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| OFFICE OF APPRENTICESHIP  BULLETIN | **NO.**  2025-149 |
| **DATE**  July 30, 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: Aerospace Engineering Build Technician

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: Aerospace Engineering Build Technician.
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.

Aerospace Engineering Build Technician 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 Aerospace Engineering Build Technician was submitted by Mr. Zachary Boren, Senior Policy Program Manager on behalf of Urban Institute, was processed by Dr. Ricky C. Godbolt, Program Analyst, and approved by the OA Acting Administrator on July 28, 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 Aerospace Engineering Build Technician 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 Aerospace Engineering Build Technician was submitted for an apprenticeability determination.

Aerospace Engineering Build Technician  
O\*NET-SOC CODE: 17-3021.00

RAPIDS Code: 4020

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

Term Length: Time-based 4000, Hybrid 4,000 – 6,000, Competency-based 2 years

Aerospace Engineering Build Technicians perform the following duties:

* Prepares tools, equipment, components, and parts for assembly and installation.
* Assembles and installs aerospace flight and ground hardware, equipment, components, parts, and systems.
* Runs mechanical and electrical tests and documents test results.
* Modifies and repairs equipment, parts, components, or systems.
* Reads and interprets aerospace engineering documentation.

Aerospace engineering technicians support the design, development, testing, and production of aircraft and spacecraft, including their electrical and electronic equipment and systems. Technicians ensure that aerospace designs are safe, optimized, and high-quality, fabrication parameters are accurate, and any pre or post service malfunctions are quickly identified and resolved. Using specialized equipment, test facilities, and computer systems, aerospace engineering technicians work closely with engineers and other technical personnel to run tests, isolate issues, and modify components based on test results. Throughout this process, aerospace engineering technicians keep detailed documentation and ensure that their work complies with industry standards, regulations, and safety guidelines.

The job titles of Aerospace Engineering Build Technicians include aerospace electronics technician, avionics installation technician, avionics technician, avionics test technician, engineering technician, engineering test technician, flight test instrument technician, instrumentation technician, systems test technician, test technician.

Apprenticeship Prerequisites:

Apprentices should have a high school diploma or equivalent. Some programs may require apprentices to have prior experience working with electrical or electronic equipment and systems. Apprentices should be able to lift and/or move up to 50 pounds and have sufficient manual dexterity and physical strength to operate hand and power tools.

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](mailto:Godbolt.Ricky.C@dol.gov) .
2. **Attachments.**

