GENERAL SERVICES ADMINISTRATION
Federal Supply Service Authorized Federal Supply Schedule Price

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!®, a menu-driven database system. The INTERNET address GSA Advantage!® is: GSAAdvantage.gov.

MULTIPLE AWARD SCHEDULE
FACILITIES / PSC R404

For more information on ordering from Federal Supply Schedules go to the GSA Schedules page at GSA.gov.

Contract Period: January 16, 2020–January 15, 2025

Pennsylvania State University, The
201 Old Main
University Park, PA 16802-1503
814-865-7615
Fax: 814-863-7835
psfei@engr.psu.edu

Contract Administrator: Mark A. Bodenschatz

Business Size: Other than Small Business

Prices Shown Herein are Net (discount deducted)

Supplement No. A826—December 18, 2020
TABLE OF CONTENTS

Organizational Profile ..................................................................................................................... 3
Office Location ................................................................................................................................ 4
Schedule of Offerings...................................................................................................................... 4
SIN 541690E: Energy Consulting Services ....................................................................................... 5
  EFOM—Effective Facility Operations and Maintenance ............................................................. 6
  FEFC—Fundamentals of Effective Facility Commissioning ......................................................... 6
  FHPB—Fundamentals of High Performance Buildings .............................................................. 6
  FIFT—Facility Infrastructure Fundamentals Training ................................................................. 7
  FWCM—Facilities Water Conservation and Management ......................................................... 7
  SBOT—Smart Building Operations Training ............................................................................ 7
Partial Client List ............................................................................................................................. 8
Federal Supply Schedule Price List ............................................................................................... 9
Customer Information .................................................................................................................. 11
ORGANIZATIONAL PROFILE

The Pennsylvania State University’s (Penn State) Facilities Engineering Institute (PSFEI) founded in 1947 at the request of the Commonwealth of Pennsylvania (Commonwealth) touches the lives of thousands of people across our nation. Part of Penn State’s College of Engineering, University Park, Pennsylvania, PSFEI provides facility engineering and adult educational services to the federal government’s General Services Administration and twelve state agencies of the Commonwealth.

Penn State is a world leader in higher education and carries out its mission of teaching, research, and service with pride and focus on the future. Our leadership in administration, faculty, and staff make our mission come alive every day. With a firm grounding in fundamentals, the College of Engineering embraces multidisciplinary and interdisciplinary education and research and integrates component solutions into a systems perspective. With twelve departments and schools offering undergraduate and graduate degrees in a broad spectrum of engineering disciplines and computer science, and with over thirty research centers and laboratories, the Penn State College of Engineering is one of the nation’s leading academies of learning, discovery, and application. This work, which is richly intertwined with industry, both at our doorstep in Pennsylvania and nationally, affords our course participants unparalleled training and employment opportunities.

Aligned with the mission of Penn State, PSFEI strives to merit public trust by meeting customer facility needs through engineering, information management, education, and applied research, while exploring new and innovative ways to exceed customer expectations. Over the past 72 years, PSFEI has had the privilege of serving its customers and their facilities needs in the following four areas:

**Training**

As an educational, outreach organization, PSFEI seeks out and meets the challenge of developing and tailoring courses to assist its state and federal partners in meeting their operations and maintenance training needs. PSFEI course material is developed in consideration of the diverse infrastructure portfolio of its public clients coupled with the complex training needs of those individuals tasked with operating and maintaining these facilities effectively, efficiently, and safely.
Facilities
PSFEI assists in troubleshooting operation and maintenance problems with building mechanical systems, electrical distribution systems, central boiler plants, potable and wastewater systems, building control and automation systems, fire and security systems, and building structures and envelopes. PSFEI assists with facility planning by conducting studies and building assessments for clients, assisting in project scope development, and reviewing projects.

Energy
PSFEI has extensive energy market and utility industry expertise. We are the primary adviser to the Commonwealth for electricity and natural gas procurement and account management activities. We assist the Commonwealth in keeping current with utility industry and regulatory activities.

Information Technology
PSFEI developed several in-house custom applications to assist our clients with management of their facility's information. These are user-friendly applications that meet customer requirements.

OFFICE LOCATION
Penn State Facilities Engineering Institute
135 East Nittany Avenue, Suite 414
State College, PA 16801
(We are adjacent to Penn State's University Park campus)

SCHEDULE OF OFFERINGS
The following services available under the GSA Schedule and our approved Special Item Numbers (SINs):
SIN 541690E: ENERGY CONSULTING SERVICES

PSFEI engages seasoned practitioners to travel to your training site to provide you with relevant, site-tailored, Federal Buildings Personnel Training Act (FBPTA)-aligned course material via one of six fundamental, building-block courses: Effective Facility Operations and Maintenance, Fundamentals of Effective Facility Commissioning, Fundamentals of High Performance Buildings, Facility Infrastructure Fundamentals, Facilities Water Conservation and Maintenance, and Smart Building Operations Training. Since 2005, PSFEI has trained more than 5,800 GSA Public Buildings Service personnel by conducting over 270 classes. The course performance has been highly rated with 95% receiving Excellent (highest) or Very Good ratings on a five-tier scale.

Course materials are delivered from the perspective of experience rather than theory. While the course material is prepared for property managers who may have limited technical experience, the technical information is presented at a fundamental level that is appropriate and engaging for both technical and non-technical course participants.

Course participants who complete the training will gain a fundamental understanding of key definitions and principles such as sustainability, energy efficiency, code compliance, safety, functionality, etc. relative to buildings and building systems. Participants leave each course with a greater appreciation of their impact upon the natural and built environments, seeking out opportunities for improvement at home and in their professional lives.
EFOM—Effective Facility Operations and Maintenance

In alignment with the FBPTA, the Effective Facility Operations and Maintenance (EFOM) course is a practical hands-on course designed to assist the facilities professional with managing their building maintenance program and operations and maintenance (O&M) contracts. This course will include instruction on the best maintenance practices for heating, ventilating, and air conditioning (HVAC); plumbing; electrical; and elevator systems. Instructors will guide the course participants through the maintenance requirements of specific pieces of equipment within the facility. Instructors emphasize the energy savings related to proper maintenance.

FEFC—Fundamentals of Effective Facility Commissioning

In alignment with the FBPTA, the Fundamentals of Effective Facility Commissioning (FEFC) course is designed to assist the facilities professional with optimizing the performance of their facility. Course participants will learn the concepts of initial commissioning, retro-commissioning, recommissioning, ongoing commissioning, and the difference between the various commissioning methods. Through numerous case studies, participants will become familiar with managing the commissioning process, including measurement, verification, phasing, and the commissioning agent’s duties.

FHPB—Fundamentals of High Performance Buildings

In alignment with the FBPTA, the Fundamentals of High Performance Buildings (FHPB) course builds on the material presented in FIFT. Course participants will gain an understanding the high-performance sustainable infrastructure. Facilities professionals will learn the technologies that optimize system efficiency and promote sustainability resulting in a high performance building. This course includes electrical metering, high-efficiency lighting and controls, building automation systems, leading-edge HVAC technology, water conservation, and building-envelope strategies to optimize building performance.
FIFT—Facility Infrastructure Fundamentals Training

In alignment with the FBPTA, the Facilities Infrastructure Fundamentals Training (FIFT) course provides facilities professionals with the basics of the most critical building systems including electrical (power distribution, emergency lighting, uninterruptible power supply [UPS]), HVAC, elevators, fire and security, and building envelope. This course offers a new perspective to facilities personnel who enter buildings every day to operate, maintain, or manage them. Course participants will explore building systems and their complex interactions through lectures, interactive case studies, exhibits, experiments, and guided building tours.

FWCM—Facilities Water Conservation and Management

In alignment with the FBPTA, the Facilities Water and Conservation Management (FWCM) course teaches facilities professionals technologies that optimize water and system efficiency and promote sustainability and conservation resulting in a high-performance, water-conserving building. Course participants will gain an understanding of how water consumption in a building is a function of operating the building and creating comfort and an aesthetically pleasing environment for the tenants. Instructors will articulate the federal government’s need for reduction in water consumption as specified in EO 13693.

SBOT—Smart Building Operations Training

In alignment with the FBPTA, the Smart Building Operations Training (SBOT) course is the next step for optimizing the functionality of high performance buildings. Facilities professionals will learn how technology and the smart building concept can be used to maximize building performance. By integrating all the buildings systems and their data, building owners can control facilities through technology to improve energy efficiency, enhance operational effectiveness, and increase tenant satisfaction. This includes building control and management systems such as GSAlink and National Computerized Maintenance Management System (NCMMS) and building commissioning.
PARTIAL CLIENT LIST
# FEDERAL SUPPLY SCHEDULE PRICE LIST

<table>
<thead>
<tr>
<th>SIN(s) Proposed</th>
<th>Course Title</th>
<th>Course Length</th>
<th>Unit of Issue</th>
<th>Minimum Participants</th>
<th>Maximum Participants</th>
<th>Most Favored Federal Agency</th>
<th>Price Offered to GSA (Excluding IFF)</th>
<th>Price Offered to GSA (Including IFF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>541690E</td>
<td>EFOM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$27,605.77¹</td>
<td>$28,088.87¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FEFC</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$27,605.77¹</td>
<td>$28,088.87¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FHPB</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$27,605.77¹</td>
<td>$28,088.87¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FIFT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$27,605.77¹</td>
<td>$28,088.87¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FWCM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$27,605.77¹</td>
<td>$28,088.87¹</td>
</tr>
<tr>
<td>541690E</td>
<td>SBOT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$27,605.77¹</td>
<td>$28,088.87¹</td>
</tr>
</tbody>
</table>

**PRICE LIST CALENDAR YEAR 2022**

<table>
<thead>
<tr>
<th>SIN(s) Proposed</th>
<th>Course Title</th>
<th>Course Length</th>
<th>Unit of Issue</th>
<th>Minimum Participants</th>
<th>Maximum Participants</th>
<th>Most Favored Federal Agency</th>
<th>Price Offered to GSA (Excluding IFF)</th>
<th>Price Offered to GSA (Including IFF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>541690E</td>
<td>EFOM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,157.89¹</td>
<td>$28,650.65¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FEFC</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,157.89¹</td>
<td>$28,650.65¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FHPB</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,157.89¹</td>
<td>$28,650.65¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FIFT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,157.89¹</td>
<td>$28,650.65¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FWCM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,157.89¹</td>
<td>$28,650.65¹</td>
</tr>
<tr>
<td>541690E</td>
<td>SBOT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,157.89¹</td>
<td>$28,650.65¹</td>
</tr>
</tbody>
</table>

**PRICE LIST CALENDAR YEAR 2023**

<table>
<thead>
<tr>
<th>SIN(s) Proposed</th>
<th>Course Title</th>
<th>Course Length</th>
<th>Unit of Issue</th>
<th>Minimum Participants</th>
<th>Maximum Participants</th>
<th>Most Favored Federal Agency</th>
<th>Price Offered to GSA (Excluding IFF)</th>
<th>Price Offered to GSA (Including IFF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>541690E</td>
<td>EFOM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,721.05¹</td>
<td>$29,223.67¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FEFC</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,721.05¹</td>
<td>$29,223.67¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FHPB</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,721.05¹</td>
<td>$29,223.67¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FIFT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,721.05¹</td>
<td>$29,223.67¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FWCM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,721.05¹</td>
<td>$29,223.67¹</td>
</tr>
<tr>
<td>541690E</td>
<td>SBOT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$28,721.05¹</td>
<td>$29,223.67¹</td>
</tr>
</tbody>
</table>

**PRICE LIST CALENDAR YEAR 2024**

<table>
<thead>
<tr>
<th>SIN(s) Proposed</th>
<th>Course Title</th>
<th>Course Length</th>
<th>Unit of Issue</th>
<th>Minimum Participants</th>
<th>Maximum Participants</th>
<th>Most Favored Federal Agency</th>
<th>Price Offered to GSA (Excluding IFF)</th>
<th>Price Offered to GSA (Including IFF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>541690E</td>
<td>EFOM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$29,295.47¹</td>
<td>$29,808.14¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FEFC</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$29,295.47¹</td>
<td>$29,808.14¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FHPB</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$29,295.47¹</td>
<td>$29,808.14¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FIFT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$29,295.47¹</td>
<td>$29,808.14¹</td>
</tr>
<tr>
<td>541690E</td>
<td>FWCM</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$29,295.47¹</td>
<td>$29,808.14¹</td>
</tr>
<tr>
<td>541690E</td>
<td>SBOT</td>
<td>3 Days</td>
<td>Course</td>
<td>10</td>
<td>25</td>
<td>GSA</td>
<td>$29,295.47¹</td>
<td>$29,808.14¹</td>
</tr>
</tbody>
</table>

*Continued page 10*
GSA Contract Number GS-21F-025CA

The customer provides the training venue (classroom) with audio and video equipment and agrees to make the facility available as a teaching tool.

Quantity/Volume Discounts: 2% discount on four or more courses within a given federal region within a six-month period.
CUSTOMER INFORMATION

1a. Table of awarded special item number(s):
   SIN 541690E–Energy Consulting Services
   SIN OLM–Order Level Materials.

1b. Identification of the lowest price: All prices referred to in the Federal Supply Schedule Price List are the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price.

1c. Contractor services with hourly rates: Not applicable

2. Maximum order: $1,000,000.00

3. Minimum order: $100.00

4. Geographic coverage (delivery area): Domestic

5. Points of production: The Pennsylvania State University, State College, PA 16801

6. Discount from list prices or statement of net prices: 1.75% off the commercial price list on each course.

7. Quantity discounts: 2% discount on four or more courses within a given federal region within a six-month period.

8. Prompt payment terms: None—net 30 days

9. Foreign items: Not applicable

10a. Time of delivery: 90 days

10b. Expedited Delivery: 45 days. Items available for expedited delivery are noted in this price list.

10c. Overnight and 2-day delivery: Not applicable

10d. Urgent Requirements: Not applicable
11. F.O.B point(s):
   Penn State Facilities Engineering Institute
   135 East Nittany Avenue, Suite 414
   State College, PA 16801

12a. Ordering address(es):
   Penn State Facilities Engineering Institute
   135 East Nittany Avenue, Suite 414
   State College, PA 16801
   Contract Administrator: Mark A. Bodenschatz
   Phone: 814-865-7615
   Email: psfei@psu.edu

13. Payment address(es):
   Penn State Facilities Engineering Institute
   135 East Nittany Avenue, Suite 414
   State College, PA 16801
   Wire transfer also accepted. Please contact the Contract Administrator.

14. Warranty provision: Not applicable

15. Export packaging charges: Not applicable

16. Terms and conditions of rental, maintenance, and repair (if applicable): Not applicable

17. Terms and conditions of installation (if applicable): Not applicable

18a. Terms and conditions of repair parts indicating parts price lists and any discounts from list prices (if applicable): Not applicable

18b. Terms and conditions for any other services (if applicable): Not applicable

19. List of service and distribution points (if applicable): Not applicable

20. List of participating dealers (if applicable): Not applicable

21. Preventative Maintenance (if applicable): Not applicable

22a. Special attributes such as environmental attributes, (e.g., recycled content, energy efficiency, reduced pollutants, etc.): Not applicable
22b. If applicable, indicate that Section 508 Compliance Information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found: Not applicable.

23. Data Universal Number System (DUNS) Number: 003403953

24. Notification regarding registration System for Award Management (SAM) database: Registered Cage Code: 7A720