|  |  |
| --- | --- |
| OFFICE OF APPRENTICESHIPBULLETIN | **NO.**2025-82 |
| **DATE**April 24, 2025 |

**TO:** NATIONAL APPRENTICESHIP SYSTEM STAKEHOLDERS

 OFFICE OF APPRENTICESHIP STAFF

 STATE APPRENTICESHIP AGENCIES

**FROM:** MEGAN BAIRD /s/

 Acting Administrator, Office of Apprenticeship

**SUBJECT:** New National Occupational Framework (NOF) Apprenticeable Occupation: DevOps Engineer

1. **Purpose.** To inform the staff of OA, State Apprenticeship Agencies (SAA), Registered Apprenticeship program sponsors, and other Registered Apprenticeship partners of the following new National Occupational Framework (NOF) to an apprenticeable occupation: DevOps Engineer.
2. **Action Requested.** OA staff should familiarize themselves with this bulletin and the attached Work Process Schedule and Related Instruction Outline, as a source for developing apprenticeship standards and/or providing technical assistance.

DevOps Engineer will be added to the List of Occupations Recognized as Apprenticeable by OA located on www.apprenticeship.gov. A suggested Work Process Schedule and Related Instruction Outline are attached.

1. **Summary and Background.**
	1. Summary – The occupation DevOps Engineer was submitted by Mr. Zachary Boren, Senior Policy Program Manager on behalf of Urban Institute, were processed by Dr. Ricky C. Godbolt, Program Analyst, and approved by the OA Acting Administrator on April 23, 2025.

The National Office has approved a new National Occupational Framework (NOF), developed in partnership with the Urban Institute. This NOF has met industry standards and approval; it covers job titles and occupational pathways, related functions, and performance criteria, as well as academic, workplace and personal competencies for job success. While use of NOFs in developing standards utilizing the competency-based training approach is voluntary, no additional vetting of a Work Process Schedule (WPS) utilizing the NOF should be required where a program aligns to the occupational framework described in a NOF, beyond the basic requirements set forth in 29 CFR Part 29. While on-the-job learning (OJL) is ordinarily outlined in the WPS, sponsors who utilize a NOF must develop the Related Instruction Outline, which should be included in the standards. Within certain limits, the sponsors of NOF apprenticeship programs are permitted to customize the job functions or competencies contained in a NOF for the DevOps Engineer occupation.

However, OA encourages the use of all core competencies to be included in the approved WPS.

* 1. Background –

***New/Revised Occupation Background -*** Under 29 CFR section 29.4, an occupation for a RAP must meet the following criteria to be determined apprenticeable:

1. Involve skills that are customarily learned in a practical way through a structured, systematic program of on-the job supervised learning:
2. Be clearly identified and commonly recognized throughout an industry;
3. Involve the progressive attainment of manual, mechanical, or technical skills and knowledge which, in accordance with the industry standard for the occupation, would require the completion of at least 2,000 hours of on-the-job learning to attain; and
4. Require related instruction to supplement the on-the job learning.
5. **New NOF Apprenticeable Occupation.** The occupation DevOps Engineer was submitted for an apprenticeability determination.

DevOps Engineer
O\*NET-SOC CODE: 15-1252.00

RAPIDS Code: 4003

Type of Training: Time-based, Hybrid, Competency-based

Term Length: Time-based 2000, Hybrid 2,000 – 4,000, Competency-based 1 year

DevOps Engineers perform the following duties:

* Collaborates across engineering and product teams.
* Configures technological infrastructure used to run software, subnetting, and networking.
* Integrates unit tests into continuous integration and continuous delivery (CICD) flow.
* Deploys new software to make it available for wider use.
* Efficiently runs and monitors software and infrastructure.
* Resolves issues and assures site resiliency using IT service management principles and practices.

DevOps Engineers are tech professionals who bridge the gap between the development and operations sides of software delivery. DevOps engineers implement and manage continuous integration, delivery and deployment processes, using automation, AI, and AI-enabled DevOps toolchains and pipelines. Much of what they build either operates in or supports deployment in cloud-native, distributed architectures. DevOps engineers collaborate with teammates across a company to ensure a high-quality software development process.

## The job titles of DevOps Engineers include Platform engineer, DevSecOps engineer, site reliability engineer (SRE), site resiliency engineer, software reliability engineer, operations engineer, cloud engineer, systems engineer, and delivery enablement engineer.

Apprenticeship Prerequisites:

## Many employers may require prior knowledge of particular software or DevOps tools. Knowledge of which particular tool(s) is needed will be unique to the individual employer. Some apprenticeships may require a bachelor’s degree in a field related to computer science, credentials for certain technologies, basic knowledge of coding and hardware support, basic IT technical experience, or attendance at bootcamp or coding school.

1. **Inquiries.** If you have any questions, please contact Dr. Ricky C. Godbolt, Program Analyst, Division of Standards and Quality at (202) 693-3815 or Godbolt.Ricky.C@dol.gov .
2. **Attachments.**

