**Familiarize yourself with the course**

**Weekly Road-map and Resources:**  
**Looking for how to progress through the course? You have options!**

**Roadmap of Week 1 - Introduction to DevOps & Agile**

[**Understand the concepts and necessities of DevOps**](https://cmooc.cognizant.com/mod/url/view.php?id=10745)

**Learning Objective:**

* Define what is DevOps and what is NOT DevOps
* Explain the need of DevOps and its stakeholders
* Define the DevOps business values
* Explain how DevOps helps enterprise projects
* Explain the DevOps goals and benefits
* Comprehend how automation enables the DevOps
* Explain how to adopt a DevOps culture
* Explain Scaling DevOps and security
* Define how you measure DevOps success

[**Understanding the relationship between Agile and DevOps**](https://cmooc.cognizant.com/mod/url/view.php?id=10750)

**Learning Objective:**

* Define where DevOps and Agile can intersect
* Explain how DevOps delivers the Agile promise
* List how DevOps and Agile are different
* Define the relationship between Agile and DevOps

**Roadmap of Week 2 - DevOps in Application Development, Maintenance & Support**

[**Impact of DevOps in Application Development**](https://cmooc.cognizant.com/mod/url/view.php?id=10752)

**Learning Objective:**

* Explain the stages in setting up a DevOps environment
* List the challenges in DevOps Implementation
* Explain the Impact of DevOps on infrastructure team
* Explain how to remake the infrastructure services to make most of the DevOps
* Explain how DevOps provide a solution to traditional software development

[**Impact of DevOps in Application Maintenance & Support**](https://cmooc.cognizant.com/mod/url/view.php?id=10753)

**Learning Objective:**

* Explain the current state of DevOps in Application Maintenance and Support
* List the DevOps production operation challenges
* Explain the DevOps environment management solution
* Explain the Intersection of DevOps and ITIL Service Life Cycle
* Explain why DevOps approach adds value to ITIL
* Define how DevOps operate in service operations
* Define how the DevOps address the needs of production operations

**Roadmap of Week 3 - DevOps Process**

**Introduction to our Building Blocks - ECD, SE, ERM, FA**

**Learning Objective:**

* List the DevOps offering available in Cognizant
* Detail out the Different DevOps building bocks

[**Continuous integration (CI)**](https://cmooc.cognizant.com/mod/url/view.php?id=10760)

**Learning Objective:**

* Explain what CI is from DevOps perspective
* Explain why CI is more important
* Define the prerequisite required for CI
* List the different stages involved in Continuous Integration
* List the key tools used to implement the CI
* Explain how different steps are integrated with CI tools
* List the challenges in implementing CI
* List the benefits and best practices of CI

[**Deployment & Release Automation**](https://cmooc.cognizant.com/mod/url/view.php?id=10761)

**Learning Objective:**

* Explain what drives effective Release and Deployment
* List the four pillars of Gold Standard Deployment
* Defining roles and identifying changes in responsibilities
* Explain which Deployment Automation Solution is right for you
* Explain the tools specific to Deployment and Release Automation
* Explain the best practices for Deployment Automation and Release Management

**Roadmap of Week 4 - DevOps in Operation**

[**Infrastructure Automation**](https://cmooc.cognizant.com/mod/url/view.php?id=10762)

**Learning Objective:**

* Explain what is [Infrastructure Automation](https://cmooc.cognizant.com/mod/url/view.php?id=10762)
* Explain how [Infrastructure Automation](https://cmooc.cognizant.com/mod/url/view.php?id=10762) will help DevOps
* Define why [Infrastructure Automation](https://cmooc.cognizant.com/mod/url/view.php?id=10762) is required
* Explain the evolution of IT Infrastructure
* List the challenges in providing IT Infrastructure Services
* Explain the Future State of IT Infrastructure Services

[**Release automation and Orchestration overview**](https://cmooc.cognizant.com/mod/url/view.php?id=10763)

**Learning Objective:**

* Explain what is Release Automation and Orchestration
* Explain why we require Release Automation & Orchestration
* Define how to implement Release Automation and Orchestration
* List the key focus areas in Enterprise Release Management
* List the Recommendation for successful Release Automation and Orchestration

[**IT infrastructure monitoring (ITIM) & Log management**](https://cmooc.cognizant.com/mod/url/view.php?id=10764)

**Learning Objective:**

* Explain what is ITIM
* List the Demand for ITIM
* List the ITIM offerings
* Explain the ITIM vendor landscape
* Explain the ITIM tool evaluation
* Explain the Log Management & Its necessities
* Explain how Log Management can help DevOps?
* List the benefits of Log Management
* Explain the Automated Log Analytics for DevOps

[**Industry acclaimed customer experience & case studies**](https://cmooc.cognizant.com/mod/url/view.php?id=10765)

**Learning Objective:**

* The case studies will explain in detail about the DevOps real time business scenarios

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