- Introduction to C3 Server and Type System
- Business Use Case and the Course Package
- C3 AI Type System Meets Python and Jupyter
- Feature Engineering with Metrics
- Machine Learning Pipelines
- Distributed Processing Deep Dive
- Machine Learning Experimentation
- Machine Learning Model Deployment

C3 AI Expression Engine Functions

This course is designed to get customers and new hires more comfortable using the platform after completing Development Core, while also exploring common Expression Engine Functions. The follow topics are discussed with video demos:

Learning Modules

- Expression Engine Functions in Transforms and Prototyping in Console
- dateTime formatting and timeZone field in Transforms
- Exploring Your Data using count, latestValue and latest
- Detailed Analysis of SwitchCountPreviousWeek and Bindings
- TimeseriesDataPoint: avg and sum Expression Engine Functions and Treatment
- TimedDataPoint: avg and sum Expression Engine Functions and Treatment

C3 AI Academy Course Catalog (continued)

C3 AI UI Framework

This course is designed for application developers who need to go beyond the default configurable web components.

Learning Modules

- Navigation Schema
- Using Data in Context in Components
- Components Interactions and Dynamic Components
- Themes

The Citizen Data Scientist in 30 Days

This course is designed to allow individuals who have a strong background in reporting and analytics (think Microsoft Excel and Power BI) to become Citizen Data Scientists.

Learning Modules

- Think Like a Data Scientist
- What Questions Do You Want To Answer?
- Using Data
- Anything Excel Can Do, Ex Machina Can Do Better
- How Do You Implement Your Questions?
- Analyze Your Data
- Train, Predict, Tune
- Output & Visualize

Coming June 2022

C3 AI Reliability: Model your World with Data

In this course you will learn how to model your assets in the C3 AI Reliability application. This includes how to use Process Flow Diagrams (PFDs) to choose the levels of asset hierarchy required to accurately model system operations and use Piping and Instrumentation Diagrams (P&IDs) to map sensor IDs to the asset model. We also discuss best practices to load historical and live sensor measurements and validating asset hierarchy and sensor data. *This course requires a minimum version of 7.33.*

Learning Modules

- Populate Relational Data Model
- Load Time Series Data
- Validate Data Model Population

C3 AI UI Framework Part II

This is a continuation of the C3 AI UI Framework Series, and picks up where the original course left off. In this course we dig deeper into React and Redux, modals and epics.

Learning Modules

- Welcome
- React and Redux Primer
- Delete and Delete with Confirmation Modal
- Editing Fields and Adding Comments
- Trigger Server Actions with Confirmation Banner
- React Components
- Conditional Renderer
- Create Method for Custom dataSpec

C3 AI Application Platform Architecture

This course is designed as a brief technology introduction for all new C3 AI hires. It is suitable for a non-technical audience, and is based upon the assumption that all employees should be able to describe our technology in basic terms to anyone. We explain things in simple terms anyone can understand.

Learning Modules

- Technology 101
- ML Platforms
- The Need for a New Abstraction
- Application Building Blocks

Coming June 2022

C3 AI Reliability: Data Science

This course teaches data scientists how to utilize the prognostics approaches implemented in the C3 AI Reliability Application. In this course, you:

- use the C3 Python SDK to interact with a deployed C3 AI Reliability Application using Jupyter notebooks.
- analyze sensor data and curate a dataset to train, test, and deploy semi-supervised machine learning models which can be used to monitor the health of the asset.

This course requires a minimum version of 7.33.

Learning Modules

- C3 AI Type System Meets Python and Jupyter
- Creating Timeseries and Manipulating Data with Metrics
- Prepare and Explore Your Data
- Select Your Features
- Develop Your Machine Learning Model
- Deploy Your Model with C3 AI Model Deployment Framework

C3 AI Academy Course Catalog (continued)

Coming June 2022

C3 AI Reliability: Boosting the User Experience

This course teaches learners how to extend their C3 AI Reliability Application and UI. Based on a sample use case, the learners practice extending an application and UI to:

- provide a graphical representation of asset health
- configure new or modify existing KPIs and display them in UI
- enable the end users to upload, view/download images and pdf files
- enable the end users to open cases from an analysis page
- enable the end users to manage email subscriptions

Learners can take this course only after completing the C3 AI Application Development course. *This course requires a minimum version of 7.33.*

Learning Modules

- Upload Asset Related Images and PDF Files via Reliability UI
- Graphical Representation of Asset Health in UI
- Creating KPIs and Displaying them in the UI
- Opening Cases from the Reliability Analysis Page
- Configuring Alert E-mails