



Brochure
IT Operations Management

Build the Skills to Succeed

Micro Focus® Software University



Build the Skills to Succeed

A college education equips students with broad knowledge, theory, and problem-solving skills that will serve them well throughout life. However, there is often a gap between education and specific skills that employers are seeking, especially in technology. Software tools and industry best practices are constantly evolving, and businesses are likely to be looking for candidates with very specific skills that will help to minimize the onboarding time and maximize the return on their staffing investment.

The Micro Focus Software University program is an initiative driven by Micro Focus Software Education that is intended to help students complement their formal education with software education in the hottest areas in IT, including software testing, cyber security, Big Data analytics and DevOps.

After completing the Micro Focus Software curriculum, students have real application skills that will help them succeed in industry and are more attractive to potential employers, because these applicants will require less onboarding training in these application areas.

This software education program also benefits communities globally, as it promotes technical talent in the workforce that can help businesses meet their staffing objectives quickly and effectively, thus contributing to growth.

“As well as training on particular software, ... also helps in raising students’ awareness of technologies and the career paths available once they have learned about them.”

RAGHU BS
Senior Vice President
SEED Infotech

Micro Focus Software University at a Glance

- Improves employability of students
- Increases awareness of career paths and technology growth areas
- Widens the range of job opportunities of students
- Improves the availability of a skilled workforce to industry
- Provides corporate-grade training at an affordable price

Program Details

Micro Focus Software University provides students the benefits of top-tier corporate software training on industry-leading Micro Focus solutions, at an affordable price.

Classes range from 32 to 120 hours to complete and provide practical, hands-on experience on these products. The curriculum is designed to cover real-life case scenarios and exercises that aim to address the training needs from a novice to an expert level.

The classes are in a workshop environment that challenges the trainee, aids them during the learning process, and accelerates knowledge transfer. Students have the flexibility to choose the format that suits them best. They can attend classes as a full-time student, which typically run for 35 to 40 days, or choose to attend for three or four hours per day over a more extended period.

The environment is collaborative, fast paced, and exciting for our learners. Micro Focus Software University focuses on four of the hottest areas of IT—software testing, cyber security, Big Data, and DevOps.

IDC forecasts a 5-year 12.5 percent CAGR for discrete testing services.¹ Services revenue related to Big Data deployments, which includes professional and support services, will grow at a CAGR of 22.7 from 2014 to 2019.²

Our IT software education team can also design a custom curriculum for your university around any area of Micro Focus Software expertise.

¹ *IDC Worldwide and U.S. Discrete Testing Services, 2015–2019 Forecast, July 2015*

² *IDC Worldwide Big Data Technology and Services Forecast 2015–2019, July 2015*

Software Testing Professionals Are in Demand

Powerful software delivers the most in the hands of powerful users. At Micro Focus Software University, students learn the best practices of testing using an industry-leading Micro Focus software testing portfolio.

All software applications, no matter what lifecycle process, require a wide range of testing expertise, including generalist testing, specialty testing, and high in-demand mobile testing. In this era of agile development, where application development needs to accelerate change and reduce risk, testing is more important than ever and automation experience is a “must have.”

“Through the first-class ... Software Testing Program, we’re giving our students the best possible opportunity to make a career in this important profession. It has the potential to turn our students into tomorrow’s entrepreneurs, not only here in Malaysia but internationally.”

DR. ISAHAK KASSIM
Assistant Dean
Universiti Teknologi Mara

The need for skilled testers is staggering. The explosive demand for mobility in most applications added a new level of need for automation and mobility testing professionals. The 2015 World Quality Report states that total IT spend for QA and testing is expected to rise to 40 percent by 2018. The report also states that 92 percent of organizations are applying mobile testing.

The Micro Focus Software University Testing series includes classes in the following solutions:

Micro Focus Application Life Cycle Management (ALM)

This is an application management solution to help users to define, build, test, and deliver applications quickly and with confidence across the entire Software Development Life Cycle (SDLC).

Micro Focus LoadRunner Software Series, Including VuGen

Market-leading LoadRunner load testing software has everything that is needed to test diverse types of applications. It is easy to use, comprehensive, affordable, used by many customers worldwide, and has a large community of performance testers and performance engineers.

The LoadRunner scripting tool is called VuGen. It enables you to record and edit a variety of user transactions, each suited to a particular load testing environment or topology.

Micro Focus Unified Functional Testing Series

Testing modern applications such as composite and hybrid applications, cloud computing, and mobile platforms introduces challenges to today’s functional testing teams—many of which are not equipped with tools and knowledge to rise to the challenges. Micro Focus offers a comprehensive functional testing solution to help you deliver quality applications at the speed of your business.

Big Data Changes Everything— Including Career Prospects

Big Data is big and the need for skills around Big Data is even bigger. In the Micro Focus Software University Big Data series, students learn the latest in Big Data technology and Micro Focus IDOL (Intelligent Data Operating Layer) that is used at companies worldwide.

IDC forecasts that Big Data software, which includes information management, discovery, analytics, and application software, will grow at CAGR 26.2 percent and reach \$12.82 billion USD in 2019³

And according to Forbes, the top five industries hiring Big Data-related expertise include professional, scientific, and technical services (25%), information technologies (17%), manufacturing (15%), finance and insurance (9%), and retail trade (8%).⁴

The Big Data curriculum includes the following courses:

Introduction to Big Data

This course introduces students to Big Data: how it contributes to company value worldwide and the application of skills in the field. The discussions will include real-life case studies, where organizations have leveraged Big Data for competitive advantage.

³ *IDC Worldwide Big Data Technology and Services Forecast 2015–2019, July 2015*

⁴ *Big Data and Advanced Analytics Survey, Evans Data Corporation, 2015*
forbes.com/sites/louiscolumnbus/2015/10/11/2015-big-data-market-update/

Big Data Essentials

Students learn about many of the most popular technologies in the Big Data area, including:

- **Apache Hadoop:** An open source software framework written in Java for distributed storage and distributed processing of very large data sets on computer clusters built from commodity hardware.
- **MapReduce:** A programming model and an associated implementation for processing and generating large data sets with a parallel, distributed algorithm on a cluster.
- **Pig:** A scripting platform for processing and analyzing large data sets.
- **Hive Apache:** A data warehouse infrastructure built on top of Hadoop for providing data summarization, query, and analysis.
- **HBase:** An open-source, non-relational, distribute database modeled after the Google Bigtable.

Micro Focus IDOL

A next-generation data analytics platform, Micro Focus IDOL enables users to understand data from virtually any source, any format, and any location with speed, security, and scale. Companies worldwide recognize the need for Big Data in order to stay competitive. There are over 500 analytical functions available for text, audio, video, and image from which users can derive actionable insights.

IDOL is just as suitable for small department installations as it is for comprehensive IT infrastructures with data volumes in the petabyte range, so expect the market need for IDOL-trained experts to continue to grow.

"... now offers the IDOL engine in a lighter-weight, developer-targeted cloud edition in an effort to attract business from smaller projects that previously could not expect to succeed with the full IDOL platform."—Gartner

Earn Globally Recognized Certifications

Micro Focus Software University students earn a basic course completion certificate for each course enrolled, when completing with at least 75 percent attendance. They may also elect to test for professional certification.

Whether the student, which could be you, is a newcomer aiming at a first job or a veteran aiming for career advancement, career change, or a better salary, you can benefit from the certification. The Micro Focus Software training and software certification program is a path to help you reach your goal—more quickly, more efficiently, and with greater value.

Certifications offered as part of Micro Focus Software University are:

- Micro Focus Qualified Software Testing Expert
- Micro Focus Accredited Technical Professional (ATP) Software Testing Foundations
- Micro Focus IDOL Server

These certifications are the same as those earned by industry professionals and recognized by employers globally.

Ethical Hacker Foundation and Security Analysts

Ethical hacking, also known as penetration testing, is a form of active information security. Ethical hacking is used to evaluate the security of a network or system's infrastructure. It involves finding and attempting to exploit any vulnerabilities to determine whether unauthorized access or other malicious activities are possible. Any organization that has a network connected to the Internet or provides an online service should undergo penetration testing at regular intervals. An ethical hacker is a computer and networking expert who systematically penetrates to a computer system or network to look for security vulnerabilities that a malicious hacker could potentially exploit.

The Ethical Hacker Foundation and Security Analysts curriculum includes the following courses:

Security Management—Ethical Hacker Foundation and Security Analysts Course—Semester 1 and Semester 2

This is a graduate-level foundation course in the Information Security space. The course covers the basic concepts, principles, and fundamental approaches to secure computers, applications, and networks, which are the foundations of Ethical Hacking and Security Management.

Quality Engineering and DevOps

Quality engineering is the management, development, operation, and maintenance of IT systems and enterprise architectures with a high quality standard.

Quality Engineering integrates methods and tools from Enterprise architecture-management, software-product management, IT service management, software engineering, and Systems Engineering, and from software quality management and information security management. As far as quality attributes are concerned, reliability, security, and safety of IT services play a predominant role.

The Quality Engineering and DevOps curriculum includes the following course:

Introduction to Quality Engineering and DevOps

This course introduces students to Application Delivery Management or the ADM Line of Products, along with and introduction to DevOps. The idea is to share the know-how to use the Unified Functional Testing (UFT) application as an automated functional testing tool. You can use the point and click interface to record and play back tests, add synchronization points and verification steps, and create multiple action tests.

Application Lifecycle Management, on the other hand, educates students to manage quality information throughout the development cycle, from constructing requirements, designing and executing tests, and monitoring defects.

DevOps is the practice of operations and development engineers participating together in the entire service lifecycle, from design through the development process to production support.

Mobile Apps Development and Testing

Mobile application testing is a process by which application software developed for handheld mobile devices is tested for its functionality, usability, and consistency. Mobile application testing can be automated or manual. Mobile applications either come pre-installed or can be installed from mobile software distribution platforms.

This curriculum includes the following course:

Introduction to Mobile Apps Development and Testing

This course introduces students to some basic and advanced concepts related to Android Mobile Application programming. Then the students are introduced to automating the functional testing of the mobile applications being developed, using Micro Focus Mobile Center. This helps to ensure the least scope of errors in the mobile application development by pinpointing bottlenecks, in order to provide a satisfactory experience to the mobile application user.

The Micro Focus Software University Difference

Micro Focus Software University is a global program designed by Micro Focus solution experts in the U.S., specifically to meet the needs of our international student community.

Benefits to consider:

- **Proven:** The software education program has been successfully delivered in India, Malaysia, and the Philippines to over 15,000 students over the last two years. This proven program is helping

students learn the skills to succeed in industry and is opening the door to new opportunities.

- **Certified instructors:** All instructors are Micro Focus certified in their subject areas, so students will be learning from people at the top of their field.
- **Quality:** Micro Focus courseware developers, who work directly with Micro Focus R&D and software development, have developed the learning materials. These materials are exclusive to Micro Focus Software University and are continually updated to reflect the latest developments in the fast-moving technology for testing, mobility, and Big Data.
- Micro Focus **hardware and software:** Students are provided a modern lab environment that enhances the learning experience.
- **Industry-leading solutions:** A nearly continuous improvement process helps to optimize system information over the long-term, enable better decision-making, and derive more value from your content.
- **Worldwide delivery partners:** Located across the world to deliver professional and high-quality instruction in your region.

About Micro Focus Software Education

Micro Focus Software Education gives our customers the power to make the most of their software investment. We provide comprehensive software training that spans across our entire software portfolio. This includes IT operations management (ITOM), ALM, Big Data, and Security, as well as a variety of business curriculum related to transformations such as DevOps and IT4IT.

We invest in research and development of training materials and teaching methodologies. Our curriculum is prepared by Micro Focus certified experts who have years of industry experience. The curriculum is designed to cover real-time case scenarios and exercises that meet training needs at all levels, from novice to expert.

The academic software education programs for universities and colleges are the newest offerings from Micro Focus Software Education. We leverage our industry content in these classes so that students are industry-ready upon successful completion.

About Micro Focus

Micro Focus is a global software company with 40 years of experience in delivering and supporting enterprise software solutions that help customers innovate faster with lower risk. By applying proven expertise in

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software and security, we enable customers to utilize new technology solutions while maximizing the value of their investments in critical IT infrastructure and business applications. As a result, they can build, operate and secure the IT systems that bring together current business logic and applications with emerging technologies—in essence, bridging the old and the new—to meet their increasingly complex business demands.

Learn more at

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