

Module 1: Introducing API-Led Connectivity

- Identify the problems faced by IT today
- Describe what API-led connectivity is and its benefits
- Explain what web services and APIs are
- Explore API directories and portals
- Make calls to secure and unsecured APIs
- Introduce API-led connectivity with Anypoint Platform
- Explore Anypoint Platform

Module 2: Designing APIs

- Define an API with RAML, the Restful API Modeling Language
- Mock an API to test its design before it is built
- Create a portal for developers to learn how to use an API
- Make an API discoverable by adding it to the private Exchange

Module 3: Building APIs

- Introduce Mule applications, flows, messages, and message processors
- Use Anypoint Studio to create a flow graphically
- Build, run, and test a Mule application
- Use a connector to connect to a database
- Use the graphical DataWeave editor to transform data
- Create a RESTful interface for an application from a RAML file
- Connect an API interface to the implementation

Module 4: Deploying and Managing APIs

- Describe the options for deploying Mule applications
- Use properties in Mule applications so they can be easily moved between environments
- Deploy a Mule application to the cloud
- Create and deploy a proxy for an API in the cloud
- Restrict access to an API proxy
- PART 2: Building Applications with Anypoint Studio

Module 5: Accessing and Modifying Mule Messages

- Log message data
- Debug Mule applications

Read and write message properties
Write expressions with Mule Expression Language (MEL)
Create variables

Module 6: Structuring Mule Applications

Create and reference flows and subflows
Pass messages between flows using the Java Virtual Machine (VM) transport
Investigate variable persistence through subflows and flows and across transport barriers
Encapsulate global elements in separate configuration files
Explore the files and folder structure of a Mule project

Module 7: Consuming Web Services

Consume RESTful web services with and without parameters
Consume RESTful web services that have RAML definitions
Consume SOAP web services
Use DataWeave to pass parameters to SOAP web services

Module 8: Handling Errors

Describe the different types of exception strategies
Handle messaging exceptions in flows
Create and use global exception handlers
Specify a global default exception strategy

Module 9: Controlling Message Flow

Route messages based on conditions
Multicast messages
Filter messages
Validate messages

Module 10: Writing DataWeave Transformations

Write DataWeave expressions for basic XML, JSON, and Java transformations
Store DataWeave transformations in external files
Write DataWeave transformations for complex data structures with repeated elements
Coerce and format strings, numbers, and dates
Use DataWeave operators

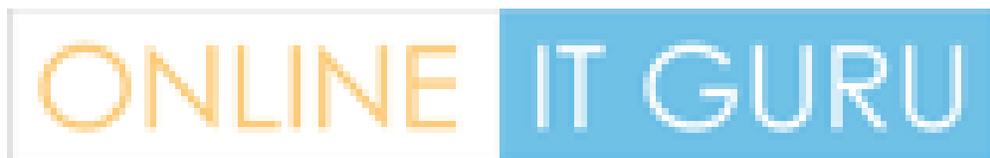
Define and use custom data types
Call MEL functions and Mule flows from DataWeave transformations

Module 11: Connecting to Additional Resources

Connect to SaaS applications
Connect to files
Poll resources
Connect to JMS queues
Discover and install connectors not bundled with Anypoint Studio

Module 12: Processing Records

Use the For Each scope to process items in a collection individually
Use the batch job element (EE) to process individual records
Trigger a batch job using a poll
Use a batch job to synchronize data from a legacy database to a SaaS application



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