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| OFFICE OF APPRENTICESHIP  BULLETIN | **NO.**  2024-58 |
| **DATE**  March 15, 2024 |

**TO:** NATIONAL APPRENTICESHIP SYSTEM STAKEHOLDERS

OFFICE OF APPRENTICESHIP STAFF

STATE APPRENTICESHIP AGENCIES

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

Administrator, Office of Apprenticeship

**SUBJECT:** New Apprenticeable Occupation: Cryogenics/superconducting Magnet 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 apprenticeable occupation: Cryogenics/superconducting Magnet 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.

Cryogenics/superconducting Magnet Technician will be added to the List of Occupations Recognized as Apprenticeable by OA located on [www.apprenticeship.gov](http://www.apprenticeship.gov) . A suggested Work Process Schedule and Related Instruction Outline are attached.

1. **Summary and Background.**
   1. Summary – The occupation Cryogenics/superconducting Magnet Technician was submitted by Diana Adel, Apprenticeship Program Manager, Princeton Plasma Physics Laboratory (PPPL) were processed by Ricky Godbolt and approved by the OA Administrator on March 4, 2023.
   2. 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 Apprenticeable Occupation.** The occupation Cryogenics/superconducting Magnet Technician was submitted for an apprenticeability determination.

Cryogenics/superconducting Magnet Technician

O\*NET-SOC CODE: 17-3027.00

RAPIDS Code: 3072CB

Type of Training: Competency-based

Average Term: 3 years

Cryogenics/superconducting Magnet Technicians perform the following duties:

* Assemble, test, and maintain cryostats, cryocoolers, vacuum systems, and other cryogenic equipment used in superconducting magnet systems.
* Wind superconducting coils according to specifications using coil winders.
* Test superconducting magnets at cryogenic temperatures using cryogenic gas or liquid helium and nitrogen.
* Maintain detailed records of coil fabrication and cryogenic system performance.

1. **Inquiries.** If you have any questions, please, contact Michael W. Blatt, State Director, Office of Apprenticeship at (732) 750-0766 or [blatt.michael.w@dol.gov](mailto:blatt.michael.w@dol.gov).
2. **Attachments.**

