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| OFFICE OF APPRENTICESHIP  BULLETIN | **NO.**  2024-138 |
| **DATE**  September 23, 2024 |

**TO:** NATIONAL APPRENTICESHIP SYSTEM STAKEHOLDERS

OFFICE OF APPRENTICESHIP STAFF

STATE APPRENTICESHIP AGENCIES

**FROM:** JOHN V. LADD /s/

Administrator, Office of Apprenticeship

**SUBJECT:** New NOF Apprenticeable Occupation: Electrical and Electronic Engineering Technicians

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: Electrical and Electronic Engineering Technicians
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.

Electrical and Electronic Engineering Technicians 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 Electrical and Electronic Engineering Technicians was submitted by Mr. Zachary Boren, Senior Policy Program Manager on behalf of Urban Institute, was processed by Kirk Jefferson and approved by the OA Administrator on September 18, 2024.

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 Electrical and Electronic Engineering Technicians 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 Electrical and Electronic Engineering Technicians was submitted for an apprenticeability determination.

Electrical and Electronic Engineering Technicians  
O\*NET-SOC CODE: 17-3023.00

RAPIDS Code: 0155

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

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

(Note: This occupation is currently approved at 8000 hours. After consulting with Urban and based on their review, we are recommending changing our TB to 4000 hours and HY to 4000-6000 hours. This may affect current registered programs.)

Electrical and Electronic Engineering Technicians perform the following duties:

• Assembles, tests, or maintains circuitry of electronic components according to engineering instructions, technical manuals, or knowledge of electronics, using hand tools or power tools;

• Reviews electrical engineering and maintenance standards and identify potential revisions or amendments; and

• Operates machines, equipment, and computer systems as part of installation activities

1. **Inquiries.** If you have any questions, please contact Douglass McPherson, Supervisory Apprenticeship and Training Representative, Division of Standards and Quality at (202) 693-3783.
2. **Attachments.**

