

## Create and Secure and Publish APIs with IBM API Connect 10

**Duration: 5 Days**    **Course Code: WD515G**    **Delivery Method: Virtual Learning**

### Overview:

This course teaches you how to configure a newly built API Connect 10 environment. You are taught how to configure a catalog with the gateway, portal, and analytics services and set up the environment for API development. You then define API interfaces according to the OpenAPI specification. You build SOAP and REST based APIs along with a GraphQL API. You assemble message processing policies and define client authorization schemes, such as OAuth 2.0, in the API definition. You verify the proper sequencing of policies in the assembly tester and further test your APIs in the new Test tab and Local Test Environment. After building and testing your APIs, you publish them and make them available on the Developer Portal. You manage all aspects of the provider organization in the API Manager user interface to create, publish, version, and retire API artifacts such as products, plans and APIs themselves. You also learn how to manage consumer organizations who use the APIs that are made available on the Developer Portal. You learn how to add members to the consumer organization that provides access to the APIs on the Developer Portal. You learn how the layout of the Developer Portal can be customized. Finally, you call the APIs on the secure gateway and you view the graphs and metrics of API usage.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

This course is designed for API developers.

### Objectives:

- After this course participants should be able to:
- Configure services in Cloud Manager for an on-premises installation of API Connect
- Create a catalog and Developer Portal
- Create consumer and provider organizations
- Create, test, and publish SOAP, REST, and GraphQL APIs
- Create message processing policies that transform API requests and responses
- Authorize client API requests with security definitions
- Enforce an OAuth flow with an OAuth 2.0 API security provider
- Perform advanced testing of APIs by using the Test tab and the Local Test Environment
- Define products and plans in API Manager
- Stage, publish, version, migrate, deprecate, and retire products and APIs
- Manage member roles and permissions in the Developer Portal
- Create an application and subscribe to a plan
- Review API analytics in the Developer Portal
- Review analytics dashboards and visualizations in API Manager
- Customize the Developer Portal

### Prerequisites:

- Basic understanding of web services and protocols
- Basic understanding of application programming
- Conceptual knowledge of APIs
- Basic understanding of Red Hat Linux

## Content:

Introduction to IBM API Connect V10	Declaring client authorization requirements	Exercise: Define and publish an API product
Exercise: Reviewing the API Connect development and runtime environments	Creating an OAuth 2.0 provider	The product lifecycle
Managing catalogs and organizations	Exercise: Implementing OAuth 2.0 security	Exercise: Subscribing and testing APIs in the Developer Portal
Exercise: Managing catalogs and consumer organizations	Testing and debugging APIs	Exercise: Managing and approving API Products
Defining APIs in API Manager	Exercise: Introduction to the Test tab	Subscribing and testing APIs in the Developer Portal
Exercise: Defining an API that calls an existing SOAP service	Creating and testing a GraphQL API	API Analytics
Defining a REST API in API Manager	Exercise: Creating and testing a GraphQL API	Exercise: Calling an API on the gateway and monitoring API usage
Exercise: Defining a REST API from a target service	Testing an API in the Local Test Environment	Customizing the Developer Portal
Assembling message processing policies	Exercise: Testing an API in the Local Test Environment	Exercise: Customizing the Developer Portal
Exercise: Assembling message processing policies	Publishing and managing products and APIs	

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## Additional Information:

Official course book provided to participants

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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