The Real reward is making H2KInfosys Students Happy by providing best hands on IT Training. The real world competition pushes us to innovate new methods and processes towards training improvements. It keeps us focused on delivering only the best knowledgeable student in multiple skills to compete with others to successfully find the QA job. Competition drives H2K Infosys to lead the way with forward thinking green initiatives.
Learning is the beginning of wealth. Searching is the beginning of spirituality. Searching and Learning is where the miracle process all begins at H2K Infosys. Dream, Strive & Achieve the Victory by attending I.T. trainings from H2K Infosys

Question 1: What is the goal of student who enrolls for this course?
A) Improve skills and find better job and increase salary in Software QA Testing.
B) Find new job in Software QA Testing.

Question 2: What we provide at H2K Infosys to compare with any other training center in the world?

Training Highlights

- Instructor Led – Face2Face True Live Online class
- More interaction with student to faculty and student to student.
- Detailed presentations. Soft copy of Materiel to refer any time.
- Practical oriented / Job oriented Training. Practice on Software Tools & Real Time project scenarios.
- Weekly mock interviews / group discussions / interview related questions.
- Test Lab is in Cloud Technology – to practice on software tools.
- Pay one time fee & repeat attending classes multiple times until student is comfortable with every topic. This feature is helpful to students who are new to I.T. Field. Depends on the batch schedule and student convenient, Student can repeat Weekend or Weekday batch.
- QA Testing training is 80+ hours.
- We discuss about the real time project domains in Banking/Financial, Telecom, Supply Chain Management, CRM, Health care and other domains.
- We provide Recorded Videos for every class to review before and after the live class.
- The teaching methods / tools / topics we chosen are based on the current competitive job market.

Module 1: Manual Testing
   Software Testing Life Cycle – SDLC - Waterfall vs. Agile
   QA Tester Role - Test Metrics - Types of Testing
   Software Testing Life Cycle – STLC & Defect Life Cycle
   Testing Methodologies, Software Testing process
   Test case, Test plan, RTM, Defect tracking,
   Home works / Off line student assignments.
   Telecom, Banking, HealthCare, Supply chain domains.
   Role of QA, BA, Developer, Technical Architects etc.

Module 2: HP Quality Center - ALM for Test management/ Defect Tracking

Module 3: SQL (Database / Back End Testing)

Module 4: UNIX / Linux Operating System / Backend Testing

Module 5: HP QTP (Quick Test Professional) for Automation Testing

Module 6: HP Loadrunner for Performance Testing

Module 7: Review & questions on all topics, Configuration Management,
   CMMI, Six Sigma principles, Regulatory compliance
   Requirement (e.g. Sarbanes Oxley, HIPPA-Medical related)
   Interview Questions. How to prepare professional resume?

Module 8: IBM Mainframe Testing

Module 9: SAP Testing (Sales & Distribution (SD), Production Planning or CRM
   Or any one of the SAP )

Module 10: WebServices ( SOA ) Testing using SoapUI tool

Module 11: Concepts of what is ETL and Data warehouse Testing

Module 12: IBM Rational Quality Manager (RQM) Tool ( It was Rational Test Manager)
# Topic wise Course Details

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<tr>
<th>Module</th>
<th>Topic</th>
<th>Manual Testing</th>
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<td>Module - 1</td>
<td>Telecom Domain Project</td>
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<tr>
<td>Session - 1</td>
<td>Application / Project Architecture</td>
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<td>SDLC – Software Development Life Cycle</td>
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<td>Waterfall, Agile, SCRUM, Sprint, User Stories etc.</td>
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<td>Introduction to software Quality Analysis &amp; Testing, Role of a Tester</td>
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<td>Why QA team is required. Testing Process(STLC), test cases ,Test Data,</td>
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<td>Types of software Applications, Windows based, web based etc.</td>
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<td>Different types of testing methodologies</td>
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<td>Practice - Group Discussion</td>
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<td>Session - 2</td>
<td>Types of Testing, Unit testing, functional testing, integration test, Regression Test, System Testing, Smoke Testing, Data Driven Testing</td>
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<td>Session - 3</td>
<td>QA Tester Role – Software Testing Life Cycle</td>
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<td>Understanding the requirement document and writing Test cases in Excel, Writing Test Data,</td>
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<td>Practice - Group Discussion , Domain related discussion on Banking, Mobile/Telecom, Supply chain, Healthcare</td>
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| 4       | How to write Test Cases on Telecom, Health care projects, Prepare RTM and test matrices.  
Boundary Value analysis.  
Review Test cases written by students. |
| 5       | How to write Test Plan >> Objective, Scope and Strategy of the test plan.  
Entry and Exit criteria. Testing Techniques.  
Home Assignments and also Practice sessions in class. |
| 6       | Review Test Plan and Test cases.  
Discuss Defect Life Cycle while teaching Quality center Defect module  
What is clustering, Load Balancer, Front end, Back End, Middle ware, etc., about Project and Application architecture, External Systems etc.  
High Availability / Clustering – HA Testing (other training centers do not cover this topic) |
| 7       | Installation instructions and resolving the Quality center installation issues on student’s computer. |
| 8       | HP Quality center Installation Issues.  
NOTE: Discuss about Banking Domain when we write requirements.  
Introduction to Quality Center. How to Manage testing Process using HP Quality Center.  
Advantages of Quality Center Over Excel Sheet.  
Requirements Module: Write Requirements on Banking / Finance Domain Project  
Test Plan Module: Based on the requirement write Test Plan, Test Cases and RTM – Requirement traceability Matrix  
Home work Assignments and Practice sessions in class and resolve student’s questions. |
| 9       | Review of Home Work Assignment  
Test Lab Module: Based on Test plan execute the Test cases and file Defects  
Defects Module: |
| 10      | Export Test cases from Excel sheet to Quality Center.  
Export Data from Quality Center to Excel.  
Overview of BPT, Resources & Reports - Graphs Module. |
| 11      | What is Database?  
What is RDBMS – Relational Database Management System?  
What are the RDBMS currently available in the Market?  
What is SQL?  
What is Data Definition Language (DDL)  
What is Data Manipulation Language (DML)  
What is Data Control Language (DCL)  
Write different types of SQL queries with examples?  
Home work/ Assignments  
Role of tester in SQL? |
| Session - 12 | Different types of Functions, Arithmetic, logical, etc...  
Primary Key, Foreign key constraint.  
What are types of SQL Joins and Execute Joins with examples?  
How to perform JOIN?  
Join | Inner Join, Outer Join, Self Join, Right Join | Right Outer Join, Left Outer Join | Left Join  
SQL Group By Statement  
SQL Having clause  
Working with Toad Tool – To Execute SQL queries – Toad tool is an interface to connect to Database. |
| --- | --- |
| Module – 4 | UNIX / Linux Operating System  
**Session - 13**  
Install tools “Putty” and Cygwin  
Introduction to UNIX / Linux: What is UNIX Operating System? and Tester role in UNIX  
Important UNIX commands  
What is FTP? FTP Commands, FTP tools like Filezilla, WinScp etc.  
FTP the files from one operating system to another.  
Practice on UNIX / Linux  
Interview Questions on Unix / Linux. |
| Session - 14 | What is shell script? VI Editor?  
How to execute Shell script.  
What is Log file?  
How to ftp log files to windows OS and send it to developers to track the defects  
How to practice Linux commands using Cygwin |
| Module - 5 | QTP-Automation Testing  
**Session - 15**  
QTP installation Issues  
**Session - 16**  
Benefits of Automation Testing  
Benefits of Manual Testing  
Introduction to QTP, Recording types, Active screen, Keyword & Expert View  
Practice |
| Session - 17 | Plan/Create/Enhance Scripts  
Active X Controls  
Record and Playback  
Add-in-Manager - Java, Windows, Web, SAP, .Net, MainFrame, etc  
Active Screen Uses  
Parameterization  
Practice |
| Session - 18 | SystemUtil.Run() Functions to open the application (Windows\Web)  
Work on Windows/ web Applications  
Keyword View & Expert View  
Regular Expressions |
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<td>Object Spy</td>
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<td>Object Repositories</td>
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<td>Types of Recording Modes</td>
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<td>Practice</td>
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<th>Session– 20</th>
<th>Calling Existing Actions/ Splitting Actions</th>
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<tr>
<th>Session– 21</th>
<th>Introduction to Automation Framework</th>
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<td>Introduction to VB Script</td>
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<td>How to Enhance VB Script, Write functions, Sub Procedures and call the function / sub in another script</td>
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<tr>
<th>Session– 22</th>
<th>How to Integrate QC to QTP and How to Execute QTP Scripts from QC</th>
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<td>Interview Questions</td>
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<td>Practice</td>
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**Module – 6  HP LoadRunner – Performance Testing**

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<th>Session– 23</th>
<th>LoadRunner software Installation.</th>
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<tr>
<td></td>
<td>LoadRunner is an Performance Testing tool that allows you to test the performance/load of the application before, during, and after deployment. This course is designed to give you training in load and performance testing tasks. The LoadRunner Virtual User Generator (VUGen), Controller and Analysis (Report tool) will be covered in this course. You will create VuGen script to create actions and run load test scenarios using the Controller. The Analysis is used to analyze load / performance test results. You will learn to work with the graphs to display data after a test is run. All topics are supported by hands-on labs designed to provide you with the knowledge necessary to load test the system using LoadRunner. You also practice on the Loadrunner to get hands on experience.</td>
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| Session– 25 | VUser Scripts: Parameterization Actions Run time options Automatic Correlation |
| Session– 26 | Controller: Manual Scenario/Goal-oriented Scenario – How to choose between the two? Ramp Up, Ramp Down etc., Settings, how to run the VUser Scripts  
Analysis: How to analyze reports, Reports: Generate Reports (Word / HTML) |
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<td>Module – 7</td>
<td>Review All the sessions and Focus on CMM, configuration management and other quality controls, Resume building</td>
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</table>
What is clustering, Load Balancer, Front end, Back End, Middleware, etc., about Project and Application architecture.  
Concepts of Configuration management, Change management, Project release documents etc.  
Concepts of What is Cluster, What is HA (High Availability Testing), Integration Testing with external systems  
Discuss Interview prep, How to build Resume |
| Module - 8 | IBM Main Frame Testing |
| Session– 29 | Introduction To Mainframe  
History of Mainframe  
Advantages  
Differences from PC  
Differences from DB, AS400  
Industry Solutions  
Role of Mainframe tester  
Architecture  
General Access  
Important Transaction Codes  
TSO & ISPF Fundamentals  
Definitions  
General Access  
Jobs, tasks, Transactions  
ISPF Menu Structure  
ISPF Menu Settings  
Edit  
View |
| Session - 30 | Utilities  
|             | Batch  
|             | SDSF  
|             | Changing log/list settings  
|             | ISPF commands  
|             | Creating a data set  
|             | Editing a data set  
|             | Deleting a data set  
|             | Printing a data set  
|             | JCL - Job Control Language  
|             | Command  
|             | Create  
|             | Submit  
|             | Abend  
|             | Batch jobs  
|             | Command  
|             | Create  
|             | Submit  
|             | Abend  
|             | CICS Overview  
|             | Definition  
|             | Functions  
|             | Components  
|             | General Access  
|             | Menu Structure  
|             | screens  
|             | Relation with submitting jobs  
|             | Tools used with Mainframe  
|             | Interview Related Questions |

| Session - 31 | Business Process & Accounting Fundamentals  
|             | Introduction  
|             | Overview  
|             | Modules  
|             | Module Integration  
|             | Industry Solutions  
|             | SAP Implementation Methodology  
|             | System Landscape  
|             | Project Teams  
|             | Levels of Customization  
|             | General Access  
|             | SAP Data  
|             | Important Transaction Codes |

| Session - 32 | SAP Fundamentals  
<p>|             | Architecture &amp; General Access |</p>
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<tr>
<th>Module 10</th>
<th>WebServices / SOA / SoapUI Testing</th>
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<td>Session - 33</td>
<td>Understand Test Automation Framework/ Tools for SAP</td>
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<td>Test Methodology &amp; Concepts for SAP</td>
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<td>Tester role &amp; test case development</td>
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<td>Interview questions.</td>
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<td>Session - 34</td>
<td>Real time project details</td>
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<td>What is WebServices, SOA and how to test WebServices in real time using SoapUI Tool.</td>
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<td>Install SoapUI Tool and practice.</td>
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<td>What is XML, Request, Response XML, WSDL Files</td>
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<td>End points and other WebServices Related questions are discussed.</td>
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</table>

| Session – 35 | Interview Questions, Practical training on WebServices Testing using SoapUI Tool |

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<th>Module 11</th>
<th>ETL Testing, Data warehouse Testing</th>
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<tr>
<td>Session - 36</td>
<td>What is ETL &amp; Data Warehousing?</td>
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<td>Extraction</td>
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<td>Transformation</td>
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<td>Loading</td>
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<td>Introduction to Data ware house, purpose of DWH with examples</td>
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<td>DWH Architecture</td>
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<td>OLTP System vs OLAP System</td>
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<td>What is a fact table?</td>
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<td>What is a dimension table?</td>
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<td>Fact vs. Dimension</td>
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<td>What is star schema?</td>
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<td>What is snow flake schema?</td>
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| Session - 37 | DWH Tools (different types of dwh tools) |
| | Types of data bases used in ETL testing |
| | Explaining about data mapping document |
Session -38
Testing tools used for ETL testing
Process flow in ETL Testing
Writing test cases for mapping documents

Module 12
IBM Rational – Quality / Test Manager
Session 39 & 40
Important features of IBM Rational Quality Manager (RQM) / Rational Test manager,
Dashboard, Viewlets, Project area, Test Suites, Test Plan, Test Case, Requirements, Test Scripts

WORK TOGETHER TOWARDS SUCCESSFUL CAREER
ATTEND CLASSES FROM ANY PART OF THE WORLD WHERE INTERNET ACCESS AVAILABLE
LIVE GREEN EVERYWHERE

At the outset, Online Training Classes are completely LIVE training programs. The faculty personally interacts, communicates, and engages with the students/participants as in the conventional class room, except the fact that, this is done digitally and remotely, which is the ‘new age’, 21st century class room. The students can easily and naturally ask questions on every topic and all questions/clarifications are answered immediately and instantly. All that students need are Internet access, phone, microphone and speakers, which in any case, all of us have.

Our sages have taught us ‘Learning must be an ongoing and continuous process’ for personal and professional growth. Remember, when we grow in our profession, that gives our family and children a lot happiness and brings us financial security. Now our questions are:

- Do you want to grow in your life by acquiring knowledge in new and emerging technologies?
- Do you want to bring more peace, more harmony and more happiness for your family?
- Do you want to enhance and earn more respect at your work place?

Then, please read the following VERY CAREFULLY?
Companies and organizations all around the world are becoming more and more quality conscious. This is simple because, the consumers continuously demand QUALIFY LIFE. And to deliver quality solutions and quality products, all companies are ensuring that their products pass through some very stringent quality processes. And here in lies the NEED and DEMAND for Quality Analyst. You may ask ‘Is being a Quality Analyst that important and easy? And ‘Can I be a Quality Analyst? Now, here are the answers:

- The world today is run on many different software applications and products
- The programmers build these products as per the requirements. But that is not enough.
- In order for these software products to run glitch free, Quality Analysts are extremely important, critical and crucial.
- As they test, analyze and determine whether a software application is good enough to be deployed.
- Meaning the Quality Analyst is more important to the company than the software engineers.
- There are numerous job opportunities for QA Analyst than the software engineers. How?
- Well, take this example, if you are a Java Programmer, the company could hire if there is a requirement for Java developer.
- But if you are a Quality Analyst, then, irrespective of whether the company has a Java, or .NET, or SAP or Seibel or any other technology requirement or not, you will be hired.

Job Oriented - Instructor Led - Face2Face - True Live Online I.T. Training for Everyone Worldwide
Simply because, Quality Analysts are REQUIRED for any technology or platform, meaning Quality Analyst job is simply, PLATFORM INDEPENDENT.

Quality Analysts are in GREAT DEMAND the world over, and YOU could be that one person who could shape the destiny of a quality software product, people from across the world could use for their benefit. And in return you get respect, and reverence from your peers, and ‘course the love of your happy family. DO NOT lose this opportunity. Call us NOW to know more on How You Can Shape Your Career and future.