DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Chef Fundamental Advanced Training

Test cookbooks with ChefSpec and Test Kitchen, enforce compliance with InSpec and Chef Automate and release with Policyfiles in CI/CD.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	41 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/chef/chef-fundamental-advance-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Chef Fundamental course path, you will be able to:

1

Master Chef fundamentals

Use Chef terminology, Ruby basics and core resources to describe server configuration as code.

2

Build and run cookbooks

Develop cookbooks with attributes, files, notifications and dependencies and converge them through Chef Infra Server.

3

Test and release safely

Validate cookbooks with ChefSpec, Test Kitchen and InSpec and release them with Policyfiles.

WHAT THE ADVANCED LEVEL ADDS

Testing, InSpec, Automate and Policyfiles

Hands-on: Release a tested cookbook pipeline. Write ChefSpec and Test Kitchen tests for a custom resource, add an InSpec profile and release the policy through a CI/CD pipeline.

WHO SHOULD ATTEND

- Experienced Chef Fundamental practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Chef Fundamental solutions.
- Teams making Chef Fundamental an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Set up Chef Infra Server, configure knife, bootstrap Linux and Windows nodes and manage them with roles, environments and data bags.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ADVANCED

Chef Fundamental Advanced Training agenda

41 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: Chef terminology, Ruby basics and first recipe

Included from Foundation

1. DevOps concept and process: need for DevOps, culture and the DevOps toolchain
2. Configuration management: what it is and why you need a tool to automate IT configuration
3. What is Chef: Chef Infra, desired state and why Chef can be a good tool for your enterprise
4. Chef terminology: node, workstation, server, cookbook, recipe, resource, run-list and Ohai
5. Ruby fundamentals for Chef: strings, symbols, arrays, hashes, blocks and methods
6. Chef development tools: installing Chef Workstation with chef, knife, cookstyle and kitchen
7. Chef syntax and examples: resource blocks, actions, properties and guards
8. First recipe: writing a Chef recipe and applying it with chef-client in local mode
9. Core resources: package, service, file, directory, user and execute
10. Becoming a Chef programmer: reading the resource reference and Chef documentation

DAY 2 — Essential: Writing cookbooks, attributes and notifications

Included from Essential

11. Writing cookbooks: chef generate cookbook and developing your first cookbook
12. Using cookbooks: the default recipe and recipe inclusion with include_recipe
13. Cookbook metadata and documentation: metadata.rb fields, README and meta information
14. Chef attributes: attribute files, default and override precedence
15. File operations in a cookbook: cookbook_file, remote_file and file resources
16. Configuration files from ERB: rendering variables and helpers into config files
17. Notifications: notifies and subscribes, delayed versus immediate timing
18. Cookbook dependencies: depends in metadata.rb and dependency resolution
19. Chef Solo and local mode: single-node runs without a server
20. Linting: Cookstyle as the successor to the retired Foodcritic

DAY 3 — Intermediate: Chef Server, knife, nodes and environments

Included from Intermediate

21. Chef Server setup: installing Chef Infra Server on a CentOS or RHEL family host
22. Chef organization: users, organizations, validator and client keys
23. Working with knife and configuration: config.rb, credentials and server communication
24. Using Chef Server: uploading the cookbook and running the cookbook on nodes
25. Node onboarding: Chef-ing Linux nodes and Chef-ing Windows nodes with knife bootstrap
26. Data bags: storing shared data and encrypted data bags for secrets
27. Chef environments and Chef roles: attributes and run-lists per stage
28. Chef Supermarket: community cookbooks and the wrapper cookbook pattern
29. Chef configurations deep dive: client.rb, run intervals, logging and Ohai plugins
30. Chef in Windows: windows_package, powershell_script, registry_key and DSC resources

31. Management interfaces: the retired Chef Manage console and node views in Chef Automate

DAYS 4-5 **Advanced: Testing, InSpec, Automate and Policyfiles** — **New at this level**

32. Chef unit testing with ChefSpec: runners, expectations and stubbing
33. Chef integration testing using Test Kitchen: kitchen.yml, drivers and verify with InSpec
34. InSpec: controls, profiles and running compliance scans against nodes
35. Chef Automate essentials: dashboards, compliance reports and node visibility
36. Push Jobs and Push Jobs Server: the legacy remote execution model and modern alternatives such as knife ssh
37. Policyfiles: repeatable releases of cookbook sets across environments
38. Custom resources: properties, actions and reusable building blocks
39. Cookbook CI/CD: Cookstyle, ChefSpec, Test Kitchen and policy push in a pipeline
40. Scaling and hardening: run intervals and splay, server tuning and key rotation
41. Capstone: tested, compliance-checked cookbook released through a pipeline

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

Apply a first Chef recipe

Install Chef Workstation, write a recipe using package, file and service resources and converge a lab VM in local mode.

ESSENTIAL

Build a complete web server cookbook

Create a cookbook with attributes, an ERB-rendered config file, notifications that restart the service and a dependency on a community cookbook.

INTERMEDIATE

Manage Linux and Windows nodes

Install Chef Infra Server, bootstrap a Linux and a Windows node and promote a cookbook from a dev to a prod environment using roles.

ADVANCED

Release a tested cookbook pipeline

Write ChefSpec and Test Kitchen tests for a custom resource, add an InSpec profile and release the policy through a CI/CD pipeline.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four Chef Fundamental levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	5 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR CHEF FUNDAMENTAL TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/chef/

ENROL OR RESERVE A SEAT
Chef Fundamental Advanced Training

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