

uCertify

Course Outline

IT Interview Guider for Freshers



26 Apr 2025

1. Pre-Assessment
2. Exercises, Quizzes, Flashcards & Glossary
Number of Questions
3. Expert Instructor-Led Training
4. ADA Compliant & JAWS Compatible Platform
5. State of the Art Educator Tools
6. Award Winning Learning Platform (LMS)
7. Chapter & Lessons
Syllabus
Chapter 1: Preface
Chapter 2: Introduction
Chapter 3: Written Tests and Group Discussions
Chapter 4: Interview Preparations
Chapter 5: Data Structures and Algorithms
Chapter 6: Operating System
Chapter 7: Object-Oriented Programming (OOPs)
Chapter 8: C and C++ Programming
Chapter 9: Java Programming
Chapter 10: Database Management System
Chapter 11: Trending Languages- Python and R Programming
Chapter 12: Methodologies and Processes
Chapter 13: HR Round
Videos and How To
8. Practice Test
Here's what you get
Features
9. Performance Based labs
Lab Tasks

Here's what you get

1. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

2. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

3. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

4. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade

scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

5. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
 1. Best Postsecondary Learning Solution

- **2015**
 1. Best Education Solution
 2. Best Virtual Learning Solution
 3. Best Student Assessment Solution
 4. Best Postsecondary Learning Solution
 5. Best Career and Workforce Readiness Solution
 6. Best Instructional Solution in Other Curriculum Areas
 7. Best Corporate Learning/Workforce Development Solution

- **2016**
 1. Best Virtual Learning Solution
 2. Best Education Cloud-based Solution
 3. Best College and Career Readiness Solution
 4. Best Corporate / Workforce Learning Solution
 5. Best Postsecondary Learning Content Solution
 6. Best Postsecondary LMS or Learning Platform
 7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

6. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Preface

Chapter 2: Introduction

- Fresher's interview process (stages)
- Career path for freshers/software engineers
- Conclusion

Chapter 3: Written Tests and Group Discussions

- Written test
- Group discussion stage
- Just a Minute (JAM)
- Conclusion

Chapter 4: Interview Preparations

- Guidelines—Before the interview
- Guidelines—During the interview
- Guidelines—After an interview
- Common interview mistakes and ways to avoid them
- Conclusion

Chapter 5: Data Structures and Algorithms

- Concepts
- Collections
- Algorithms - Sorting and Searching
- Miscellaneous
- Conclusion

Chapter 6: Operating System

- Concepts
- Process management
- Memory and file management
- Multithreading and synchronization
- Miscellaneous
- Conclusion

Chapter 7: Object-Oriented Programming (OOPs)

- Concepts
- Encapsulation

- Composition and inheritance
- Polymorphism
- Miscellaneous
- Conclusion

Chapter 8: C and C++ Programming

- C programming
- C++ programming
- Conclusion

Chapter 9: Java Programming

- Core concepts
- Keywords and operators
- Classes, interfaces, constructors, and destructors
- Inheritance and polymorphism
- Miscellaneous
- Conclusion

Chapter 10: Database Management System

- Concepts
- Keys and constraints
- SQL commands: insert, update, and delete
- Miscellaneous
- Conclusion

Chapter 11: Trending Languages- Python and R Programming

- Python programming
- Conclusion

Chapter 12: Methodologies and Processes

- Software development methodologies - Agile and Scrum
- DevOps
- Software quality
- Configuration management
- Microservices and SOA
- Conclusion

Chapter 13: HR Round

- Goals and objectives
- Confidence
- Question bank
- Things never to say during an interview
- Conclusion

7. Practice Test

Here's what you get

Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

8. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

Lab Tasks

Here's what you get

You can't stay away! Get

 3187 Independence Drive
Livermore, CA 94551,
United States



+1-415-763-6300



support@ucertify.com



www.ucertify.com