**Module 1: Develop for asynchronous processing**

Lessons

* Implement parallelism multithreading and processing
* Implement Azure Functions and Azure Logic Apps
* Implement interfaces for storage or data access
* Implement appropriate asynchronous computing models

After completing this module, students will be able to:

* Learn to develop for asynchronous processing and how to implement the appropriate asynchronous compute model.

**Module 2: Develop for autoscaling**

Lessons

* Implement autoscaling rules and patterns
* Implement code that addresses singleton application instances
* Implement code that addresses a transient state

After completing this module, students will be able to:

* Implement autoscaling in your solution and implement code that addresses transient state.

 **Module 3: Develop long-running tasks**

Lessons

* Implement large scale parallel and high-performance apps by using batches
* Implement resilient apps by using queues
* Implement code to address aplication events by using webhooks
* Address continuous processing tasks by using Azure WebJobs

After completing this module, students will be able to:

* Discover how to implement large-scale, parallel and high-performance apps by using batches.

**Module 4: Implement distributed transactions**

Lessons

* Identify tools to implement distributed transactions
* Manage the transaction scope
* Manage transactions across multiple databases and servers

After completing this module, students will be able to:

* Learn to implement, and manage, distributed transactions.

**Module 5: Enable the search of textual content**

Lessons

* Create an Azure Search index
* Import searchable data
* Query the Azure Search index by using code

**Module 6: Instrument an app or service and implement logging**

Lessons

* Configure instrumentation in an app or service

Configure the logging service