

Linux™



ROLASOFT PROFESSIONAL COMPUTER & IT
COURSES VERSION 2.0 LATEST

Certificate in Linux Shell Scripting

Become a job-ready Linux in 8 weeks!

Benefits of Studying with RolaSoft

✓ **Industry-Relevant Curriculum**

Stay ahead with a syllabus designed by industry experts, focused on real-world applications of Linux Shell Scripting.

✓ **Hands-On Training**

Learn by doing — build real-time projects, develop applications, and gain practical coding experience.

✓ **Experienced Instructors**

Gain insights from certified professionals and senior software engineers with years of teaching and industry experience.

✓ **Flexible Learning Modes**

Choose between: **Online**, **Offline (at our center)**, or **Hybrid Classes**

Benefits of Studying with RolaSoft

✓ Mini & Major Projects

Work on individual and group projects to strengthen your portfolio and impress future employers.

✓ Certification Upon Completion

Earn a **Diploma Certificate** from **RolaSoft Technologies**, recognized by IT recruiters and employers.

✓ Small Batch Size

Personalized attention and better interaction in small groups for an enhanced learning experience.

✓ Affordable Fees & Installment Plans

Top-tier training at a reasonable cost, with flexible payment options.

✓ Career-Oriented Skills You'll Gain at RolaSoft Technologies

RolaSoft ensures you're job-ready with the right tech stack and practical knowledge.

Certificate in Linux Shell Scripting Course Details

- ✓ **Duration**
Eight (8) Weeks
- ✓ **Schedule**
Weekdays / Weekends
- ✓ **Learning Modes**
Online, Offline (at our center), or Hybrid Classes
- ✓ **Start Date**
New batches start every month — enroll now!
- ✓ **Eligibility**
No prior experience required

Certificate in Linux Shell Scripting Course Curriculum

Week 1: Introduction to Linux & Shell Scripting

- ✓ Overview of Linux operating systems
- ✓ Understanding the Linux filesystem (/, /home, /etc, /var, /usr)
- ✓ Linux shell types (Bash, Zsh, Ksh, etc.)
- ✓ Basic Linux commands (ls, cd, pwd, cp, mv, rm, cat, touch, etc.)

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Week 2: Working with Files & Directories in Shell Scripts & Variables & User Input in Shell Scripts

- ✓ File and directory permissions (chmod, chown, chgrp)
- ✓ File handling with shell scripts (create, read, write, delete)
- ✓ Redirecting input & output (>, >>, <, |, tee)
- ✓ Using wildcards and regular expressions in scripts
- ✓ Using variables in scripts (local, global, environment)
- ✓ Reading user input (read command) & Command-line arguments (\$0, \$1, \$2, \$#)
- ✓ Performing arithmetic operations in scripts

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Week 3: Conditional Statements & Loops & Functions & Script Debugging

- ✓ Using **if-else**, **case**, **test** conditions
- ✓ Looping with **for**, **while**, **until** loops
- ✓ Break and continue statements
- ✓ Writing interactive scripts
- ✓ Defining and calling functions in scripts
- ✓ Function arguments and return values
- ✓ Debugging shell scripts (set -x, trap, error handling)

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Week 4: Working with Text Processing & Logs

- ✓ Using grep, awk, sed for text processing
- ✓ Log file analysis and parsing
- ✓ Formatting and reporting data from logs
- ✓ Automating text processing tasks

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Week 5: Process Management & Job Scheduling & File & Directory

Management Automation

- ✓ Background and foreground processes (&, fg, bg, jobs)
- ✓ Killing and managing processes (ps, top, kill, pkill)
- ✓ Automating scripts using cron jobs and at command
- ✓ Monitoring system resources with shell scripts
- ✓ Creating backup scripts & Archiving & compressing files (tar, gzip, bzip2)
- ✓ Automating file transfers with scp and rsync
- ✓ Managing file permissions dynamically in scripts

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Week 6: Networking & System Monitoring Scripts

- ✓ Checking network connectivity (ping, netstat, ss)
- ✓ Automating system updates & patching
- ✓ Monitoring disk usage and system health
- ✓ Writing custom system monitoring scripts

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Week 7: Security & User Management Automation

- ✓ User and group management in shell scripts
- ✓ Automating user account creation and permissions
- ✓ Implementing password policies with scripting
- ✓ Secure shell scripting practices

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Week 8: Database & API Integration with Shell Scripts

- ✓ User and group management in shell scripts
- ✓ Automating user account creation and permissions
- ✓ Implementing password policies with scripting
- ✓ Secure shell scripting practices

Final Capstone Project (End of 8 Weeks)

Students will complete a project and examination:

- Writing a complete automation project (system monitoring, backup, log analysis)
(Capstone Project)

Rolasoft Technologies Services

Rolasoft Technologies – Services Offered

✓ **SOFTWARE DEVELOPMENT COMPANY**

(MOBILE APPLICATION, WEB APPLICATION, DESKTOP APPLICATION, CUSTOMIZED APPLICATION, E-COMMERCE WEBSITE)

✓ **PROFESSIONAL COMPUTER AND IT EDUCATION**

(TOP-UP PROGRAMS, DIPLOMA PROGRAMS, CERTIFICATE PROGRAMS, TECH @ SCHOOL, CORPORATE PROGRAMS, SIWES PROGRAMS, CUSTOMIZED PROGRAMS)

✓ **DIGITAL ADVERTISING AND BUSINESS BRANDING**

(SOCIAL MEDIA MARKETING, EMAIL MARKETING, CONTENT MARKETING, WEBSITE SEO, BRANDED CLOTHING, STICKERS AND TAG, CUSTOM BRANDING, AND MANY MORE)

✓ **INTERNATIONAL UNIVERSITY ADMISSION PROCESSING**

(AMERICA, UK, CANADA, EUROPE, AFRICA, AND MANY MORE)

Contact & Registration

 Phone: +234 8032867212, +234 8082171242

 Email: info@rolasofttech.com

 Website: www.rolasofttech.com

 Address: 2, Martins Street Off Ojuelegba Road, Yaba, Lagos State.



Enroll Today & Start Your Linux Shell Scripting Journey!
Shape your future with Linux Shell Scripting.