**Day one**

Fundamentals of APIs with Edge

WHAT YOU WILL LEARN: Learn the foundational elements of API design and then dive into the fundamentals of Edge. You will learn best practices in API Design, the features and functions of API Proxy elements and you will build your first policy in Edge.

TOPICS:

* Apigee Platform Overview
* Best practices in RESTful API Design
* Key API Concepts   
  + Anatomy of a Proxy
  + Connectivity
  + Basic security
* Lab

**Day two**

Protecting your API: Implementing Security and Authentication in Edge

WHAT YOU WILL LEARN: Learn how to leverage Apigee’s security policies to protect your APIs from traffic spikes, denial of service attacks, content-level attacks and more.

TOPICS:

* API Management and API Key Validation
* Protection against Content-based Attacks
* Authentication, Authorization and Identity
* Traffic Management
* Other Security Considerations
* Lab

**Day three**

Further exploration into policy application and function

WHAT YOU WILL LEARN: Learn and apply advanced topics using common patterns used to create API Proxies.

TOPICS:

* Protocol Conversions, target servers
* Caching
* Content Validation
* Custom Javascripts
* API BaaS
  + Environments and Security
  + Data Storage
* Lab

**Day four**

Converting, caching and analyzing your APIs

WHAT YOU WILL LEARN: Learn how to make the most of your API proxy using cache and analytics and then create and query collections, entities and connections queries using data modelling best practices on BaaS.

TOPICS:

* Protocol Conversions
* Caching
* Custom Analytics
* API BaaS advanced topics
  + Environments and Security
  + Data Storage
* Lab

**Day five (Elective 1)**

Using Node.js in Apigee Edge

WHAT YOU WILL LEARN: At the conclusion of this course, you should have the knowledge and tools to create robust Node.js APIs within the Apigee ecosystem.

TOPICS:

* API Facades
* Swagger and creating proxies using swagger.
* Mashups
* Scripting
* Lab