

## GENERAL SERVICES ADMINISTRATION AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST FEDERAL SUPPLY SCHEDULE CATALOG/PRICE LIST

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 for GSA Advantage!® is: [GSAAdvantage.gov](http://GSAAdvantage.gov).

<b>Schedule Title:</b>	<b>Multiple Award Schedule (MAS)</b>
<b>Contract Number:</b>	47QSWA-19-D-002W
<b>Contract Period:</b>	Base period 01/17/2019 – 01/16/2024, incl. options 01/16/2039
<b>Contractor Name:</b>	M.C. Dean, Inc.
<b>Contractor Address:</b>	1765 Greensboro Station Place, Suite 1400, Tysons, VA
<b>Contractor Phone:</b>	(703) 802-6231
<b>Contractor Fax:</b>	(703) 421-4670
<b>Internet Address:</b>	<a href="http://www.mcdean.com">www.mcdean.com</a>
<b>Email Address:</b>	<a href="mailto:MCDean.GSA84.ESS@MCDean.com">MCDean.GSA84.ESS@MCDean.com</a>
<b>Business Size:</b>	Other Than Small (Large)
<b>SIN #:</b>	<b>334290PACS</b> – Physical Access Control Systems (PACS) - FIPS 201 <b>334512</b> – Total Solution Support Products for Facilities Management Systems <b>541330ENG</b> – Engineering Services <b>541330L</b> – Security System Integration, Design, Management, and Life Cycle Support <b>541330SEC</b> – Security System Integration, Design, Management, and Life Cycle Support <b>54151S</b> – Information Technology Professional Services <b>541611</b> – Management and Financial Consulting, Acquisition and Grants Management Support, and Business Program and Project Management Services <b>561210SB</b> – Smart Buildings Systems Integrator <b>541513</b> – Smart Buildings Systems Integration <b>541690E</b> – Energy Consulting Services <b>561210FAC</b> – Complete Facilities Maintenance and Management <b>561210FS</b> – Facilities Support Services <b>541420</b> – Engineering System Design and Integration Services <b>238910</b> – Installation and Site Preparation Services <b>ANCRA</b> – Ancillary Repair and Alterations <b>ANCILLARY</b> – Ancillary Supplies and Services <b>NEW</b> – Introduction of New Supplies and Services <b>OLM</b> – Order-Level Materials (OLM)

For more information on ordering from Federal Supply Schedules, click on the FSS Schedules button at [fss.gsa.gov](http://fss.gsa.gov).

*Price list current as of February 11, 2021(Contract Mod #PS-0026)*

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### 1a: Awarded Special Item Numbers (SINS)

**334290PACS** – Physical Access Control Systems (PACS) - FIPS 201

**334512** – Total Solution Support Products for Facilities Management Systems

**541330ENG** – Engineering Services

**541330L** – Security System Integration, Design, Management, and Life Cycle Support

**541330SEC** – Security System Integration, Design, Management, and Life Cycle Support

**54151S** – Information Technology Professional Services

**541611** – Management and Financial Consulting, Acquisition and Grants Management Support, and Business Program and Project Management Services

**561210SB** – Smart Buildings Systems Integrator

**541513** – Smart Buildings Systems Integration

**541690E** – Energy Consulting Services

**561210FAC** – Complete Facilities Maintenance and Management

**561210FS** – Facilities Support Services

**541420** – Engineering System Design and Integration Services

**238910** – Installation and Site Preparation Services

**ANCRA** – Ancillary Repair and Alterations

**ANCILLARY** – Ancillary Supplies and Services

**NEW** – Introduction of New Supplies and Services

**OLM** – Order-Level Materials (OLM)

### 1b: Lowest Price Model Number and Lowest Unit Price for Each SIN

See price list.

### 1c: Hourly Rate Information

See Appendix A: Hourly Rate Information.

### 2: Maximum Order

334290PACS; 334512; 541330L; 541330SEC - \$250,000

561210SB - \$1,000,000

### 3: Minimum Order

\$50

### 4: Geographic Coverage (Delivery Order)

Worldwide

### 5: Point(s) of Production

Tysons, VA, USA

### 6: Discount from List Prices or Statement of Net Price

All prices are net.

### 7: Quantity Discounts

0.5% on individual task orders over \$1,000,000.

### 8: Prompt Payment Terms

Net 30. Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.

### 9: Government Purchase Cards

M.C. Dean accepts Government Purchase Cards at, below, or above the Micro-Purchase Threshold of \$10,000.

### 10: Foreign Items

Not applicable.

### 11A: Time of Delivery

Determined on a task order basis. To be negotiated between the contractor and ordering agency.

### 11B: Expedited Delivery

Determined on a task order basis. To be negotiated between the contractor and ordering agency.

### 11C: Overnight and 2-Day Delivery

Determined on a task order basis. To be negotiated between the contractor and ordering agency.

### 11D: Urgent Requirements

M.C. Dean will provide our customer a dedicated Point of Contact upon task order award. Customers are encouraged to contact this individual directly for any urgent requirements.

### 12: FOB Points

Destination.

### 13: Ordering Procedures

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPAs), and a sample BPA can be found at the GSA/FSS Schedule homepage ([fss.gsa.gov/schedules](https://fss.gsa.gov/schedules)) and in Federal Acquisition Regulation (FAR) 8.405-3

### 14: Payment Addresses

M.C. Dean, Inc.  
P.O. Box 532232  
Atlanta, GA 30353-2232

### 15: Warranty Provision

Not applicable.

### 16: Export Packing Charges

Not applicable.

### 17: Terms and Conditions of Government Purchase Card Acceptance

M.C. Dean will accept Government Purchase Cards at all levels.

### 18: Terms and Conditions of Rental, Maintenance, and Repair

Not applicable.

### 19: Terms and Conditions of Installation

Not applicable.

### 20: Terms and Conditions of Repair Parts

Not applicable.

### 20A: Terms and Conditions for Any Other Services

Not applicable.

### 21: List of Service and Distribution Points

Not applicable.

### 22: List of Participating Dealers

Not applicable.

### 23: Preventive Maintenance

Not applicable.

### 24A: Special Attributes

ISO 9001:2015 Certified  
CMMI Level 3 Certified  
LEED Certified  
EPA EnergyStar Partner  
Department of Energy (DOE) Energy Service Company  
Designated one of "America's Safest Companies" (EHS Today, 2017)

### 24B: Section 508A Compliance

Not applicable.

### 25: Data Universal Number System (DUNS) Number

04-3203249

### 26: Notification Regarding Registration in Central Contractor Registration (CCR) Database

M.C. Dean maintains an active SAM registration; CAGE code 3K773.

### 27: Terms and Conditions for Overtime

When overtime is required, the Labor Category will be billed at 1.5 times the standard labor rate.

## APPENDIX A: HOURLY RATE INFORMATION

The below Labor Categories can be used with the following SINs 334290PACS; 334512; 541330L; 541330SEC; 561210SB; 541330ENG; 541611; 541513; 541690E; 561210FAC; 561210FS; 541420; 238910; ANCRA, NEW; 54151S.

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Program Manager</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field	10 years	\$ 123.83	\$ 127.30	\$ 130.86	\$ 134.52	\$ 138.29
<b>Project Manager 3</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field	6-9 years	\$ 111.98	\$ 115.12	\$ 118.35	\$ 121.66	\$ 125.07
<b>Project Manager 2</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field	3-5 years	\$ 106.45	\$ 109.43	\$ 112.50	\$ 115.65	\$ 118.89
<b>Subject Matter Expert (IT)</b>	MS in Engineering, Computer Science, Mathematics, Financial, or Business	15 years	\$ 306.89	\$ 315.48	\$ 324.31	\$ 333.39	\$ 342.72
<b>Systems Architect (IT)</b>	Master's Degree	15 years	\$ 215.92	\$ 221.96	\$ 228.17	\$ 234.56	\$ 241.13
<b>Senior Network Engineer (IT)</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	6-10 years	\$ 147.00	\$ 151.12	\$ 155.35	\$ 159.70	\$ 164.18
<b>Network Engineer (IT)</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	3-5 years	\$ 137.96	\$ 141.82	\$ 145.79	\$ 149.87	\$ 154.07
<b>Jr. Network Engineer (IT)</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field	Up to 3 years	\$ 125.22	\$ 128.73	\$ 132.33	\$ 136.04	\$ 139.85
<b>Sr. Design Engineer</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	6-10 years	\$ 106.14	\$ 109.11	\$ 112.16	\$ 115.30	\$ 118.53
<b>System Engineer 2</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field;	3-5 years	\$ 97.89	\$ 100.64	\$ 103.45	\$ 106.35	\$ 109.33
<b>System Engineer 1</b>	BS in Engineering, Computer Science, Mathematics, Economics, or other field	Up to 3 years	\$ 68.79	\$ 70.72	\$ 72.70	\$ 74.73	\$ 76.83
<b>Tech Specialist</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	10+ years	\$ 99.11	\$ 101.88	\$ 104.73	\$ 107.67	\$ 110.68

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<b>Programmer 3</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	8-10 years	\$ 89.30	\$ 91.80	\$ 94.37	\$ 97.01	\$ 99.73
<b>Programmer 2</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	5-7 years	\$ 84.54	\$ 86.91	\$ 89.34	\$ 91.85	\$ 94.42
<b>System Admin 2</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	3-5 years	\$ 81.55	\$ 83.83	\$ 86.18	\$ 88.59	\$ 91.07
<b>System Admin 1</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	Up to 3 years	\$ 56.03	\$ 57.60	\$ 59.21	\$ 60.87	\$ 62.57
<b>Technician 3</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	8-10 years	\$ 74.44	\$ 76.52	\$ 78.67	\$ 80.87	\$ 83.13
<b>Technician 2</b>	High School Graduate; Vendor certification such as Lenel, Hirsch, or Software House	3-7 years	\$ 71.59	\$ 73.59	\$ 75.65	\$ 77.77	\$ 79.95
<b>Technician 1</b>	High School Graduate	Up to 3 years	\$ 64.42	\$ 66.23	\$ 68.08	\$ 69.99	\$ 71.95
<b>FAC Electrical Apprentice I</b>	High School Graduate	0	\$ 34.56	\$ 35.49	\$ 36.49	\$ 37.51	\$ 38.56
<b>FAC Electrical Apprentice II</b>	High School Graduate	1	\$ 41.02	\$ 42.14	\$ 43.31	\$ 44.53	\$ 45.77
<b>FAC Electrical Apprentice III</b>	High School Graduate	2	\$ 45.26	\$ 46.48	\$ 47.78	\$ 49.12	\$ 50.49
<b>FAC Electrical Apprentice IV</b>	High School Graduate	3	\$ 50.81	\$ 52.18	\$ 53.64	\$ 55.15	\$ 56.69
<b>FAC Building Operations Center Manager</b>	Bachelors	12	\$ 113.71	\$ 116.78	\$ 120.05	\$ 123.41	\$ 126.87
<b>FAC Building Operation Center Specialists</b>	High School Graduate	3	\$ 68.57	\$ 70.42	\$ 72.40	\$ 74.42	\$ 76.51

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>FAC COMM TECH I</b>	High School Graduate	1	\$ 53.16	\$ 54.59	\$ 56.12	\$ 57.69	\$ 59.31
<b>FAC COMM TECH II</b>	High School Graduate	4	\$ 61.95	\$ 63.63	\$ 65.41	\$ 67.24	\$ 69.12
<b>FAC Construction Surveillance Tech</b>	High School Graduate	5	\$ 39.17	\$ 40.23	\$ 41.36	\$ 42.52	\$ 43.71
<b>FAC Control Tech I</b>	High School Graduate	1	\$ 54.53	\$ 55.99	\$ 57.56	\$ 59.17	\$ 60.83
<b>FAC Control Tech II</b>	High School Graduate	1	\$ 73.02	\$ 74.99	\$ 77.09	\$ 79.25	\$ 81.47
<b>FAC Control Tech III</b>	High School Graduate	2	\$ 76.39	\$ 78.45	\$ 80.65	\$ 82.91	\$ 85.23
<b>FAC Control Tech IV</b>	High School Graduate	3	\$ 90.09	\$ 92.52	\$ 95.11	\$ 97.77	\$ 100.51
<b>FAC Electrician I</b>	High School Graduate	2	\$ 57.96	\$ 59.53	\$ 61.19	\$ 62.91	\$ 64.67
<b>FAC Electrician II</b>	High School Graduate	3	\$ 67.28	\$ 69.10	\$ 71.03	\$ 73.02	\$ 75.07
<b>FAC Electronics Tech</b>	High School Graduate	4	\$ 66.86	\$ 68.67	\$ 70.60	\$ 72.57	\$ 74.61
<b>FAC Equipment Mgr</b>	High School Graduate	2	\$ 89.46	\$ 91.88	\$ 94.45	\$ 97.10	\$ 99.82
<b>FAC Fire Alarm Tech I</b>	High School Graduate	2	\$ 54.18	\$ 55.65	\$ 57.21	\$ 58.81	\$ 60.46
<b>FAC Fire Alarm Tech II</b>	High School Graduate	4	\$ 99.01	\$ 101.69	\$ 104.53	\$ 107.46	\$ 110.47
<b>FAC Foreman</b>	High School Graduate	3	\$ 75.27	\$ 77.30	\$ 79.47	\$ 81.69	\$ 83.98

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<b>FAC General Maint Tech I</b>	High School Graduate	3	\$ 37.40	\$ 38.42	\$ 39.49	\$ 40.60	\$ 41.74
<b>FAC General Maint Tech II</b>	High School Graduate	5	\$ 53.11	\$ 54.55	\$ 56.08	\$ 57.65	\$ 59.27
<b>FAC Generator Tech I</b>	High School Graduate	0	\$ 59.12	\$ 60.72	\$ 62.42	\$ 64.17	\$ 65.97
<b>FAC Generator Tech II</b>	High School Graduate	2	\$ 107.33	\$ 110.23	\$ 113.31	\$ 116.48	\$ 119.75
<b>FAC HVAC Tech I</b>	High School Graduate	3	\$ 58.74	\$ 60.32	\$ 62.01	\$ 63.75	\$ 65.53
<b>FAC HVAC Tech II</b>	High School Graduate	4	\$ 80.39	\$ 82.56	\$ 84.87	\$ 87.25	\$ 89.69
<b>FAC HVAC Tech III</b>	High School Graduate	6	\$ 89.77	\$ 92.19	\$ 94.77	\$ 97.42	\$ 100.15
<b>FAC Laborer</b>	High School Graduate	0	\$ 35.78	\$ 36.74	\$ 37.77	\$ 38.83	\$ 39.91
<b>FAC Mechanical Systems Op I</b>	High School Graduate	1	\$ 95.88	\$ 98.47	\$ 101.23	\$ 104.06	\$ 106.98
<b>FAC Mechanical Systems Op II</b>	High School Graduate	2	\$ 104.09	\$ 106.90	\$ 109.89	\$ 112.97	\$ 116.13
<b>FAC Pipe Fitter</b>	High School Graduate	3	\$ 62.68	\$ 64.38	\$ 66.18	\$ 68.04	\$ 69.94
<b>FAC Plumber</b>	High School Graduate	5	\$ 68.26	\$ 70.11	\$ 72.07	\$ 74.09	\$ 76.16
<b>FAC Power Systems Field Service Tech I</b>	Bachelors	7	\$ 88.49	\$ 90.88	\$ 93.43	\$ 96.04	\$ 98.73
<b>FAC Power Systems Field Service Tech II</b>	Bachelors	10	\$ 101.14	\$ 103.87	\$ 106.78	\$ 109.77	\$ 112.85

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>FAC Service Tech I</b>	High School Graduate	2	\$ 52.78	\$ 54.21	\$ 55.73	\$ 57.29	\$ 58.89
<b>FAC Service Tech II</b>	High School Graduate	4	\$ 56.33	\$ 57.85	\$ 59.47	\$ 61.13	\$ 62.85
<b>FAC Service Tech III</b>	High School Graduate	4	\$ 66.51	\$ 68.30	\$ 70.21	\$ 72.18	\$ 74.20
<b>FAC Service Superintendent</b>	High School Graduate	2	\$ 101.08	\$ 103.81	\$ 106.72	\$ 109.70	\$ 112.78
<b>FAC Warehouse Mgr</b>	High School Graduate	5	\$ 83.95	\$ 86.22	\$ 88.63	\$ 91.11	\$ 93.66
<b>FAC Warehouse Worker I</b>	High School Graduate	2	\$ 69.70	\$ 71.59	\$ 73.60	\$ 75.66	\$ 77.78
<b>FAC CAD Operator 2</b>	High School Graduate	3	\$ 56.22	\$ 57.74	\$ 59.36	\$ 61.02	\$ 62.73
<b>FAC CAD Operator 3</b>	High School Graduate	4	\$ 67.02	\$ 68.83	\$ 70.75	\$ 72.73	\$ 74.77
<b>FAC Office Engineer 1</b>	Bachelors	0	\$ 68.88	\$ 70.74	\$ 72.72	\$ 74.76	\$ 76.85
<b>FAC Office Engineer 3</b>	Bachelors	5	\$ 94.41	\$ 96.96	\$ 99.67	\$ 102.46	\$ 105.33
<b>FAC Project Admin 1</b>	High School Graduate	2	\$ 40.50	\$ 41.59	\$ 42.76	\$ 43.96	\$ 45.19
<b>FAC Project Admin 2</b>	High School Graduate	4	\$ 58.86	\$ 60.45	\$ 62.14	\$ 63.88	\$ 65.67
<b>FAC Project Manager 1</b>	Bachelors	7	\$ 113.08	\$ 116.14	\$ 119.39	\$ 122.73	\$ 126.17
<b>FAC Project Manager 2</b>	Bachelors	10	\$ 133.00	\$ 136.59	\$ 140.41	\$ 144.35	\$ 148.39

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>FAC Project Manager 3</b>	Bachelors	10	\$ 143.66	\$ 147.54	\$ 151.67	\$ 155.92	\$ 160.28
<b>FAC Quality Eng 1</b>	Bachelors	0	\$ 74.42	\$ 76.42	\$ 78.56	\$ 80.76	\$ 83.02
<b>FAC Quality Eng 2</b>	Bachelors	2	\$ 79.02	\$ 81.15	\$ 83.42	\$ 85.76	\$ 88.16
<b>FAC Quality Eng 3</b>	Bachelors	5	\$ 84.48	\$ 86.76	\$ 89.19	\$ 91.69	\$ 94.25
<b>FAC Quality Eng 4</b>	Bachelors	7	\$ 102.48	\$ 105.25	\$ 108.20	\$ 111.23	\$ 114.34
<b>FAC Quality Manager</b>	Bachelors	10	\$ 108.26	\$ 111.19	\$ 114.31	\$ 117.51	\$ 120.80
<b>FAC Safety Manager 1</b>	High School Graduate	6	\$ 65.33	\$ 67.10	\$ 68.98	\$ 70.91	\$ 72.89
<b>FAC Safety Manager 2</b>	High School Graduate	8	\$ 67.29	\$ 69.10	\$ 71.04	\$ 73.03	\$ 75.07
<b>FAC Safety Division Mgr</b>	Associates	10	\$ 69.24	\$ 71.11	\$ 73.10	\$ 75.15	\$ 77.25
<b>FAC Safety Manager</b>	High School Graduate	8	\$ 71.21	\$ 73.13	\$ 75.18	\$ 77.29	\$ 79.45
<b>FAC Scheduler</b>	High School Graduate	2	\$ 73.17	\$ 75.15	\$ 77.25	\$ 79.42	\$ 81.64
<b>FAC Carpenter</b>	High School Graduate	3	\$ 46.47	\$ 48.09	\$ 49.43	\$ 50.82	\$ 52.24
<b>FAC Painter</b>	Formal apprenticeship or equivalent training and experience	4	\$ 46.47	\$ 48.09	\$ 49.43	\$ 50.82	\$ 52.24
<b>FAC Locksmith</b>	Completion of a recognized apprenticeship or vocational program for a locksmith	4	\$ 54.02	\$ 55.90	\$ 57.46	\$ 59.07	\$ 60.73

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Data Center Engineer	High School or GED	4	\$ 69.99	\$ 70.97	\$ 72.96	\$ 75.00	\$ 77.11
Data Center Facility Manager	Bachelors, Engineering	5	\$ 95.44	\$ 96.79	\$ 99.50	\$ 102.28	\$ 105.15
Data Center Operations - Manager	Professional Certification	10	\$ 116.65	\$ 118.29	\$ 121.60	\$ 125.01	\$ 128.51
REM I	Bachelors	3	N/A	\$ 191.67	\$ 197.03	\$ 202.55	\$ 208.22
REM II	Bachelors	5	N/A	\$ 230.34	\$ 236.79	\$ 243.42	\$ 250.24
REM III	Bachelors	9	N/A	\$ 278.57	\$ 286.37	\$ 294.38	\$ 302.63
Planning and Programming Facilitator	Bachelors	2	N/A	\$ 191.67	\$ 197.03	\$ 202.55	\$ 208.22
IT Program/ Project Manager	Bachelors	10	N/A	\$ 166.88	\$ 171.55	\$ 176.36	\$ 181.29
IT Subject Matter Expert	Masters	15	N/A	\$ 303.68	\$ 312.19	\$ 320.93	\$ 329.91
IT Systems Architect	Masters	15	N/A	\$ 213.66	\$ 219.65	\$ 225.80	\$ 232.11
IT Systems Engineer	Bachelors	3	N/A	\$ 134.05	\$ 137.80	\$ 141.66	\$ 145.63
IT Design Engineer	Bachelors	5	N/A	\$ 125.76	\$ 129.29	\$ 132.91	\$ 136.62
IT Jr. Design Engineer	Bachelors	3	N/A	\$ 100.56	\$ 103.37	\$ 106.27	\$ 109.24
IT Network Architect	Masters	15	N/A	\$ 364.71	\$ 374.92	\$ 385.41	\$ 396.21

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
IT Senior Network Engineer	Bachelors	6	N/A	\$ 141.93	\$ 145.90	\$ 149.99	\$ 154.19
IT Network Engineer	Bachelors	3	N/A	\$ 133.20	\$ 136.93	\$ 140.76	\$ 144.70
IT Jr. Network Engineer	Bachelors	3	N/A	\$ 120.90	\$ 124.28	\$ 127.76	\$ 131.34
IT Senior Security Engineer	Bachelors	6	N/A	\$ 253.70	\$ 260.81	\$ 268.11	\$ 275.61
IT Security Engineer	Bachelors	3	N/A	\$ 139.53	\$ 143.44	\$ 147.45	\$ 151.58
IT Jr. Security Engineer	Bachelors	3	N/A	\$ 89.88	\$ 92.39	\$ 94.98	\$ 97.64
IT Software Architect	Masters	15	N/A	\$ 258.13	\$ 265.36	\$ 272.79	\$ 280.43
IT Senior Software Engineer	Bachelors	6	N/A	\$ 164.97	\$ 169.59	\$ 174.34	\$ 179.22
IT Software Engineer	Bachelors	3	N/A	\$ 130.74	\$ 134.40	\$ 138.16	\$ 142.03
IT Jr. Software Engineer	Bachelors	3	N/A	\$ 92.60	\$ 95.20	\$ 97.86	\$ 100.60
IT Sr. Enterprise Engineer	Bachelors	6	N/A	\$ 196.11	\$ 201.61	\$ 207.25	\$ 213.05
IT Enterprise Engineer	Bachelors	3	N/A	\$ 142.45	\$ 146.44	\$ 150.54	\$ 154.76
IT Senior Requirements Analyst	Bachelors	6	N/A	\$ 199.44	\$ 205.02	\$ 210.76	\$ 216.66
IT Requirements Analyst	Bachelors	5	N/A	\$ 109.76	\$ 112.84	\$ 116.00	\$ 119.24

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
IT Jr. Requirements Analyst	Bachelors	3	N/A	\$ 73.54	\$ 75.60	\$ 77.71	\$ 79.89
IT Senior Technician	Associates	8	N/A	\$ 142.69	\$ 146.68	\$ 150.79	\$ 155.01
IT Technician	Associates	5	N/A	\$ 95.85	\$ 98.54	\$ 101.30	\$ 104.13
IT Jr. Technician	Associates	3	N/A	\$ 72.57	\$ 74.61	\$ 76.70	\$ 78.84
Senior Program Manager	Bachelors	12	N/A	\$ 230.07	\$ 236.51	\$ 243.13	\$ 249.94
Senior O&M Manager	Bachelors	10	N/A	\$ 181.68	\$ 186.77	\$ 192.00	\$ 197.38
Senior Quality Control Manager	Bachelors	10	N/A	\$ 159.96	\$ 164.44	\$ 169.04	\$ 173.78
Senior Health, Safety & Environmental Inspector	Bachelors	10	N/A	\$ 136.26	\$ 140.08	\$ 144.00	\$ 148.03
Senior Contract Administrator	Bachelors	12	N/A	\$ 148.11	\$ 152.26	\$ 156.52	\$ 160.90
Supervisory Work Control Manager	High School	7	N/A	\$ 157.00	\$ 161.39	\$ 165.91	\$ 170.56
Senior Work Control Manager	High School	7	N/A	\$ 127.38	\$ 130.94	\$ 134.61	\$ 138.38
Senior Finance Manager	Bachelors	10	N/A	\$ 153.05	\$ 157.33	\$ 161.74	\$ 166.27
Senior HR Specialist	High School	7	N/A	\$ 104.66	\$ 107.60	\$ 110.61	\$ 113.71
Cost Estimator	High School	5	N/A	\$ 118.49	\$ 121.81	\$ 125.22	\$ 128.72

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Senior Production Control Clerk	High School	5	N/A	\$ 69.37	\$ 71.31	\$ 73.30	\$ 75.36
Production Control Clerk	High School	4	N/A	\$ 50.85	\$ 52.28	\$ 53.74	\$ 55.24
Scheduler, Maintenance	High School	4	N/A	\$ 71.59	\$ 73.59	\$ 75.65	\$ 77.77
Computer Operator I	High School	4	N/A	\$ 51.35	\$ 52.78	\$ 54.26	\$ 55.78
Computer Operator II	High School	6	N/A	\$ 57.27	\$ 58.87	\$ 60.52	\$ 62.22
Computer Operator III	High School	8	N/A	\$ 62.21	\$ 63.95	\$ 65.74	\$ 67.58
Computer Operator IV	High School	10	N/A	\$ 68.13	\$ 70.04	\$ 72.00	\$ 74.02
Computer Operator V	High School	12	N/A	\$ 76.03	\$ 78.16	\$ 80.35	\$ 82.60
Accounting Clerk II	High School	4	N/A	\$ 59.24	\$ 60.90	\$ 62.61	\$ 64.36
General Clerk II	High School	4	N/A	\$ 47.89	\$ 49.23	\$ 50.61	\$ 52.03
General Clerk III	High School	6	N/A	\$ 71.09	\$ 73.08	\$ 75.13	\$ 77.23
Senior Administrative Assistant	High School	5	N/A	\$ 89.85	\$ 92.37	\$ 94.96	\$ 97.61
Order Clerk I	High School	3	N/A	\$ 56.28	\$ 57.86	\$ 59.48	\$ 61.14
Order Clerk II	High School	5	N/A	\$ 58.26	\$ 59.89	\$ 61.56	\$ 63.29

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
Order Clerk III	High School	7	N/A	\$ 87.88	\$ 90.34	\$ 92.87	\$ 95.47
Building Inspector	High School	5	N/A	\$ 67.14	\$ 69.02	\$ 70.96	\$ 72.94
Supply Technician	High School	3	N/A	\$ 89.36	\$ 91.86	\$ 94.43	\$ 97.08
Procurement Supervisor	High School	6	N/A	\$ 119.48	\$ 122.82	\$ 126.26	\$ 129.80
Procurement Specialist	High School	4	N/A	\$ 97.01	\$ 99.73	\$ 102.52	\$ 105.39
Material Expediter	High School	3	N/A	\$ 70.11	\$ 72.07	\$ 74.09	\$ 76.16
Stock Clerk	High School	3	N/A	\$ 54.80	\$ 56.34	\$ 57.91	\$ 59.53
Shipping/Receiving Clerk	High School	3	N/A	\$ 47.89	\$ 49.23	\$ 50.61	\$ 52.03
Senior Electrician Journeyman	High School	7	N/A	\$ 195.51	\$ 200.98	\$ 206.61	\$ 212.39
Senior Electrician Lead	High School	6	N/A	\$ 136.26	\$ 140.08	\$ 144.00	\$ 148.03
UPS Technician	High School	5	N/A	\$ 150.58	\$ 154.80	\$ 159.13	\$ 163.59
Fire Alarm Helper	High School	3	N/A	\$ 92.82	\$ 95.41	\$ 98.09	\$ 100.83
FAC Fire Alarm Tech III	High School	5	N/A	\$ 116.51	\$ 119.78	\$ 123.13	\$ 126.58
Elevator Journeyman Technician	High School	6	N/A	\$ 295.23	\$ 303.50	\$ 312.00	\$ 320.73

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Elevator Technician Helper</b>	High School	2	N/A	\$ 105.65	\$ 108.61	\$ 111.65	\$ 114.78
<b>Pneudralic Systems Mechanic</b>	High School	5	N/A	\$ 79.98	\$ 82.22	\$ 84.52	\$ 86.89
<b>Senior Generator Maintenance Mechanic</b>	High School	5	N/A	\$ 204.39	\$ 210.12	\$ 216.00	\$ 222.05
<b>Specialty Door Mechanic</b>	High School	5	N/A	\$ 116.51	\$ 119.78	\$ 123.13	\$ 126.58
<b>Senior HVAC Mechanic Lead</b>	High School	7	N/A	\$ 186.62	\$ 191.84	\$ 197.22	\$ 202.74
<b>Senior HVAC Mechanic Journeyman</b>	High School	7	N/A	\$ 121.45	\$ 124.85	\$ 128.35	\$ 131.94
<b>Ventilation Equipment Tender</b>	High School	5	N/A	\$ 84.92	\$ 87.29	\$ 89.74	\$ 92.25
<b>Senior Refrigeration Engineer</b>	High School	5	N/A	\$ 192.54	\$ 197.94	\$ 203.48	\$ 209.17
<b>Senior Maintenance Carpenter Lead</b>	High School	5	N/A	\$ 127.38	\$ 130.94	\$ 134.61	\$ 138.38
<b>Senior Maintenance Carpenter</b>	High School	7	N/A	\$ 82.94	\$ 85.26	\$ 87.65	\$ 90.11
<b>Woodworker</b>	High School	5	N/A	\$ 64.68	\$ 66.49	\$ 68.35	\$ 70.26
<b>General Maintenance Worker</b>	High School	2	N/A	\$ 66.16	\$ 68.01	\$ 69.91	\$ 71.87
<b>Senior Locksmith</b>	High School	6	N/A	\$ 94.79	\$ 97.45	\$ 100.17	\$ 102.98
<b>Senior Locksmith Lead</b>	High School	6	N/A	\$ 99.73	\$ 102.52	\$ 105.39	\$ 108.34

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Floor Tile Installer - Helper</b>	High School	2	N/A	\$ 92.82	\$ 95.41	\$ 98.09	\$ 100.83
<b>Floor Tile Installer - Journeyman</b>	High School	5	N/A	\$ 116.51	\$ 119.78	\$ 123.13	\$ 126.58
<b>Roofer-Helper</b>	High School	2	N/A	\$ 92.82	\$ 95.41	\$ 98.09	\$ 100.83
<b>Roofer</b>	High School	5	N/A	\$ 138.24	\$ 142.11	\$ 146.09	\$ 150.18
<b>Glass and Security Film Technician</b>	High School	5	N/A	\$ 79.98	\$ 82.22	\$ 84.52	\$ 86.89
<b>Senior Maintenance Painter</b>	High School	7	N/A	\$ 75.04	\$ 77.14	\$ 79.30	\$ 81.52
<b>Senior Maintenance Painter Lead</b>	High School	6	N/A	\$ 80.97	\$ 83.23	\$ 85.56	\$ 87.96
<b>Carpet Layer</b>	High School	4	N/A	\$ 78.99	\$ 81.20	\$ 83.48	\$ 85.82
<b>Sheet Metal Worker, Maintenance</b>	High School	5	N/A	\$ 88.87	\$ 91.35	\$ 93.91	\$ 96.54
<b>Senior Journeyman Plumber</b>	High School	7	N/A	\$ 174.77	\$ 179.66	\$ 184.69	\$ 189.87
<b>Senior Maintenance Plumber</b>	High School	7	N/A	\$ 116.51	\$ 119.78	\$ 123.13	\$ 126.58
<b>Water Treatment Plant Operator</b>	High School	4	N/A	\$ 93.80	\$ 96.43	\$ 99.13	\$ 101.91
<b>Pipefitter, Maintenance</b>	High School	5	N/A	\$ 111.58	\$ 114.70	\$ 117.91	\$ 121.21
<b>Boiler Tender</b>	High School	4	N/A	\$ 112.56	\$ 115.72	\$ 118.96	\$ 122.29

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Machinery Maintenance Mechanic</b>	High School	5	N/A	\$ 117.50	\$ 120.79	\$ 124.17	\$ 127.65
<b>Stationary Engineer</b>	High School	5	N/A	\$ 112.56	\$ 115.72	\$ 118.96	\$ 122.29
<b>Subject Matter Expert / Degreed Engineer</b>	Bachelors	10	N/A	\$ 300.17	\$ 308.58	\$ 317.22	\$ 326.10
<b>Maintenance Trades Helper</b>	High School	2	N/A	\$ 47.89	\$ 49.23	\$ 50.61	\$ 52.03
<b>Laborer</b>	High School	1	N/A	\$ 41.47	\$ 42.63	\$ 43.83	\$ 45.05
<b>Laborer, Grounds Maintenance Lead</b>	High School	4	N/A	\$ 67.39	\$ 69.28	\$ 71.22	\$ 73.21
<b>Laborer, Grounds Maintenance</b>	High School	2	N/A	\$ 48.14	\$ 49.48	\$ 50.87	\$ 52.29
<b>Gardener</b>	High School	3	N/A	\$ 60.73	\$ 62.43	\$ 64.17	\$ 65.97
<b>Tree Care Specialist</b>	High School	4	N/A	\$ 39.99	\$ 41.11	\$ 42.26	\$ 43.44
<b>Pest Controller, Lead</b>	High School	4	N/A	\$ 66.40	\$ 68.26	\$ 70.17	\$ 72.14
<b>Pest Controller</b>	High School	2	N/A	\$ 46.41	\$ 47.71	\$ 49.04	\$ 50.42
<b>Housekeeping Aide</b>	High School	1	N/A	\$ 39.50	\$ 40.60	\$ 41.74	\$ 42.91
<b>Dry Cleaner</b>	High School	1	N/A	\$ 32.83	\$ 33.75	\$ 34.70	\$ 35.67
<b>Window Cleaner</b>	High School	1	N/A	\$ 53.57	\$ 55.07	\$ 56.61	\$ 58.19

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Snow Removal Operator</b>	High School	1	N/A	\$123.43	\$126.88	\$130.43	\$134.09
<b>Snow Removal Supervisor</b>	High School	3	N/A	\$128.36	\$131.96	\$135.65	\$139.45
<b>Junior UPS Technician</b>	High School	0	N/A	\$135.27	\$139.06	\$142.96	\$146.96
<b>Senior UPS Technician</b>	High School	10	N/A	\$177.73	\$182.71	\$187.83	\$193.08
<b>Gas sweeper/ Blower</b>	None	0	N/A	\$37.13	\$38.17	\$39.23	\$40.33
<b>Front loader/ Bobcat</b>	None	0	N/A	\$121.01	\$124.39	\$127.88	\$131.46
<b>Dump/State body truck</b>	None	0	N/A	\$72.87	\$74.91	\$77.01	\$79.16

### CBA Rates Specific for Washington, DC IUOE

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Engineering Supervisor - CBA</b>	DC 1st Class Engineers license	7	\$ 114.77	\$ 117.87	\$ 121.17	\$ 124.56	\$ 128.05
<b>Asst. Chief Engineer (DC 1st) - CBA</b>	DC 3rd Class License	5	\$ 105.75	\$ 108.60	\$ 111.65	\$ 114.77	\$ 117.99
<b>Lead Engineer (DC 3rd) - CBA</b>	DC 3rd Class License	3	\$ 90.19	\$ 92.63	\$ 95.22	\$ 97.89	\$ 100.63

LCAT	MINIMUM EDUCATION/ CERTIFICATION LEVEL	MINIMUM YEARS OF EXPERIENCE	1/17/2019- 1/16/2020	1/17/2020- 1/16/2021	1/17/2021- 1/16/2022	1/17/2022- 1/16/2023	1/17/2023- 1/16/2024
<b>Engineer (DC 3rd) - CBA</b>	DC 3rd Class License	3	\$ 87.55	\$ 89.91	\$ 92.43	\$ 95.02	\$ 97.68
<b>HVAC Mechanic, Lead - CBA</b>	DC Journeyman's license and a CFC certification	4	\$ 89.28	\$ 91.69	\$ 94.26	\$ 96.90	\$ 99.61
<b>HVAC Mechanic - CBA</b>	DC Journeyman's license and a CFC certification	4	\$ 83.73	\$ 85.99	\$ 88.40	\$ 90.88	\$ 93.42
<b>HVAC Control Tech - CBA</b>	DC Journeyman's license and control system certification	4	\$ 86.68	\$ 89.02	\$ 91.52	\$ 94.08	\$ 96.71
<b>Maintenance Mechanic - CBA</b>	High School	4	\$ 79.71	\$ 81.87	\$ 84.16	\$ 86.51	\$ 88.94
<b>General Maintenance Worker - CBA</b>	High School	2	\$ 64.02	\$ 65.75	\$ 67.59	\$ 69.48	\$ 71.43
<b>Plumber, Lead - CBA</b>	Master plumber's license issued by Washington Suburban Sanitary Commission	4	\$ 89.69	\$ 92.11	\$ 94.68	\$ 97.34	\$ 100.06
<b>Plumber - CBA</b>	Journeyman plumber's license issued by Washington Suburban Sanitary Commission	4	\$ 80.61	\$ 82.78	\$ 85.10	\$ 87.48	\$ 89.93
<b>Structural, Lead - CBA</b>	High School	3	\$ 85.91	\$ 88.23	\$ 90.71	\$ 93.24	\$ 95.86
<b>Carpenter - CBA</b>	High School	3	\$ 73.70	\$ 75.69	\$ 77.81	\$ 79.99	\$ 82.23
<b>Painter - CBA</b>	Formal apprenticeship or equivalent training and experience	4	\$ 71.38	\$ 73.30	\$ 75.36	\$ 77.47	\$ 79.64
<b>Locksmith - CBA</b>	Completion of a recognized apprenticeship or vocational program for a locksmith	4	\$ 80.32	\$ 82.49	\$ 84.80	\$ 87.17	\$ 89.61
<b>Maintenance Helper - CBA</b>	High School	2	\$ 56.39	\$ 57.91	\$ 59.53	\$ 61.20	\$ 62.91

## OCONUS Location Pricing:

For any OCONUS locations, M.C. Dean will use the Department of State's Standardized Regulations (DSSR) as referenced at: [https://aoprals.state.gov/Web920/default.asp?menu\\_id=95](https://aoprals.state.gov/Web920/default.asp?menu_id=95) to adjust our CONUS labor rates for OCONUS locations. Our labor rates would be multiplied by the cost factor based on the location of the service.

## Lenel Readers – SIN 334290PACS

Products to be purchased in conjunction with a services-based order only.

SIN	MFR PART NO	Product Description	Price
<b>334290PACS</b>	900NHPTEK000HR-L02	RDR, R10-H, PIVCLASS, SE E, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OPEN COLL, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 108.61
<b>334290PACS</b>	920NHPTEK000HR-L02	RDR, R40-H, PIVCLASS, SE E, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OPEN COLL, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 191.31
<b>334290PACS</b>	921NHPTEK000HT-L02	RDR, RK40-H, PIVCLASS, SE E, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OPEN COLL, OSDP TAMP ENABLED, FIPS 200-BIT, KPF, ASCII, BFFRD 1 KEY, IPM OFF, UART OFF, WIEG OFF	\$ 333.25
<b>334290PACS</b>	923NPPTEK000NT-L02	RDR, RKCL40-P, PIVCLASS, SE E, CONT LCD, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/PKI/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OC, FIPS 200-BIT, KPF, ASCII, BFFRD 1 KEY, LCD 1F, IPM OFF, UART OFF, WIEG OFF, LENEL LOGO LBL, INSTALL GUIDE	\$ 526.41
<b>334290PACS</b>	900PHPTEK000HU-L02	RDR, RP10-H, PIVCLASS, SE E, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, EM4102 32-BIT, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 134.53
<b>334290PACS</b>	920PHPTEK000HU-L02	RDR, RP40-H, PIVCLASS, SE E, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, FIPS 200-BIT, IPM OFF, UART OFF, WIEG OFF, EM4102 32-BIT, LENEL DIW, LENEL LOGO LBL & INSTALL GUIDE	\$ 217.23
<b>334290PACS</b>	921PHPTEK000HV-L02	RDR, RPK40-H, PIVCLASS, SE E, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OPEN COLL, FIPS 200-BIT, KPF, ASCII, BFFRD 1 KEY, IPM OFF, UART OFF, WIEG OFF, LENEL DIW LOGO & GUIDE	\$ 357.93
<b>334290PACS</b>	923PPPTEK000NU-L02	RDR, RPKCL40-P, PIVCLASS, SE E, CONT LCD, LF STD, HF STD/SIO/SEOS/FIPS/CAK/PKI/DIW, 485HDX, TERM, BLK, A/V OFF, OPT TAMP, OC, FIPS 200-BIT, KPF, ASCII, BFFRD 1 KEY, LCD 1F, IPM OFF, UART OFF, WIEG OFF, LENEL LOGO LBL, INSTALL GUIDE	\$ 552.33
<b>334290PACS</b>	923PPRTEK0053W-L002	RDR, RPKCL40-P, PIVCLASS, SE E, CONT LCD, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485FDX, TERM, BLK, STD-1, WIEG, LED RD, FLSH GRN, BZR ON, OPT TAMP DISAB, FIPS 200-BIT, LCD 1F, EM4102 34-BIT, BFFRD 1 KEY, DOR COMPL, NO PAR, 8-BIT MSG, LENEL	\$ 552.33
<b>334290PACS</b>	924NPRTEK000K8-L02	RDR, RKCLB40-P, PIVCLASS, SE E, CONT LCD BIO, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/PKI/DIW, 485FDX, TERM, BLK, LED RED, FLSH GRN, BZR ON, KPF, ASCII, BFFRD 1 KEY, LCD 1F, IPM OFF, UART ON, WIEG OFF, LENEL DIW, LENEL LOGO LBL, INSTALL GUIDE	\$ 891.75

<b>334290PACS</b>	923NPRTEK000K8-L02	RDR, RKCL40-P, PIVCLASS, SE E, CONT LCD, LF OFF, HF STD/SIO/SEOS/FIPS/CAK/PKI/DIW,485FDX,TER, BLK,LED RED,FLSH GRN,BZR ON,KPF, ASCII, BFFRD 1 KEY,LCD1F,IPM OFF,UART ON,WIEG OFF,LENEL DIW,LENEL LOGO LBL, INSTALL GUIDE	\$ 526.41
<b>334290PACS</b>	923PPRTEK0053W-L002	RDR, RPKCL40-P, PIVCLASS, SE E, CONT LCD, LF STD, HF STD/SIO/SEOS/FIPS/CAK/DIW, 485FDX, TERM, BLK, STD-1, WIEG, LED RD, FLSH GRN, BZR ON, OPT TAMP DISAB, FIPS 200-BIT, LCD 1F, EM4102 34-BIT, BFFRD 1 KEY, DOR COMPL, NO PAR, 8-BIT MSG, LENEL	\$ 552.33

### Ancillary Products – SIN ANCILLARY

For any necessary products required, M.C. Dean will procure from the following catalogs at cost plus 10%: Grainger, Graybar, Lowe's, Home Depot, Dominion Electric Supply, Shepherd Electric Supply, Trade Service.

SIN	Support Item	Product Description	Price
<b>ANCILLARY</b>	Ice Melt/Materials	50 lb bag Kissner Simple & Save Calcium Chloride Crystals for use around pets and service animals	\$ 55.00
<b>ANCILLARY</b>	Roll off dumpster	30 yard dumpster. Average dimensions 22ft long by 7.5 feet wide by 6 feet high.	\$ 549.99

## APPENDIX B: LABOR CLASSIFICATIONS & JOB DESCRIPTIONS

### **Program Manager**

Responsible for large projects or a significant segment of a large complex program. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

### **Project Manager 3**

Responsible for medium to large projects. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

### **Project Manager 2**

Responsible for small to medium size projects. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business

trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

### **Subject Matter Expert (IT)**

Provides technical knowledge and skill in using specialized applications in the areas specified in the order. Experienced in the operational environment and using high-level functional systems analysis, design, integration, documentation, and implementation methodologies on complex problems that require in-depth knowledge of the subject matter for effective implementation. Participates as needed in all phases of engineering design and software development with emphasis on the planning, analysis, testing, integration, documentation and presentation phases. Applies principles, methods and knowledge of the functional area of expertise to specific order requirements and in the process uses advanced mathematical principles and methods to arrive at practical, innovative solutions. Designs and prepares technical reports, data bases, studies, and related documentation, makes charts and graphs to record results. Prepares and delivers presentations and briefings as required by the order.

### **Systems Architect (IT)**

Provides executive level support to customers in identifying, compiling, and analyzing information transfer requirements and determining how these requirements can best be met. Architects, designs, develops and executes proven approaches to requirements analysis following I.E.E.E. and other applicable specifications, to provide customers with: confluence of understanding between User and Technical communities; bi-directional feedback mechanism for User and Technical personnel discussions and consensus; a framework for early identification and resolution of system design problems; a foundation for qualifying and quantifying system characteristics that meet customer needs; a baseline for comprehensive system capabilities and a basis for determining system completion parameters; a road map for system planning, design and development; and a mechanism for capturing, documenting and auditing requirements changes. Provides top-level briefings, analyses and recommendations to executive decision makers on the structure, format, approach and anticipated results and performance metrics associated with requirements determination processes.

### **Senior Network Engineer (IT)**

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Act as the technology lead for designing the network and security platforms and technical lead supporting the network. Other responsibilities include security audits, assessments, design, implementation and configuration. Provides leadership, direction and vision in the support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

**Network Engineer (IT)**

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits, assessments, design, implementation and configuration. Provides support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

**Jr. Network Engineer (IT)**

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits, assessments, design, implementation and configuration. Provides support and deployment of network and security technologies.

**Sr. Design Engineer**

Provides expert support, analysis, and oversight in the design, development, deployment and integration of Enterprise Applications and technology solutions. Has broad expertise in hardware, software, and support systems for general and specialized applications, to ensure seamless communication and use of data across legacy systems and different vendor applications. Provides technical analysis and implementation support for products and solutions designs in multi-vendor, heterogeneous environments. Functions as task lead providing guidance and training for less experienced engineers.

**System Engineer II**

Designs, develops, and implements systems engineering solutions that meet the customer's security requirements. Evaluates existing systems to identify deficiencies and performance issues. Experienced with the systems engineering architectures and planning that must be undertaken to adequately define requirements, acquire, and implement systems, equipment and software. Consults with users, managers, and staff to ensure that deficiencies and alternatives have been fully identified and that the solution meets requirements. May function as task lead providing guidance and training for less experienced engineers.

**System Engineer I**

Designs, develops, and implements systems engineering solutions that meet the customer's security requirements. Evaluates existing systems to identify deficiencies and performance issues. Experienced with the systems engineering architectures and planning that must be undertaken to adequately define requirements, acquire, and implement systems, equipment and software. Consults with users, managers, and staff to ensure that deficiencies and alternatives have been fully identified and that the solution meets requirements.

**Tech Specialist**

An internal consultant on multiple systems and their functioning including system integration, infrastructure, and troubleshooting. Applies advanced principles, and technical insight into usually complex and new to M.C. Dean problems and provides solutions that are state of the art.

**Programmer III**

Responsible for interfacing with customers to ensure systems are programmed to meet the customer specifications and provide advanced level technical support. Develops programming schemes and planning documentation to ensure all requirements are met. Solves programming and system problems of difficult scope and complexity. Functions as a task lead to provide oversight and training of less experienced programmers.

**Programmer II**

Responsible for interfacing with customers to ensure systems are programmed to meet the customer specifications and provide advanced level technical support. Solves programming and system problems of moderate scope and complexity.

**System Admin II**

Responsible for providing initial diagnostic troubleshooting and determining root cause of complex network and systems problems. General use and/or application of basic principles, theories, and concepts. Solves problems of difficult scope and complexity.

**System Admin I**

Responsible for providing initial diagnostic troubleshooting and determining root cause of simple network and systems problems. Limited use and/or application of basic principles, theories, and concepts. Solves problems of limited to moderate scope and complexity.

**Technician III**

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

**Technician II**

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

**Technician I**

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires knowledge of communications hardware and software in multi-vendor environment.

**FAC Electrical Apprentice I**

Responsible for assisting with the installation of systems and equipment as directed by their supervisor. Activities are directly supervised.

**FAC Electrical Apprentice II**

Responsible for using previously learned skills and continuing to develop by taking a more active role in installation, systems and equipment responsibility. Subject to deadlines and heavy workloads. Develops solutions to problems of limited scope.

**FAC Electrical Apprentice III**

Responsible for acquiring higher level electrical skills while refining level 1 and 2 skills. Provides solutions to a variety of problems.

**FAC Electrical Apprentice IV**

Responsible for beginning to lead and mentor junior apprentices in the execution of job tasks while mastering earlier developed skills in preparation of becoming a Journeyman electrician.

**FAC Building Operations Center Manager**

Responsible for providing a 24/7/365 qualified, capable, and trained BOC operations staff that can operate (monitor and control) and update all BOC system (s) control applications maximizing the efficiency of the system being controlled and revising the operating controls as needed to accommodate changes in the facility operations or to correct identified problems/ inefficiencies.

**FAC Building Operation Center Specialists**

Assists the BOC Manager in Manages the integration, reliability and functionality for all the building control system(s) that comprise the BOC that include the Delta Controls Building Automation Systems (BAS) and the Honeywell Notifier Life Safety Systems. Monitors controlled systems for performance and problems on Building Automation System, Life Safety Systems, Computerized Maintenance Management System.

**FAC Communications Technician I**

Responsible for planning, layout and complete installation of new commercial and retrofit commercial communications equipment and systems in accordance with all applicable plans, specifications, codes and industry standards.

**FAC Communications Technician II**

Responsible for planning, layout and completes installation of new commercial and retrofit commercial communications equipment and systems in accordance with all applicable plans, specifications, codes and industry standards, including taking on crew lead responsibilities, mentoring co-workers and apprentices, and overseeing cost coding and time records for the crew.

**FAC Construction Surveillance Technician**

The Construction Surveillance Technician is responsible for controlling access to construction sites, including: screening and escorting personnel within or to a construction site as appropriate, maintaining control of construction materials, controlling the Secure Storage Area, and reporting incidents and anomalies to the Site Security Manager (SSM).

**FAC Control Technician I**

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician 1 has basic blueprint reading skills.

**FAC Control Technician II**

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician 2 has intermediate blueprint reading skills.

**FAC Control Technician III**

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician 3 has intermediate blueprint reading skills.

**FAC Control Technician IV**

Responsible for a variety of duties related to assembling, piecing together, fitting, fastening and installing different parts of manufactured products, performing minor repairs as necessary and other manual labor required in assembling a product. The Control Technician IV has advanced blueprint reading skills.

**FAC Electrician I**

Installs basic electrical equipment and systems in accordance with all applicable plans, specifications, codes, and industry standards while being supervised by an Electrician II. This position does not require an electrician's license.

**FAC Electrician II**

Installs basic electrical equipment and systems in accordance with all applicable plans, specifications, codes, and industry standards, while working on large, high profile commercial, industrial and government electrical projects.

**FAC Electronics Technician**

The Electronics Technician is responsible for basic installation and troubleshooting of electronic security, life safety, and telecommunication systems with a heavy emphasis on terminating cables and field devices and installing said devices.

**FAC Equipment Manager**

The Equipment Manager manages the resources associated with the operation of machines or vehicles equipped with blades/buckets to remove, distribute, level or grade earth, such as a backhoe or excavator.

**FAC Fire Alarm Technician I**

The Fire Alarm Technician I is responsible for testing and repairing circuits and sensors, following wiring and system specifications; examining systems to locate problems such as loose connections or broken insulation; troubleshooting all aspects of specialty electronic systems located in tenant suites, single story flex space systems, and large retail and commercial space; identifying major system issues that require programming or proprietary assistance for closure; interpreting 1-line diagrams, multiplex schematics, and points list mapping documents; inspecting installation sites and studying work orders, building plans, and installation manuals in order to determine material requirements and installation procedures; mounting and fastening control panels, door and window contacts, and sensors, and attaching electrical and telephone wiring in order to connect components; and drilling holes for wiring in wall studs, joists, ceilings, and floors.

**FAC Fire Alarm Technician II**

The Fire Alarm Technician II is responsible for testing and repairing circuits and sensors, following wiring and system specifications; examining systems to locate problems such as loose connections or broken insulation; troubleshooting all aspects of specialty electronic systems located in tenant suites, single story flex space systems, and large retail and commercial space; identifying major system issues that require programming or proprietary assistance for closure; interpreting 1-line diagrams, multiplex schematics, and points list mapping documents; inspecting installation sites and studying work orders, building plans, and installation manuals in order to determine material requirements and installation procedures; mounting and fastening control panels, door and window contacts, and sensors, and attaching electrical and telephone wiring in order to connect components; and drilling holes for wiring in wall studs, joists, ceilings, and floors.

**FAC Foreman**

The Foreman is responsible for supervising and coordinating the work of a crew of electricians, apprentices and laborers on a job site, as well as ensuring that all work installed is completed on time, on budget and according to all applicable plans, specifications, codes and industry standards.

**FAC General Maintenance Technician I**

The General Maintenance Technician I performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

**FAC General Maintenance Technician II**

The General Maintenance Technician II performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

**FAC Generator Technician I**

The General Maintenance Technician I performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

**FAC Generator Technician II**

The General Maintenance Technician II performs routine operator rounds of facility equipment monitoring the operation and recording operating parameters on reading sheets. He records and reports all faults, deficiencies, and other unusual occurrences while responding to emergency situations and performs any and all task necessary for the protection of occupants and the facility.

**FAC HVAC Technician I**

The HVAC Technician I is responsible for the troubleshooting, maintenance and performance of the HVAC equipment. He makes periodic inspections of all Engineering systems and equipment and monitoring equipment operations and maintain equipment operating log. He performs maintenance on Engineering systems and equipment to include such items as, but not limited to, Chiller, IFU, VAV, HVAC Controls, and fire and life safety system sprinkler systems.

**FAC HVAC Technician II**

The HVAC Technician II is responsible for the troubleshooting, maintenance and performance of the HVAC equipment. He makes periodic inspections of all Engineering systems and equipment and monitoring equipment operations and maintain equipment operating log. He performs maintenance on Engineering systems and equipment to include such items as, but not limited to, Chiller, IFU, VAV, HVAC Controls, and fire and life safety system sprinkler systems.

**FAC HVAC Technician III**

The HVAC Technician III is responsible for the troubleshooting, maintenance and performance of the HVAC equipment. He makes periodic inspections of all Engineering systems and equipment and monitoring equipment operations and maintain equipment operating log. He performs

maintenance on Engineering systems and equipment to include such items as, but not limited to, Chiller, IFU, VAV, HVAC Controls, and fire and life safety system sprinkler systems.

### **FAC Laborer**

The laborer assists the electricians with manual labor tasks. The job duties and responsibilities include erecting and disassembling scaffolding, shoring, braces, and other temporary structures; loading and unloading trucks and distributing electrical materials, machinery, and tools to the appropriate job site locations; hauling and hoisting materials; digging ditches, moving materials, and cleaning job site as the project progresses in order to assist electricians; site clean-up

### **FAC Mechanical Systems Operator I**

The Mechanical Systems Operator I operates machines or vehicles equipped with blades/buckets to remove, distribute, level or grade earth, such as a backhoe or excavator.

### **FAC Mechanical Systems Operator II**

The Mechanical Systems Operator II is responsible for operating machines or vehicles equipped with blades/buckets to remove, distribute, level or grade earth, such as a backhoe or excavator.

### **FAC Pipe Fitter**

The Pipe Fitter maintains, installs, and dismantles all types of pipelines, fittings and hydraulics as required for new construction or maintenance. He receives instructions, blueprints, and work orders for the job, and develops working procedure for the job, material requirements, scaffolding and other equipment required.

### **FAC Plumber**

Responsible for maintaining and upgrading plumbing equipment, piping, etc. Performs corrective and preventative maintenance on all plumbing related equipment. Other responsibilities include, but are not limited to, installing and/or repairing various plumbing equipment (water heaters, drinking fountains, toilets, sinks, etc.) throughout the facility. Also, a Plumber I must be certified/licensed in pipefitting, steam fitting or sprinkler systems.

### **FAC Power Systems Field Service Technician I**

Responsible for designing, testing, constructing, and operating power systems, to include:

- Conceive, direct, implement, and evaluate efficiency of power systems.
- Work with manufacturing engineering on release and documentation of new hardware, test equipment, and assembly fixtures.
- Develop methods of integrating renewable power technology.

### **FAC Power Systems Field Service Technician II**

Responsible for maintaining protective relays for utility and industrial/commercial clients. Systems to be analyzed will include conventional and renewable generation facilities, substations, and transmission and distribution systems.

**FAC Service Technician I**

Assemble, install, test, and maintain electrical or electronic wiring, conduit, cable, equipment, components and devices associated with electrical equipment, following blueprints of electrical layouts and building plans. Test and inspect electrical systems and components to ensure continuity of circuits in electrical wiring, equipment, and fixtures. Provide troubleshooting services for malfunctioning systems as needed.

**FAC Service Technician II**

Assemble, install, test, and maintain electrical or electronic wiring, conduit, cable, equipment, components and devices associated with electrical equipment, following blueprints of electrical layouts and building plans. Test and inspect electrical systems and components to ensure continuity of circuits in electrical wiring, equipment, and fixtures. Provide troubleshooting services for malfunctioning systems as needed.

**FAC Service Technician III**

Assemble, install, test, and maintain electrical or electronic wiring, conduit, cable, equipment, components and devices associated with electrical equipment, following blueprints of electrical layouts and building plans. Test and inspect electrical systems and components to ensure continuity of circuits in electrical wiring, equipment, and fixtures. Provide troubleshooting services for malfunctioning systems as needed.

**FAC Service Superintendent**

Plan, direct, coordinate, and budget for projects involving the construction and maintenance of structures, facilities and systems. Manage mid-sized to large projects including the oversight of 15-45 field personnel. Inspect and review projects to monitor compliance with building and safety codes, and other regulations.

**FAC Warehouse Manager**

Maintains ordering, tracking, receiving, warehousing, and distribution operations by coordinating, enforcing, or initiating logistics program policies and procedures. Establishes and maintains stock levels for supplies, materials, tools, and equipment required for operations and maintenance activities. Performs periodic physical counts and audits to manage and control inventory levels.

**FAC Warehouse Worker I**

Receives and counts stock items and records data, examines and inspects stock and delivered items for damage, verifies inventory levels and reports discrepancies. Determines proper storage methods for items and stores items in an orderly and accessible manner. Performs manual tasks including packing/unpacking items, marking items, and cleaning and maintaining supplies, tools, equipment, etc. to maintain compliance with safety regulations.

**FAC CAD Operator II**

The CAD Operator II is responsible for modifying drawings based on engineer markups and specification of existing drawings, create new AutoCAD drawings from hand drawings, and

printing copies of drawings. In this position, the CAD Operator II must become familiar with the company specific and national drawing standards and symbols.

### **FAC CAD Operator III**

Responsible for modifying drawings based on engineer markups and specification of existing drawings, create new AutoCAD drawings from hand drawings, and printing copies of drawings. In this position, the CAD Operator III must become familiar with the company specific and national drawing standards and symbols. Supervises and mentors less-experience CAD operators.

### **FAC Office Engineer I**

Provides technical & administrative information to others working on a project to ensure that the work complies with all basic engineering standards, codes, specifications, and design instruction; trouble-shoots engineering related installation problems. Works closely supervised and solves problems of limited scope and complexity.

### **FAC Office Engineer III**

Provides technical & administrative information to others working on a project to ensure that the work complies with all engineering standards, codes, specifications, and design instruction; trouble-shoots engineering related installation problems. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

### **FAC Project Administrator I**

Processes and tracks documentation, keeping all logs and report organized and maintained. Distributes all correspondence as directed by the Project Manager and coordinates meetings.

### **FAC Project Administrator II**

Processes and tracks documentation, keeping all logs and report organized and maintained. Distributes all correspondence as directed by the Project Manager and coordinates meetings. Assists the project manager in preparation of reports.

### **FAC Project Manager I**

Assists the project Superintendent in the preparation of project documentation requirements, project layout, and field office support. Provides overall financial management for projects and monitors project progress. Reviews contracts and customer negotiations.

### **FAC Project Manager II**

Assists the project Superintendent in the preparation of project documentation requirements, project layout, and field office support. Provides overall financial management for projects and monitors project progress. Reviews contracts and customer negotiations. Mentors subordinates and assists with career development.

**FAC Project Manager III**

Assists the project Superintendent in the preparation of project documentation requirements, project layout, and field office support. Provides overall financial management for projects and monitors project progress. Reviews contracts and customer negotiations. Mentors subordinates and assists with career development.

**FAC Quality Engineer I**

Assist project quality control team in quality system documentation management. Plan, schedule, coordinate and conduct QAQC audits to ensure quality control procedural requirements are being adhered to.

**FAC Quality Engineer II**

Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Create quality checklists to comply with contractual and industry specific requirements. Evaluate effectiveness of corrective action responses.

**FAC Quality Engineer III**

Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Create and review quality checklists to comply with contractual and industry specific requirements. Evaluate effectiveness of corrective action responses.

**FAC Quality Engineer IV**

Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Review quality checklists to comply with contractual and industry specific requirements. Evaluate effectiveness of corrective action responses.

**FAC Quality Manager**

Manage team of Quality Auditors. Review quality checklists to comply with contractual and industry specific requirements. Ensure compliance and maintenance of project work with all applicable internal, contractual, and industry standards. Evaluate effectiveness of corrective action responses.

**FAC Safety Manager I**

The safety manager is responsible for ensuring implementation of the Electrical Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

**FAC Safety Manager II**

The safety manager is responsible for ensuring implementation of the Electrical Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk

Management (ORM) process. Responsible for Creating, developing and implementing electrical safety training plans. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

### **FAC Safety Division Manager**

The Safety Division Manager is responsible for the development and oversight of the Electrical Safety and Health (S&H) Program. Manages multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Mentoring subordinate electrical safety professionals and cross training with other safety professionals and communicating multiple code interpretation to field level personnel. Applying knowledge of industrial or commercial grade electrical applications, and existing electrical Operations and Maintenance (O&M) and construction activities. Understanding and interpreting the National Electric Code (NEC) and the National Fire Protection Association (NFPA) 70E and overseeing and managing the NFPA 70E program (V-Advanced Level Test).

### **FAC Safety Manager**

The safety manager is responsible for ensuring implementation of the Electrical Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing M.C. Dean site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Responsible for Creating, developing and implementing electrical safety training plans. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical.

### **FAC Scheduler**

The Scheduler designates work to be done and specifies deadlines for completing tasks and deliverables. Complete understanding & application of principles, concepts and practices. Responsible for aiding, tracking, monitoring status, controlling and performing issue resolution throughout the project's life cycle. Provides project planning and scheduling documentation to support project and customer requirements. Assists Team Leads, Superintendents and the Project and Program Managers in tracking the projects against baseline schedules and budgets, and assists Project Managers in maintaining Master schedule for each project, identifying and recording the impact of work performed and not performed as scheduled.

### **FAC Carpenter**

Is responsible for performing a variety of carpentry duties as assigned. Carpentry services include, but are not limited to, the design, construction, installation and repair of wooden fixtures and structures such as cabinets, furniture, shelving, doors, plaques, and other custom wood products. Other duties include, but are not limited to, framing and finish work, painting, staining, etc. Monitors subcontractor performance as assigned, conducts jobsite troubleshooting and performs primary project layout and carpentry production

**FAC Painter**

Paints and redecorates walls, woodwork and fixtures, as well as desks, tables, cabinets (metal and wood), machinery and curbs. Work involves the following: knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing Old finish or by placing putty or Miller in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead and other paint ingredients to obtain proper color or consistency. In addition to painting, responsible for taping and texturing of drywall as required. May be required to assist Maintenance Mechanic in duties that parallel a painter's primary tasks

**FAC Locksmith**

Installs, repairs, replace and maintain locks; open locks without keys by picking, drilling, and duplicating keys. Install door locks, replace and install all finished buildings hardware such as door closures, panic bars, repair locks on file cabinets, desks, and other pieces of furniture. Establish/maintain accurate records of key assignments. record changes in key and lock assignments. work from preventive maintenance schedules, use and operate tools of the trade and respond to emergency calls. Perform other job-related work as assigned.

**Data Center Engineer**

Responsible for ensuring that all electrical, mechanical, and fire/life safety equipment within the data center is operating at peak efficiency. This involves both planned preventative maintenance of equipment, daily corrective work, and emergency response to emergent issues. The Engineer serves as an expert technical resource reporting to client engineers, interacting with Onsite Engineering Operations (OEO) and any third-party vendors. They are expected to be a singular focal point for all facility operations within a given data center and to support operated data centers.

**Data Center Facility Manager**

Front line when it comes to hands-on electrical and mechanical equipment troubleshooting. They maintain, operate, and troubleshoot mission-critical data center facility equipment including electrical support equipment such as stand-by diesel generators and related fuel systems, 3 phase electrical systems that include but not limited to switchgear, UPS units, PDUs, batteries and associated systems. Mechanical equipment includes CRAH units, centrifugal chillers, cooling towers/water chemical system, air handlers and associated systems, pumps, and motors. Additional support equipment is included in the scope of the role which includes fire suppression systems, building automation systems, and general facilities equipment.

**Data Center Operations - Manager**

As a leader in the Operations team, the Manager of Data Center Operations is responsible for all operational aspects and uptime of the data center. The manager is responsible for providing field level technical expertise and program management for the maintenance and operation of the electrical, mechanical, fire life safety, security, and communications infrastructure as well as any applicable base building support systems. All Data Center Operations staff reports through the Manager of Data Center Operations.

**REM I**

Have a general understanding of load profile data presentation and manipulation; energy audits, and energy project development; have experience in providing technical resources and management of energy related services; have working knowledge in various energy estimating software packages such as, but not limited to, Trane Trace, Department of Energy analysis tools, and other simulation software; have a working knowledge in documenting and monitoring maintenance procedures utilizing software such as IBM Maximo Asset Management software; have a working knowledge in the use of bin, heating degree days, and other simplified methods of energy calculations; have familiarity with all Executive Orders, ESPC, DSM, utility privatization, and other legislations and regulations related to energy programs; have a general understanding of the ESPC program including Measurement and Verification protocols; and be proficient in the use of the Microsoft Offices suite for the analysis of energy usage data and the development of presentations of findings and proposals for cost-effective solutions. Also, have a thorough understanding of the Army Energy and Water Reporting System (AEWRS) system for energy reporting as well as a thorough understanding of potential utility rates that may be encountered at each site, ESPC guidance, DOE's measurement and verification protocols, the International Measurement and Verification Protocols, American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE's) measurement and verification procedures, CEHNC's area-wide ESPC contracts, GSA ESPC contracts, DOE's Super ESPC contracts, and other alternative financing vehicles.

**REM II**

Have an expertise in the following areas: specific experience in an Energy Management Program; thorough understanding of load profile data presentation and manipulation; energy audits, and energy project development. Have experience in providing technical resources and management of energy related services; a working knowledge in various energy estimating software packages such as but not limited to Trane Trace, DOE II, and other simulation software; a working knowledge in documenting and monitoring maintenance procedures utilizing software such as MAXIMO; shall have a working knowledge in the use of bin, heating degree-days, and other simplified methods of energy calculations; familiarity with all Executive Orders, ESPC, DSM, utility privatization, and other legislations and regulations related to energy programs; an understanding of the ESPC program including Measurement and Verification protocols; and proficient in the use of the Microsoft Offices suite for the analysis of energy usage data and the development of presentations of findings and proposals for cost-effective solutions. Have an understanding of the AEWRS system for energy reporting, a thorough understanding of potential utility rates that may be encountered at each site, ESPC guidance, DOE's measurement and verification protocols, the International Measurement and Verification Protocols, ASHRAE's measurement and verification procedures, CEHNC's area- wide ESPC contracts, GSA ESPC contracts, DOE's Super ESPC contracts, and other alternative financing vehicles, ESPC contracts, and other alternative financing vehicles.

**REM III**

Have expertise in the following areas: specific experience in an Energy Management Program; thorough understanding of load profile data presentation and manipulation; energy audits, and energy project development; experience in providing technical resources and management of energy related services; a working knowledge in various energy estimating software packages

such as but not limited to Trane Trace, DOE II, and other simulation software; a working knowledge in documenting and monitoring maintenance procedures utilizing software such as MAXIMO; shall have a working knowledge in the use of bin, heating degree-days, and other simplified methods of energy calculations; familiarity with all Executive Orders, ESPC, DSM, utility privatization, and other legislations and regulations related to energy programs; an understanding of the ESPC program including Measurement and Verification protocols; and proficient in the use of the Microsoft Offices suite for the analysis of energy usage data and the development of presentations of findings and proposals for cost-effective solutions. Have experience in providing subject matter expertise on all aspects of an energy project total life cycle management and provide in-depth technical engineering support. Have an understanding of the AEWRS system for energy reporting, a thorough understanding of potential utility rates that may be encountered at each site, ESPC guidance, DOE's measurement and verification protocols, the International Measurement and Verification Protocols, ASHRAE's measurement and verification procedures, CEHNC's area- wide ESPC contracts, GSA ESPC contracts, DOE's Super ESPC contracts, and other alternative financing vehicles.

### **Planning and Programming Facilitator**

Assist energy programs with planning and programming of various projects to include maintain documentation and/or databases via a draft or approved configuration management plan for various energy programs. Assist worldwide energy program with updating policies and procedures for each program and make recommendations for enhancements based upon knowledge, skills and lessons learned.

### **IT Program/Project Manager**

Responsible for large projects or a significant segment of a large complex program. Translates customer requirements into formal agreements and plans that culminate in customer acceptance of results while meeting business objectives. Works with customer to identify business requirements and develops the proposed solution. Subsequently leads a team in initiating, planning, controlling, executing, and closing tasks of a project or segment of a project to produce the delivered solution. Executes a wide range of process activities beginning with the initial technical response to an order through development, test and final delivery. Formulates partnerships between customer, suppliers, and staff. Anticipates potential project related problems. Uses refined techniques for identifying, eliminating, or mitigating solution, project, and business risks. Understands customer, industry, and business trends. Applies this understanding to meet project objectives. As appropriate, challenges the validity of given procedures and processes to enhance or improve them. Analyzes information and situations and implements actions, independently or through the management team, to ensure project objectives are met. Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components.

### **IT Subject Matter Expert**

Provides technical knowledge and skill in using specialized applications in the areas specified in the order. Experienced in the operational environment and using high-level functional systems analysis, design, integration, documentation, and implementation methodologies on complex

problems that require in-depth knowledge of the subject matter for effective implementation. Participates as needed in all phases of engineering design and software development with emphasis on the planning, analysis, testing, integration, documentation and presentation phases. Applies principles, methods and knowledge of the functional area of expertise to specific order requirements and in the process uses advanced mathematical principles and methods to arrive at practical, innovative solutions. Designs and prepares technical reports, data bases, studies, and related documentation, makes charts and graphs to record results. Prepares and delivers presentations and briefings as required by the order.

### **IT Systems Architect**

Provides executive level support to customers in identifying, compiling, and analyzing information transfer requirements and determining how these requirements can best be met. Architects, designs, develops and executes proven approaches to requirements analysis following I.E.E.E. and other applicable specifications, to provide customers with: confluence of understanding between User and Technical communities; bi-directional feedback mechanism for User and Technical personnel discussions and consensus; a framework for early identification and resolution of system design problems; a foundation for qualifying and quantifying system characteristics that meet customer needs; a baseline for comprehensive system capabilities and a basis for determining system completion parameters; a road map for system planning, design and development; and a mechanism for capturing, documenting and auditing requirements changes. Provides top-level briefings, analyses and recommendations to executive decision makers on the structure, format, approach and anticipated results and performance metrics associated with requirements determination processes.

### **IT Systems Engineer**

Designs, develops, and implements systems engineering solutions that meet the customer's connectivity, throughput, and security requirements. Evaluates existing systems to identify deficiencies and performance issues. Experienced with the systems engineering architectures and planning that must be undertaken to adequately define requirements, acquire, and implement systems, equipment and software. Consults with users, managers, and staff to ensure that deficiencies and alternatives have been fully identified and that the solution meets requirements.

### **IT Design Engineer**

Provides expert support, analysis, and assistance in the design, development, deployment and integration of Enterprise Applications and technology solutions. Has broad expertise in hardware, software, and support systems for general and specialized applications, to ensure seamless communication and use of data across legacy systems and different vendor applications. Provides technical analysis and implementation support for products and solutions designs in multi-vendor, heterogeneous environments.

### **IT Jr. Design Engineer**

Provides support, analysis, and assistance in the design, development, deployment and integration of Enterprise Applications and technology solutions. Has broad expertise in

hardware, software, and support systems for general and specialized applications, to ensure seamless communication and use of data across legacy systems and different vendor applications. Provides technical analysis and implementation support for products and solutions designs in multi-vendor, heterogeneous environments.

### **IT Network Architect**

Conceptualizes, designs, plans, and oversees implementation of local, national and global network architectures, including: Notional topologies and physical infrastructures and architectures; Definition of network service layers and protocol and service support elements; definition of network protection layers and strategies; design, evaluation and selection of Transmission, IP, ATM, SONET, and other equipment components; design of evolutionary network growth paths, including reduced latency by merging network transmission layers, new network services, and new transmission technologies; development of strategies for scalable, manageable network configurations allowing exponential growth over time; and strategic inputs to network cost and return on investment calculations. The network architect shall be the senior network design authority on the project and shall have sufficient education, certifications such as C.C.I.E or other industry credentials.

### **IT Senior Network Engineer**

Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Act as the technology lead for designing the network and security platforms and technical lead supporting the network. Other responsibilities include security audits, assessments, design, implementation and configuration. Provides leadership, direction and vision in the support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

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Must have proven technical ability in LAN/WAN design and implementation. Excellent understanding of TCP/IP and routing protocols is needed. Attention to detail is required in managing complex changes to customer networks. Responsibilities include security audits, assessments, design, implementation and configuration. Provides support and deployment of network and security technologies. Works with project managers, business analysts and contractors on security solutions to address customer's security requirements. Researches and provides information on security related solutions. Performs software evaluations and testing of new and existing security solutions.

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assessments, design, implementation and configuration. Provides support and deployment of network and security technologies.

### **IT Senior Security Engineer**

Executes enterprise security policies and ensures all aspects of security architectures, strategies, processes, programs and methodologies are implemented at the physical, technical and logical levels. Implements security mechanisms and measures for: Network Servers, Workstations and PCs, Laptops, Local area network devices, Wide area network devices, Routers, Firewall, Encryption devices, and security elements of network management systems. Audits level of security (Logs, exploits, attacks), evaluates new solutions and capabilities, validates changes to the environment, performs penetration tests, corrects problems identified, and tracks, records and maintains audit logs. Provides user, management and executive level support for security issues on a daily basis. Maintains necessary industry security accreditations and certifications, and keeps abreast of emerging security issues, standards and implementation techniques.

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### **IT Software Architect**

Formulates and defines system scope and objectives for complex information systems. Prepares detailed specifications for programs. Designs, codes, tests, debugs and documents programs. Works in all phases of applications, systems analysis, and programming activities. Provides guidance and training to less experienced analysts/programmers.

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**IT Sr. Enterprise Engineer**

Applies enterprise architecture, process improvement and reengineering methodologies and principles with Internet-related methodologies to conduct process modernization projects. Responsible for the effective transitioning of existing organizations or project teams and the facilitation of project teams in the accomplishment of the organization's goals or project activities and objectives through the improved use of the Internet and intranets. Provides group facilitation, interviewing, training, and provides additional forms of knowledge transfer. Key coordinator between customers and multiple project teams to ensure enterprise-wide integration of reengineering efforts and application of best business practices.

**IT Enterprise Engineer**

Applies enterprise architecture, process improvement and reengineering methodologies and principles with Internet-related methodologies to conduct process modernization projects. Responsible for the effective transitioning of existing organizations or project teams and the facilitation of project teams in the accomplishment of the organization's goals or project activities and objectives through the improved use of the Internet and intranets. Provides group facilitation, interviewing, training, and provides additional forms of knowledge transfer.

**IT Senior Requirements Analyst**

Serves as primary customer interface during requirements collection process, and develops and executes information extraction and analysis processes to ensure comprehensive requirements determination. Collects and validates system requirements in accordance with accepted definitions. Organizes and communicates requirements a structured manner to allow customers and technical communities to agree on the total set. During the design phase, evaluates requirements to drive key design objectives and constraints for hardware, software, subsystems and operations components. During the development phase, uses requirements to create measurable performance objectives and parameters for the system being developed. Facilitates customer meetings and requirements identification sessions, and has ability to

function independently with multiple customer divisions, units, resources, or sources of information to ensure comprehensive requirements determination

### **IT System Requirements Analyst**

Serves as customer interface during requirements collection process, and develops and executes information extraction and analysis processes to ensure comprehensive requirements determination. Collects and validates system requirements in accordance with accepted definitions. Organizes and communicates requirements a structured manner to allow customers and technical communities to agree on the total set. During the design phase, evaluates requirements to drive key design objectives and constraints for hardware, software, subsystems and operations components. During the development phase, uses requirements to create measurable performance objectives and parameters for the system being developed. Facilitates customer meetings and requirements identification sessions, and has ability to function independently with multiple customer divisions, units, resources, or sources of information to ensure comprehensive requirements determination

### **IT Jr. Requirements Analyst**

Supports customer interface during requirements collection process and develops and executes information extraction and analysis processes to ensure comprehensive requirements determination. Collects and validates system requirements in accordance with accepted definitions. Organizes and communicates requirements a structured manner to allow customers and technical communities to agree on the total set. During the design phase, evaluates requirements to drive key design objectives and constraints for hardware, software, subsystems and operations components. During the development phase, uses requirements to create measurable performance objectives and parameters for the system being developed.

### **IT Senior Technician**

Monitors and responds to complex hardware, software, and network problems using a variety of hardware and software testing tools and techniques. Provides primary interface with contractor's technical support groups or provides internal analysis and support to ensure appropriate notification during outages or periods of degraded system performance. Requires extensive knowledge of communications hardware and software in multi-vendor environment. May function as task lead providing guidance and training for less experienced technicians.

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**Senior Program Manager**

Senior Program Manager is responsible for the performance of the work. Be able to correctly identify required maintenance, define project requirements, and relay any findings in writing (preferably) and/or orally in a way that employee understands requirements. The PMG shall have full authority to act for the Contractor on all contract matters relating to the daily operations of this contract. The PMG shall be permanently on site during normal operation hours to instruct and supervise their personnel. Provides broad program oversight over a large, multifunctional service contract. Exercises independent judgment as well as high level and analytical skills in solving complex and unusual managerial, technical and administrative problems. Ultimately responsible for staffing, program planning, execution, performance, quality control and deliverables. Serves as the contractor's single contract manager and shall be the contractor's authorized interface with the Government Contracting Officer (CO), the contract level Contracting Officer's Representative (COR), government management personnel and customer agency representatives. Responsible for formulating and enforcing work standards, assigning contractor schedules, reviewing work discrepancies, supervising contractor personnel and communicating policies, purposes, and goals of the organization to subordinates. Shall be responsible for the overall contract performance and shall not serve in any other capacity under this contract. Responsible for the financial, applicable technology, and schedule performance of assigned programs within cost limitations and established standards. Position may coordinate proposal preparation, statements of work and specifications, estimation of product/service costs, negotiation and administration of contracts. Establishes milestones and monitors adherence to program master plans and schedules. Develops control systems and reports that accurately measure progress, identify potential problems in sufficient time for corrective action to be taken, and ensures the meeting of company's contract commitments. Position directs the performance of program functional task elements such as procurement, quality control, logistics, and administrative functions. Acts as primary customer contact on status and performance and anticipates and fulfills customer needs to ensure their satisfaction and continued business. Determines and establishes organizational structures and supervisory relationships, subject to top management approval. Responsible for the successful operation of activities of major significance to the organization.

**Senior O&M Manager**

Senior Operations and Maintenance Manager assists Program Manager in planning, management, control and execution of events under the project's life cycle in support of the Business Unit upper management. Typical duties include:

Supports the management of a project or series of smaller projects or a definable piece of a larger program for successful completion and performance consistent with contractual requirements

- Supports Program Manager to ensure satisfactory completion of project objectives
- Assists the program manager with planning, management, control and supervising activities to support the full life cycle of assigned project
- Assists in the development of comprehensive project plans to include both long and short-range goals and milestones
- Ability to stand in for Program Manager as needed.

### **Senior Quality Control Manager**

Senior QCM shall perform quality assurance on one or multiple projects to ensure work and data entry is performed as specified in this PWS. The Senior QCM shall oversee data entry of maintenance orders to analyze Contractor's performance of quality control efforts. The Senior QCM shall ensure all supporting documentation is reported and uploaded to Government accordingly.

### **Senior Health, Safety & Environmental Inspector**

Senior HS&E Inspector oversees that all work under one or multiple projects is performed IAW with safety standards as prescribed by the U.S. Government and host nation safety laws and regulations. Is responsible for ensuring implementation of the Safety and Health (S&H) Program, effectively managing multiple safety programs, developing and implementing site-specific project safety plans, and leading and implementing the Operational Risk Management (ORM) process. Responsible for Creating, developing and implementing electrical safety training plans. Provides solutions to a wide range of difficult problems. Solutions are imaginative, thorough and practical."

### **Senior Contract Administrator**

Senior Contract Administrator handles all contract agreements and related documentation in accordance with established contract policies and procedures on a single or multiple project. Reviews modifications, extensions, and contract closeout documents. Prepares and distributes reports and statistical data to facilitate planning and maintenance of accurate contract records and files. Performs preparation of contractual provisions and the administration of contract proposals. Responsible for preparing bids and negotiating specifications and contractual provisions. Is familiar with standard concepts, practices, and procedures within a particular field, and relies on experience and judgment to plan and accomplish goals.

### **Supervisory Work Control Manager**

Supervisory Work Control Manager oversees day to day operation relating to scheduling, performance and fulfillment of routine and unscheduled work performed on single or multiple projects. Assures timelines are met and assets are allocated effectively. Reviews data, time allocation, resources allocation and completion efficiency for staff and duties performed.

### **Senior Work Control Manager**

Senior Work Control Manager oversees day to day operation relating to scheduling, performance and fulfillment of routine and unscheduled work performed on single or multiple projects. Assures timelines are met and assets are allocated effectively. Reviews data, time allocation, resources allocation and completion efficiency for staff and duties performed. May perform as Supervisory Work Control Manager as necessary.

### **Senior Finance Manager**

The Senior Finance Manager manages all general accounting functions and financial analysis for budgets and schedules for the company on individual or multiple projects. Typical duties include:

- Manages the activities of general accounting functions.
- Oversees the financial analysis of budgets and schedules for assigned business area.
- Interprets and formulates financial methods and procedures for business area established goals.
- Ensures compliance with company policies, procedures and other practices set forth by upper management directives.
- Develops, implements and administers financial records in accordance with generally accepted accounting principles, corporate policies and government regulations.

### **Senior HR Specialist**

The Senior HR Specialist works with all human resource staff members to develop, plan, and administer policies relating to all phases of human resources activity for assigned business area. Typical duties include:

- Oversees HR staff during the planning and administering of all activities.
- Serves as management representative when called upon.
- Develops and administers policies and programs covering several areas of Human Resources such as recruitment, wage and salary administration, training, employee relations, benefits and equal employment opportunity (EEO)/affirmative action programs.
- Prepares recommendations to upper management concerning human resources issues and concerns.
- Ensures assigned group programs, practices and policies comply with applicable laws, regulations and company policies.
- Compile and keep personnel records.
- Record data for each employee, such as address, weekly earnings, absences, amount of sales or production, supervisory reports, and date of and reason for termination.
- May prepare reports for employment records, file employment records, or search employee files and furnish information to authorized persons.

### **Cost Estimator**

Cost Estimator works directly with program and project staff to plan, estimate, verify and cost both individual task orders and overall project costs. Allocates assets accordingly to assure work performed is accurately priced to reflect all staff, assets and material are accounted for in a pricing model.

### **Senior Production Control Clerk**

Supports the operations of individual or multiple contracts with oversight relating to the daily operation of the production control department, maintenance supply function, repair supply function and facilitates the departmental workflow to ensure compliance with contract requirements, including the effective, efficient, and economical operation of all activities.

### **Production Control Clerk**

Responsible for the daily operation of the production control department, maintenance supply function, repair supply function and facilitates the departmental workflow to ensure compliance with contract requirements, including the effective, efficient, and economical operation of all activities.

### **Scheduler, Maintenance**

Maintenance Scheduler works closely with the Work Control staff in regard to day to day operation relating to scheduling, performance and fulfillment of routine and unscheduled work performed on single or multiple projects. Assures timelines are met and assets are allocated effectively. Reports data, time allocation, resources allocation and completion efficiency for staff and duties performed.

### **Computer Operator I**

Sets up and operates computer peripheral devices. Monitors the system for error messages and ensures efficiency. Performs routine preventative maintenance on equipment according to user manuals and installation standards. Submits job requests based on appropriate computer schedule. Observes operation of the computer to detect errors, machine stoppage or faulty output. Performs data entry for all Contractor's labor and equipment used during the work. The processor shall ensure the time is charged correctly to an individual GFEBs maintenance order, work center and task code and that the GFEBs entry counterparts the invoice amount.

### **Computer Operator II**

Sets up, operates, maintains and troubleshoots computer peripheral devices. Performs analytic and preventative maintenance on equipment. Observes operation of the computer to detect errors, machine stoppage or faulty output. Performs data entry for all Contractor's labor and equipment used during the work. The processor shall ensure the time is charged correctly to an individual GFEBs maintenance order, work center and task code and that the GFEBs entry counterparts the invoice amount. Enter and maintain in GFEBs all materials transactions for SHIP store and shall charge all used materials to individual work orders and to ensure the material charges are posted correctly against the work center and task code.

### **Computer Operator III**

Operates, maintains and troubleshoots computer devices and software. Provides programming and analytical assistance as needed. Oversees GFEBs data entry process to ensure time is charged correctly to an individual GFEBs maintenance order, work center and task code and that the GFEBs entry counterparts the invoice amount. Enter and maintain in GFEBs all materials

transactions for SHIP store and shall charge all used materials to individual work orders and to ensure the material charges are posted correctly against the work center and task code.

### **Computer Operator IV**

Manages, maintains, troubleshoots and provides necessary programming and hardware services to company computer systems, operating software and programs such as Computerized Maintenance Management System (CMMS). Oversees analysis of hardware and software updates and patches.

### **Computer Operator V**

Computer Operator V is responsible for the effective performance of all company hardware and software systems. Works with other IT staff to verify data entry is accurate and software such as CMMS is performing accurately and efficiently. Maintains reports and data entry logs. Reviews data entry process of staff members.

### **Accounting Clerk II**

This position uses knowledge of double entry bookkeeping in performing one or more of the following: posting actions to journals, identifying subsidiary accounts affected, making debit and credit entries, and assigning proper codes. The Accounting Clerk II may review computer printouts against manually maintained journals, detect and correct erroneous postings, and prepare documents to adjust accounting classifications and other data, or review lists of transactions rejected by an automated system. In this instance, the Accounting Clerk II will determine reasons for rejections, and prepare necessary correcting material. On routine assignments, an employee will select and apply established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used, are reviewed for technical accuracy.

### **General Clerk II**

General Clerk II follows clearly detailed specific procedures in completing several repetitive clerical steps performed in a prescribed or slightly varied sequence, such as coding and filing documents in an extensive alphabetical file; could involve simple posting to individual accounts, opening mail, calculating and posting charges to departmental accounts, operating basic office equipment, e.g., photocopier, facsimile, multi-line phone/voicemail systems, mailing machines, and minimal computer programs. Little or no subject-matter knowledge is required, but the clerk uses his or her own judgment in choosing the proper procedure for each task.

### **General Clerk III**

General Clerk III maintains technical publications in a complete and current status per regulations. Incumbent requisitions, files, receives, screens, reviews, routes, and distributes all incoming technical manuals. Also monitors dispersed libraries and necessary control functions to distribute data. Incumbent complies with processes established for classified technical media receipt, storage, distribution, inventory, and disposition in accordance with current regulations.

### **Senior Administrative Assistant**

The Senior Administrative Assistant works closely with senior staff to coordinate office services and related activities, including developing and managing programs for the maximum utilization of resources, services and equipment. Manage activities such as mail and courier, facsimile equipment, and telephone services. Manage technical document production, which includes editing, graphics, word processing and reproduction. Serve as group coordinator to establish and implement the Company quality system. Make recommendations for purchase of new equipment and technology and for improvements to current work processes and methods to continually meet employee and customer needs.

### **Order Clerk I**

Receive calls with courtesy and tact. Provide information services. Answer questions regarding facility's organizational elements and current projects. Create new work orders based upon phone calls and emails in the contractor's systems. This position requires familiarity with the terminology of the office unit. The Clerk selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. The clerical steps often vary in type or sequence, depending on the task. Recognized problems are referred to others. This position receives, comprehends, provides, and responds to routine informational inquiries and service requests through the use of various communication technologies including but not limited to telephones, e-mail, facsimile, postal mail, and the Internet.

### **Order Clerk II**

Receive calls with courtesy and tact. Provide information services. Answer questions regarding facility's organizational elements and current projects. Create new work orders based upon phone calls and emails in the contractor's systems. This position requires familiarity with the terminology of the office unit. The Clerk selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. Responsible for performing duties as a Help Desk for basic data entry questions.

### **Order Clerk III**

Receive calls with courtesy and tact. Provide information services. Answer questions regarding facility's organizational elements and current projects. Create new work orders based upon phone calls and emails in the contractor's systems. This position requires familiarity with the terminology of the office unit. The Clerk selects appropriate methods from a wide variety of procedures or makes simple adaptations and interpretations of a limited number of substantive guides and manuals. Responsible for performing duties as a Help Desk for more complex data entry questions and coordination with senior staff as necessary.

### **Building Inspector**

Examines government living quarters for conformity to established quality, health, safety, or other standards, by performing any combination of the following duties: examines items for defects and for conformance to specifications, visually and by personally testing items such as fan switches; verifies that established standards are maintained relative to building and facilities and business

practices, operations and services. Prepares cost estimates for damages observed and delivers to the tenants.

### **Supply Technician**

Procure or oversee the procurement of all services, supplies, hardware, software, and other commodities required for Company facilities and employees to function. Review the procurement process for adherence to Company policies and Government regulations. Advise on the most efficient means of procuring items and applicable procedures.

### **Procurement Supervisor**

Provide an effective subcontract and procurement program, which ensures compliance with prime contract requirements. Negotiate, justify, and issue purchase orders for supplies and services in accordance with Company policies and procedures. Negotiate, document, and establish new subcontracts, including establishing evaluation criteria and plan, evaluating security subcontractors' offers, documenting subcontractors' capabilities, conducting evaluation of all proposals; creating subcontracts; and maintaining official complete subcontract files. Administer all subcontracts and purchase orders, including monitoring performance, prices, and certifications; exercising options, conducting market analysis and negotiating prices; maintaining subcontract and purchase order files; issuing modifications as necessary; assisting management in resolving subcontractor and vendor problems; and resolving invoicing issues with Finance and Accounting. May provide functional direction to other contracts and procurement personnel, including site visits and audits.

### **Procurement Specialist**

Work in conjunction with Procurement Supervisor and Supply Technicians to provide an effective subcontract and procurement program, which ensures compliance with prime contract requirements. Negotiate, justify, and issue purchase orders for supplies and services in accordance with Company policies and procedures. Negotiate, document, and establish new subcontracts, including establishing evaluation criteria and plan, evaluating security subcontractors' offers, documenting subcontractors' capabilities, conducting evaluation of all proposals; creating subcontracts; and maintaining official complete subcontract files.

### **Material Expediter**

Works to coordinate procurement and delivery of time sensitive materials needed to complete work orders, usually Emergency and Urgent Work Orders

### **Stock Clerk**

The Stock Clerk receives, stores, and issues equipment, materials, supplies, merchandise, foodstuffs, or tools, and compiles stock records of items in stockroom, warehouse or storage yard. This worker sorts, or weighs incoming articles to verify receipt of items on requisition or invoice, examines stock to verify conformance to specifications, stores articles in bins, on floor or on shelves, according to identifying information, such as style, size or type of material, fills orders or issues supplies from stock, prepares periodic, special or perpetual inventory of stock, and requisitions articles to fill incoming orders.

### **Shipping/Receiving Clerk**

The Shipping/Receiving Clerk performs clerical and physical tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, this worker follows established guidelines. In handling unusual non-routine problems, this worker receives specific guidance from supervisor or other officials. Shipping duties typically involve the following: verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles, and preparing and keeping records of goods shipped, e.g., manifests, bills of lading. Receiving duties typically involve the following: verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records, checking for damaged goods, insuring that goods are appropriately identified for routing to departments within the establishment, and preparing and keeping records of goods received.

### **Senior Electrician Journeyman**

The Senior Electrician Journeyman performs a variety of expert and challenging electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, and working complex computations relating to load requirements of wiring or electrical equipment.

### **Senior Electrician Lead**

The Senior Electrician Lead performs a variety of expert and challenging electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy. Work involves installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications, locating and diagnosing trouble in the electrical system or equipment, and working complex computations relating to load requirements of wiring or electrical equipment. This position provides guidance and supervision of other electricians.

### **UPS Technician**

Responsible for commissioning, maintaining and repairing critical power systems. Performs a complete visual inspection of the equipment including connections (input, output, internal), subassemblies, wiring harnesses, contacts, cables and major components. Checking air filters for cleanliness. Checking module(s) completely for the following (if applicable): Rectifier and inverter snubber boards for discoloration, power capacitors for swelling or leaking oil. Recording all voltage and current meter readings on the module control cabinet or the system control cabinet. Also includes checking the inverter and rectifier snubbers for burned or broken wires. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration. Check fuses on the DC capacitor deck for continuity. Performs operational test of the system including unit transfer and battery discharge. Calibrates and records all electronics to system specifications. Installs or

performs Engineering Field Change Notices (FCN) as necessary. Measures and records all low-voltage power supply levels. Measures and records phase-to-phase input voltage and currents.

### **Fire Alarm Helper**

The Fire Alarm Helper works closely in conjunction with Fire Alarm Technicians to assist in inspecting, testing, maintaining, and repairing installed fire alarm detection and suppression systems in accordance with manufacturer's specifications and National Fire Protection Association standards.

### **FAC Fire Alarm Tech III**

Responsible for providing inspection, testing and maintenance service for fire sprinkler equipment to comply with NFPA25 Standards as well as state and local codes; completing required documentation including deficiency repair recommendations; performing and/or coordinating work for compliance. Performs assigned tasks on Sprinkler systems. Tasks to include minor repair, as well as visual and functional testing on fire sprinkler systems in accordance with all national and local standards.

### **Elevator Journeyman Technician**

The Elevator Journeyman Technician is an expert in repairing and maintaining "Automated People Movers" and like named devices used in the transportation of people and materials including, but not limited to elevators, escalators, dumbwaiters, and moving walkways to meet safety regulations and building codes. Trouble shoots and determines causes of trouble in brakes, electrical motors, switches, signal and control systems, using computers, test lamps, voltmeters, ammeters, and oscilloscopes, disassembles defective units and repairs or replaces parts such as electrical door locks, cables, electrical wiring and faulty safety devices installs push button control systems, complete control systems, and other devices to modernize automated people mover systems, and cleans and lubricates bearing and other parts to minimize friction.

### **Elevator Technician Helper**

The Elevator Technician Helper works directly in conjunction with the Elevator Journeyman Technician to assist in the repair and maintenance of "Automated People Movers" and like named devices used in the transportation of people and materials including, but not limited to elevators, escalators, dumbwaiters, and moving walkways to meet safety regulations and building codes.

### **Pneudralic Systems Mechanic**

The Pneudraulic Systems Mechanic maintains, modifies, and repairs hydraulic and pneumatic systems and components that actuate mechanisms or produce, control, and regulate the flow of fluids (liquids and gases), tests for and isolates malfunctions in hydraulic and pneumatic systems or components, utilizing technical manuals and schematics, and modifies, repairs or disassembles and overhauls systems or components.

### **Senior Generator Maintenance Mechanic**

Provides expertise on electrical concepts and principals to diagnose and repair electric motors, electronic modules, motor control circuits, and electric power generation equipment. Installs,

repairs, maintains and adjusts instruments used to measure and control variables such as pressure, flow, temperature, motion, force and chemical composition.

### **Specialty Door Mechanic**

Assemble, install, test, and maintain automatic door equipment, appliances, apparatus, and fixtures, using hand tools and power tools. Diagnose malfunctioning control systems, apparatus, and components, using test equipment and hand tools, to locate the cause of a breakdown and correct the problem. Fastening of components/accessories to varying building fabrics. Inspect Automatic Door systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with codes of practice. Ensure tools and equipment requiring PAT testing is within date when used on site. Identify hazardous equipment, advise clients management and make safe accordingly. Adjust doors to open or close with the correct amount of effort and make simple adjustments to electric openers. Diagnose malfunctioning control systems, apparatus, and components, using test equipment and hand tools, to locate the cause of a breakdown and correct the problem. Inspect Automatic Door systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair, and to ensure compliance with codes of practice. Identify hazardous equipment, advise clients management and make safe accordingly. Fasten angle iron back-hangers to ceilings and tracks, using fasteners or welding equipment. Repair or replace worn or broken door parts, using hand tools. Install door frames, rails, electronic-eye mechanisms, and electric door openers and closers, using power tools, hand tools, and electronic test equipment.

### **Senior HVAC Mechanic Lead**

Supervises HVAC maintenance staff and reviews work completed by others. Installs, services and repairs environmental control systems in residences, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles and installs ductwork and chassis parts, using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in airduct system, using hand tools. Cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools. Cuts and threads pipe, using machine threading or hand threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints, using torch, forming complete circuit for refrigerant. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity controls and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges or soap and water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrician's hand tools and test equipment. May install, repair and service air conditioners, ranging from fifteen to twenty tons cooling capacity, in warehouses and small factory buildings.

### **Senior HVAC Mechanic Journeyman**

The Senior Heating, Ventilation, and Air-Conditioning Mechanic Journeyman is an expert in the field. Installs, services and repairs environmental-control systems in residences, department stores, office buildings, and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout, mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications, fabricates, assembles and installs ductwork and chassis parts, using portable metalworking tools and welding equipment, and installs evaporator unit in chassis or in air-duct system, using hand tools. This mechanic also cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools, cuts and threads pipe, using machine threading or hand-threading equipment, joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints, using torch, forming complete circuit for refrigerant, installs expansion and discharge valves in circuit. This worker connects motors, compressors, temperature controls, humidity controls, and circulating ventilation fans to control panels and connects control panels to power source; installs air and water filters in completed installation, injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. This mechanic observes pressure and vacuum gauges and adjusts controls to insure proper operation, tests joints and connections for gas leaks, using gauges or soap-and-water solution, wraps pipes in insulation batting and secures them in place with cement or wire bands, replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, may install, repair and service air conditioners, ranging from fifteen to twenty tons cooling capacity in warehouses and small factory buildings

### **Ventilation Equipment Tender**

Tends ventilating and heating equipment, such as fans, vacuum pumps, air compressors, vents and ducts, and lubrication-oil coolers used in buildings or industrial processes; adjusts valves to regulate temperature of lubrication oil and flow of water through system, moves controls to regulate speed of fans, adjust vents and ducts, records gauge readings, and repairs completed, and time lost because of inoperative equipment. This worker writes repair work order tickets and out-of-order tags preparatory to equipment repair, inspects equipment to detect excessive noise and heat, replaces gauges and tightens and chalks leaky fittings, using wrenches, hammers, and chalking tool, cleans carbon deposits, pitch, and grease from fans, vents and ducts, using scrapers, hammer, and compressed air or steam.

### **Senior Refrigeration Engineer**

Maintains and repairs refrigeration, air conditioning, heating, and ventilation systems, makes periodic inspections of equipment and systems including connected auxiliaries such as refrigerators, drinking fountains, and ice-making machines. Duties include replacing pumps and compressors, cleaning condensers and ducts, replacing worn or defective parts, and keeping complete records on operation, maintenance, and repair of equipment. Perform prescribed, predictive, and routine maintenance procedures on supermarket refrigeration systems and self-contained temperature-controlled merchandisers. Braze any metal or dissimilar metals (copper to: brass or aluminum.) Ability to locate and repair refrigerant leaks. Able to recognize deficiencies in pipe hangers and properly repair them, Is proficient at line sizing on small and large projects. Know the proper way to pipe a coil for hot gas or Koolgas defrost. Understand how varying loads affect TXV operation. Know how to properly leak check water-cooled condensers. Able to

troubleshoot any electrical problem, offer solutions, and implement them. Able to check and test all defrost components on low temperature application. Know how to repair complex technical problems as they relate to the refrigeration system. Know the importance of using factory-specified TD design criteria when diagnosing case problems. Understand how the RMCS controller (Danfoss, CPC, Novar) controls each component by input data.

### **Senior Maintenance Carpenter Lead**

The Senior Maintenance Carpenter Lead is responsible for supervising and coordinating the work of a crew of technical staff as well as ensuring that all work installed is completed on time, on budget and according to all applicable plans, specifications, codes and industry standards. Performs the carpentry duties necessary to maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors. Work involves most of the following: planning and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power tools and standard measuring instruments, and making standard shop computations relating to dimensions of work; and selecting materials necessary for the work.

### **Senior Maintenance Carpenter**

The Senior Maintenance Carpenter performs complex carpentry duties necessary to maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors. Work involves most of the following: planning and laying out of work from blueprints, drawings, models, or verbal instructions, using a variety of carpenter's hand tools, portable power tools and standard measuring instruments, and making standard shop computations relating to dimensions of work; and selecting materials necessary for the work.

### **Woodworker**

The Woodworker constructs and repairs items such as boxes, crates, pallets, and storage bins from wood and wood substitutes, studies specifications; and measures, marks, and cuts boards, using patterns, templates, ruler, pencil, and hand and power saws. This worker fastens or installs parts, using hammer, nailing machine, or power staple, repairs defective containers by replacing damaged parts, inserts wood bracings, cardboard files, and felt pads in containers.

### **General Maintenance Worker**

The General Maintenance Worker performs general maintenance and repair of equipment and buildings requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work involves a variety of the following duties: replacing electrical receptacles, wires, switches, fixtures, and motors, using plaster or compound to patch minor holes and cracks in walls and ceilings, repairing or replacing sinks, water coolers, and toilets painting structures and equipment; repairing or replacing concrete floors, steps, and sidewalks, replacing damaged paneling and floor tiles, hanging doors and installing door locks, replacing broken window panes, and performing general maintenance on equipment and machinery.

### **Senior Locksmith**

The Senior Locksmith performs complex installations, repairs, modifications on a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. Examines locking mechanism and installs new unit or disassembles unit and replaces worn tumblers, springs, and other parts or repairs them by filing, drilling, chiseling and grinding, opens door locks by moving lock pick in cylinder or opens safe locks by listening to lock sounds or drilling.

### **Senior Locksmith Lead**

The Senior Locksmith Lead oversees other staff members who install, repair, modify, and open a variety of locking mechanisms found on doors, desks, compartments, mobile equipment, safes, and vaults. This worker assured the work performed by other locksmiths is accurate and completed per specifications.

### **Floor Tile Installer - Helper**

Assists the Floor Tile Installer - Journeyman in performing repairs to concrete walls, floors walls and ceilings. Assists with laying brick and/or stone, setting ceramic floors and/or wall tiles as well as performing masonry demolition and patching as required.

### **Floor Tile Installer - Journeyman**

Performs complex repairs to concrete walls, floors walls and ceilings. Lays brick and/or stone, sets ceramic floors and/or wall tiles as well as performing masonry demolition and patching as required.

### **Roofer-Helper**

Assists the Roofer in all aspects of moving, cutting, measuring and application of roofing materials.

### **Roofer**

Cover roofs of structures with shingles, slate, tiles, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures. Apply alternate layers of hot asphalt or tar and roofing paper to roofs, according to specification. Apply gravel or pebbles over top layers of roofs, using rakes or stiff-bristled brooms. Apply plastic coatings and membranes, fiberglass, or felt over sloped roofs before applying shingles. Cement or nail flashing-strips of metal or shingle over joints to make them watertight. Cut felt, shingles, and strips of flashing; and fit them into angles formed by walls, vents, and intersecting roof surfaces. Inspect problem roofs to determine the best procedures for repairing them. Waterproof and damp-proof walls, floors, roofs, foundations, and basements by painting or spraying surfaces with waterproof coatings, or by attaching waterproofing membranes to surfaces. Estimate roofing materials and labor required to complete jobs and provide price quotes.

### **Glass and Security Film Technician**

Cut, fit, install, repair, and replace glass and glass substitutes, such as plastic and aluminum, in building interiors or exteriors and in furniture or other products. Measure, cut, fit, and press anti-glare, security and blast-protection adhesive film to glass, or spray glass with tinting solution to prevent light glare. Read and interpret blueprints and specifications to determine size, shape, color, type, and thickness of glass, location of framing, installation procedures, and staging and scaffolding materials required. Create patterns on glass by etching, sandblasting, or painting designs.

### **Senior Maintenance Painter**

The Senior Maintenance Painter provides complex and challenging solution to painting projects based on substrates, climactic conditions and paint/coating types. Work involves the following: superior knowledge of surface peculiarities and types of paint required for different applications, preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices, and applying paint with spray gun or brush. Mixing colors, oils, white lead and other paint ingredients to obtain proper color or consistency.

### **Senior Maintenance Painter Lead**

The Senior Maintenance Painter Lead provides complex and challenging solution to painting projects based on substrates, climactic conditions and paint/coating types as well as supervising and guiding other painting staff members. Work involves the following: superior knowledge of surface peculiarities and types of paint required for different applications, preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices, and applying paint with spray gun or brush. Mixing colors, oils, white lead and other paint ingredients to obtain proper color or consistency.

### **Carpet Layer**

The Carpet Layer prepares floor by removing old carpet or other covering, stripping, patching, or cleaning floor, measures and cuts carpeting to size, using carpet knife; lays padding and places carpeting on top of padding, cuts, trims, and stretches carpeting to fit along wall edges, openings, and projections, installs metal edging and metal door strips; may lay carpet tiles, applying adhesive to floor, and transport carpeting to installation site.

### **Sheet Metal Worker, Maintenance**

The Sheet-Metal Worker, Maintenance fabricates, installs and maintains in good repair the sheet-metal equipment and fixtures (such as machine guards, grease pans, shelves, lockers, tanks, ventilators, chutes, ducts, metal roofing) of an establishment. Work involves most of the following: planning and laying out all types of sheet-metal maintenance work from blueprints, models, or other specifications, setting up and operating all available types of sheet-metal working machines, using a variety of hand tools in cutting, bending, forming, shaping, fitting and assembling, and installing sheet-metal articles as required. In general, the work of the maintenance sheet-metal worker requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

### **Senior Journeyman Plumber**

The Senior Journeyman Plumber provides complex and challenging solutions relating to the assembly, installation and repair to pipes, fittings and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes, studies building plans and working drawings to determine work aids required, and sequence of installations. This position has in-depth knowledge of structure to ascertain obstructions to be avoided to prevent weakening of structure resulting from installation of pipe and locates and marks position of pipe and pipe connections and passage holes for pipes in walls and floors. Provides consultation on those issues requiring this level of knowledge.

### **Senior Maintenance Plumber**

The Senior Maintenance Plumber provides complex and challenging solutions relating to assembling and installing valves, pipefittings, and pipes composed of metals, such as iron, steel, brass and lead, and nonmetals, such as glass, vitrified clay, and plastic. Joins pipe by use of screws, bolts, fittings, solder, plastic solvent, and caulks joints, fills pipe system with water or air and reads pressure gauges to determine whether system is leaking, installs and repairs plumbing fixtures, such as sinks, commodes, bathtubs, water heaters, hot water tanks, garbage disposal units, dishwashers, and water softeners. This person repairs and maintains plumbing by replacing washers in leaky faucets, mending burst pipes, and opening clogged drains, and may weld holding fixtures to steel structural members.

### **Water Treatment Plant Operator**

Controls treatment plant machines and equipment to purify and clarify water for human consumption and for industrial use. Operates and controls electric motors, pumps, and valves to regulate flow of raw water into treating plant and dumps specified amounts of chemicals such as chlorine, ammonia, and lime into water, or adjusts automatic devices that admit specified amounts of chemicals into tanks to disinfect, deodorize, and clarify water. Starts agitators to mix chemicals and allows impurities to settle to bottom of tank, turns valves to regulate water through filter beds to remove impurities, pumps purified water into water mains, monitors panel board and adjusts controls to regulator flow rates, loss of head pressure and water elevation and distribution of water. Cleans tanks and filter beds, using backwashing (reverse flow of water), repairs and lubricates machines and equipment, using hand- and power tools, tests water samples to determine acidity, color, and impurities, using colorimeter, turbidimeter, and conductivity meter. Work includes dumping chemicals such as alum into tanks to coagulate impurities and reduce acidity, recording data, such as residual content of chemicals, water turbidity, and water pressure.

### **Pipefitter, Maintenance**

The Pipefitter, Maintenance installs or repairs water, steam, gas or other types of pipe and pipefitting. Work involves most of the following: laying out work and measuring to locate position of pipe from drawings or other written specifications, cutting various sizes of pipe to correct lengths with chisel and hammer, oxyacetylene torch or pipe-cutting machines, threading pipe with stocks and dies. This person is responsible for bending pipe by hand-driven or power-driven machines, assembling pipe with couplings and fastening pipe to hangers, making standard shop computations relating to pressures, flow and size of pipe required; and making standard tests to determine whether finished pipes meet specifications.

### **Boiler Tender**

The Boiler Tender oversees and performs the operations and maintenance of central heating plants. Tends one or more boilers to produce steam or high-temperature water for use in an establishment, fires boiler, observes and interprets readings on gauges, meters, and charts which register various aspects of boiler operation, adjusts controls to insure safe and efficient boiler operation and to meet demands for steam or high temperature water. Also maintains a log in which various aspects of boiler operation are recorded; cleans, oils, makes minor repairs or assists in repair to boiler room equipment; and following prescribed methods, treats boiler water with chemicals and analyze boiler water for such things as acidity, causticity, and alkalinity.

### **Machinery Maintenance Mechanic**

The Machinery Maintenance Mechanic produces replacement parts and new parts in making repairs of metal parts of mechanical equipment. Work involves most of the following: interpreting written instructions and specifications, planning and laying out of work, using a variety of machinist's hand tools and precision measuring instruments, setting up and operating standard machine tools. Is responsible for the shaping of metal parts to close tolerances, making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals, selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment.

### **Stationary Engineer**

The Stationary Engineer operates and maintains one or more systems that provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water or electricity. Duties involve: observing and interpreting readings on gauges, meters and charts which register various aspects of the system's operation, adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided, recording in logs various aspects of the system's operation, keeping the engines, machinery and equipment of the system in good working order. This engineer may direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

### **Subject Matter Expert / Degreed Engineer**

To support management, organizational and business tasks, consult as a subject area expert to solve complex problems in technical areas, including but not limited to engineering, science, logistics, asset management, operations, research, program management, risk, information technology, finance, acquisition, etc. Collaborate with customer(s) to determine specific needs and requirements and to counsel within the expert area, including overseeing task execution. provide expert technical analyses and advice in specific technical areas to support management, organizational and business decisions. Participate in meetings, task groups, teams, reviews and other environments to assist in collaborative results. Conduct site visits, investigations and studies to gather information. Prepare reports, presentations and papers to document findings, opinions and recommendations.

### **Maintenance Trades Helper**

Helper assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill such as: keeping a worker supplied with materials and tools, cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade. In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas and in others, the worker is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

### **Laborer**

The Laborer performs tasks that require mainly physical abilities and effort involving little or no specialized skill or prior work experience. The following tasks are typical of this occupation: The Laborer loads and unloads trucks, and other conveyances, moves supplies and materials to proper location by wheelbarrow or hand truck; stacks materials for storage or binning, collects refuse and salvageable materials, and digs, fills, and tamps earth excavations, The Laborer levels ground using pick, shovel, tamper and rake, shovels concrete and snow; cleans culverts and ditches, cuts tree and brush; operates power lawnmowers, moves and arranges heavy pieces of office and household furniture, equipment, and appliance.

### **Laborer, Grounds Maintenance Lead**

Responsible for facility operations, maintenance and repair services; custodial services; grounds maintenance; and refuse waste and recycling collection and disposal. Primary responsibility is the day to day operation and maintenance of a multi-skilled workforce performing operation and maintenance of facilities to include electrical, HVAC, plumbing systems, and managing operation of an energy monitoring and control system (EMCS).

### **Laborer, Grounds Maintenance**

The Laborer, Grounds Maintenance maintains grounds of industrial, commercial or public property such as buildings, camp and picnic grounds, parks, playgrounds, greenhouses, and athletic fields, and repairs structures and equipment, performing one or more of the following tasks: cut grass, using walking-type or riding mowers , trim hedges and edges around walks, flowerbeds, and wells, using hedge trimmers, clippers and edging tools, prunes shrubs and trees to shape and improve growth, using shears and other hand tools, sprays lawn, shrubs, and trees with fertilizer or insecticide.

### **Gardener**

Plans and executes small scale landscaping operations and maintains grounds and landscape of household, business and other properties. Works with assistant in preparing and grading terrain, applying fertilizers, seeding and sodding lawns, and transplanting shrubs and plants, and cultivates them, using gardening implements and power-operated equipment. Plants new and repairs established lawns, using seed mixtures and fertilizers recommended for particular soil type and lawn location. Locates and plants shrubs, trees, and flowers recommended for particular landscape effect or those selected by property owner. Mows and trims lawns, using hand or power mower. Trims shrubs and cultivates gardens. Sprays trees and shrubs and applies supplemental

liquid and dry nutrients to lawn, trees and shrubs. Cleans ground, using rakes, brooms, and hose. May dig trenches and install drain tiles. May repair concrete and asphalt walks and driveways.

### **Tree Care Specialist**

The Tree Care Specialist identifies and inspects trees for damage and/or diseases. Uses loppers to remove limbs from designated trees, applies spacing guidelines for selection of best trees, and cuts or severs all live or dead limbs of selected trees to a specified height.

### **Pest Controller, Lead**

The Pest Controller Lead coordinates all activities of a facility pest control operation. Supervises staff as they inspect facilities such as Dining Facilities and Commissaries periodically and prepares reports. Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas, fumigates rooms and buildings using toxic gases, sprays chemical solutions or dusts powders in rooms and work areas, places poisonous paste or bait and mechanical traps where pests are present; may clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating; and may be required to hold State license.

### **Pest Controller**

The Pest Controller inspects facilities such as Dining Facilities and Commissaries periodically and prepares reports. Sprays chemical solutions or toxic gases and sets mechanical traps to kill pests that infest buildings and surrounding areas, fumigates rooms and buildings using toxic gases, sprays chemical solutions or dusts powders in rooms and work areas, places poisonous paste or bait and mechanical traps where pests are present; may clean areas that harbor pests, using rakes, brooms, shovels, and mops preparatory to fumigating; and may be required to hold State license.

### **Housekeeping Aide**

The Housekeeping Aide performs special cleaning projects as well as daily cleaning duties in accordance with standard procedures of the housekeeping department and with hospital objectives. An employee uses cleaning equipment, including automatic floor machines, commercial vacuums, wet mops, large wringers and other necessary equipment, tools, chemicals and supplies. The Housekeeping Aide will dry and wet mop floors, scrub and buff floors with rotor and other machines, vacuum carpets to clean and control bacteria, transport trash from utility rooms and other collection points to incinerator, compactor, or pick-up area, perform special cleaning of induction units, walls, lighting fixtures, and windows, both inside and outside, move furniture and set up meeting rooms.

### **Dry Cleaner**

Work involves most of the following: knowledge of cleaning processes, fabrics, and colors, placement of sorted articles in drum of cleaning machine, operation of valves to admit cleaning fluids into drum of machine, starting of the drum, allowance of the drum it to rotate until articles are cleaned and removal of articles from machine, and the raining and filtering of cleaning fluid.

In addition, the Dry Cleaner may operate an extractor or tumbling machine or place articles in a cabinet dryer.

### **Window Cleaner**

The Window Cleaner cleans windows, glass partitions, mirrors, and other glass surfaces of building interior or exterior, using pail of soapy water or other cleaner, sponge, and squeegee, crawls through windows from inside and hooks safety belt to brackets for support; sets and climbs ladder to reach second or third story; uses basin chair, swings stage or other scaffolding lowered from roof to reach outside windows; or stands to reach first floor or inside windows.

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## **CBA Rates Specific for Washington, DC IUOE**

### **Chief Engineer**

The primary function of the Engineering Supervisor is to ensure all equipment is fully operations at all times and in compliance with GSA requirements, District of Columbia, federal codes/laws, rules and regulations. The chief supervises all employees assigned under this contract. He/she shall provide management oversight for all phases of the Operation and Maintenance at the St. Elizabeth's Complex. In addition to supervising personnel, a Chief Engineer oversees policies, procedures, protocols and controls that govern operations. In addition of project management. a chief engineer sets goals and objectives — short and long term for the staff, Selects and coordinates work of all subcontractors needed for operations and preventive maintenance.

### **Assistant Chief Engineer**

Assistant Chief Engineer is responsible for the safe and efficient operation of all equipment in the power plants. Also, is responsible for notification and organizing personnel in response to emergency calls after hours. The Assistant Chief Engineer is responsible for supervision of engineer leads, scheduling, assigning and completion of all preventive maintenance tasks and service orders for equipment associated with the power plant. The Assistant Chief Engineer reports directly to the Chief Engineer and is responsible for all associated reports involving the equipment in the main power plants. Performs other duties as assigned

### **Lead Engineer**

The Lead Engineer shall be in complete charge of the unit of the Employer to which he/she is assigned and under the direct supervision of the Chief Engineer. Is responsible for the safe and efficient operation and maintenance of the facility. May direct and coordinate activities of other workers in performing tasks related to operating and maintaining the system or systems

### **Engineer**

Responsible for the safe and efficient operation and maintenance during his/hret watch of all equipment in his/her plant as defined in Section 1.1. 1 above. Operates and maintains one or more systems which provides the facility with such services as heat, air- conditioning (cool,

Humidify, dehumidify, filter, and circulate air), refrigeration, steam or high temperature water or electricity, Duties involve: observing and interpreting readings on gauges, meters and charts which register various aspects of the system's operation, adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems

### **HVAC Mechanic, Lead**

As a working lead, this individual is responsible to his/her immediate supervisor for the safe and efficient operation of all equipment in his/her specialty qualification and for emergency notification of proper supervisory personnel as needed. He/She is also responsible for the scheduling and daily production of work assigned to the employees under his/her supervision. Installs, services and repairs environment-control systems in residence, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles and installs ductwork. Fabricates, assembles and installs ductwork and chassis parts. using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in air-duct system, using hand tools. Cuts and bends tubing to correct length and shape. using cutting and bending equipment and tools. Cuts and threads pipe using machine-threading or hand-threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves, couplings or unions, and solders joints using torch, forming complete circuit for refrigerant. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity controls and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigerant into compressor to test systems and adds Freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges of soap-and-water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrical wiring to repair installed units, using electrician 's hand tools and test equipment. May install, repair and service air conditioners, (15 20 tons cooling capacity) in warehouses and small factory buildings.

### **HVAC Mechanic**

Installs, services and repairs environment-control systems in residences, department stores, office buildings and other commercial establishments, utilizing knowledge of refrigeration theory, pipefitting and structural layout. Mounts compressor and condenser units on platform or floor, using hand tools, following blueprints or engineering specifications. Fabricates, assembles and installs ductwork. Fabricates, assembles and installs ducts work and chassis parts, using portable metalworking tools and welding equipment. Installs evaporator unit in chassis or in air- duct system, using hand tools. Cuts and bends tubing to correct length and shape, using cutting and bending equipment and tools. Cuts and threads pipe, using machine- threading or hand-threading equipment. Joins tubing or pipes to various refrigerating units by means of sleeves. couplings or unions. and solders joints, using torch, forming complete circuit for refrigerants. Installs expansion and discharge valves in circuit. Connects motors, compressors, temperature controls, humidity

controls and circulating ventilation fans to control panels and connects control panels to power source. Installs air and water filters in completed installation. Injects small amount of refrigeration compressor to test systems and adds freon gas to build up prescribed operating pressure. Observes pressure and vacuum gauges and adjusts controls to insure proper operation. Tests joints and connections for gas leaks, using gauges or soap-and-water solution. Wraps pipes in insulation batting and secures them in place with cement or wire bands. Replaces defective breaker controls, thermostats, switches, fuses and electrical wiring to repair installed units, using electrical wiring to repair installed units, using electrician's hand tools and test equipment. May install, repair and service air conditioners, (15 — 20 tons cooling capacity) in warehouses and small factory buildings.

### **HVAC Controls Technician**

Installs, repairs, maintains and adjusts indicating, recording, telemetering and controlling instruments used to measure and control variables, such as pressure, flow, temperature, motion, force, and chemical composition, using hand tools and precision instruments. Disassembles malfunctioning instruments and examines and tests mechanism and circuitry for defects. Troubleshoots equipment in or out of control system and replaces or repairs defective parts. Reassembles instrument and tests assembly for conformance with specifications, using instruments, such as potentiometer, resistance bridge, manometer. And pressure gauge. Inspects instruments periodically and makes minor calibration adjustments to insure functioning within specified standards. May adjust and repair final control mechanisms, such as automatically controlled valves and positioners. Must possess a DC Journeyman's license and control system certification. May calibrate instruments according to established standards. Performs other duties as assigned.

### **Maintenance Mechanic**

Performs maintenance and repairs to all equipment as defined in Section 1.1.I above as it pertains to his/her trade under the direct supervision of his/her immediate superior. He/she shall at no time be assigned or stand an engineer's watch. Repairs machinery or mechanical equipment. Work involves most of the following: examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of hand tools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines and making all necessary adjustments for operation. In general, the work of a Maintenance Mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose primary duties involve setting up or adjusting machines.

### **General Maintenance Worker**

Performs general maintenance and repair of equipment and building requiring practical skill and knowledge (but not proficiency) in such trades as painting, carpentry, plumbing, masonry, and electrical work. Work may involve the following duties: replacing electrical receptacles, wires, switches, fixtures, and motors; using plaster or compound to patch minor holes and cracks in walls and ceilings, repairing or replacing sinks, water coolers, and toilets; painting structures and

equipment: repairing or replacing concrete floors, steps, and sidewalks; replacing damaged paneling and floor tiles; hanging doors and installing door locks; replacing broken window panes; and performing general maintenance on equipment and machinery. Performs other duties as assigned.

### **Plumber, Lead**

As a working lead and technical expert, this individual is responsible to his immediate supervisor for the safe and efficient operation of all equipment and components in his/her specialty, assigns work with quality control and in the absence of other leads, will provide direction as needed. Must have 10 years of plumbing plant experience for maintaining and upgrading plumbing equipment, piping, etc. Performs corrective and preventative maintenance on all plumbing related equipment. Other responsibilities include, but are not limited to, installing and/or repairing various plumbing equipment (water heaters, drinking fountains, toilets, sinks, etc.) throughout the facility. Also, must be certified /licensed in pipefitting, steam fitting or sprinkler systems.

### **Plumber**

Responsible for maintaining and upgrading plumbing equipment, piping, etc. Performs corrective and preventative maintenance on all plumbing related equipment. Other responsibilities include, but are not limited to, installing and/or repairing various plumbing equipment (water heaters, drinking fountains, toilets, sinks, etc.) throughout the facility. Also, a Plumber I must be certified/licensed in pipefitting, steam fitting or sprinkler systems.

### **Structural Lead**

As a working lead, responsible to his her immediate supervisor. for the safe and efficient operation of all equipment in his/her specialty qualification and for emergency y notification of proper supervisory personnel as needed. Also, responsible for the scheduling and daily production of work assigned to the employees under his/her supervision.

### **Carpenter**

Is responsible for performing a variety of carpentry duties as assigned. Carpentry services include, but are not limited to, the design, construction, installation and repair of wooden fixtures and structures such as cabinets, furniture, shelving, doors, plaques, and other custom wood products. Other duties include, but are not limited to, framing and finish work, painting, staining, etc. Monitors subcontractor performance as assigned, conducts jobsite troubleshooting and performs primary project layout and carpentry production.

### **Painter**

Paints and redecorates walls, woodwork and fixtures, as well as desks, tables, cabinets (metal and wood), machinery and curbs. Work involves the following: knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing Old finish or by placing putty or Miller in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead and other paint ingredients to obtain proper color or consistency. In addition to painting, responsible for taping and texturing of drywall as required. May be required to assist Maintenance Mechanic in duties that parallel a painter's primary tasks.

**Locksmith**

Installs, repairs, replace and maintain locks; open locks without keys by picking, drilling, and duplicating keys. Install door locks, replace and install all finished buildings hardware such as door closures, panic bars, repair locks on file cabinets, desks, and other pieces of furniture. Establish/maintain accurate records of key assignments. record changes in key and lock assignments. work from preventive maintenance schedules, use and operate tools of the trade and respond to emergency calls. Perform other job-related work as assigned.

**Maintenance Helper**

Performs all assigned duties under the immediate supervision of the Lead Engineer or his/her designee. Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade. In some trades, the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others, the worker is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

**Snow Removal Operator**

Specialist in all aspects of snow removal. Capable of manual snow removal, proper use and application of ice melt or other materials, and capable of operating equipment such as gas sweepers, blowers, front loaders, bobcats, dump trucks or state body trucks.

**Snow Removal Supervisor**

Manage, plan and supervise all aspects of a snow removal program. Review clients' needs and timelines. Determine staff, materials and assets needed to effectively and safely move and remove snow, ice and other debris. Liase with client to review and/or revise the program as needed.

**Junior UPS Technician**

Entry Level Position responsible for commissioning, maintaining and repairing critical power systems. Under supervision, performs a complete visual inspection of the equipment including connections (input, output, internal), subassemblies, wiring harnesses, contacts, cables and major components. Checking air filters for cleanliness. Checking module(s) completely for the following (if applicable): Rectifier and inverter snubber boards for discoloration, power capacitors for swelling or leaking oil. Recording all voltage and current meter readings on the module control cabinet or the system control cabinet. Also includes checking the inverter and rectifier snubbers for burned or broken wires. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration. Check fuses on the DC capacitor deck for continuity. Performs operational test of the system including unit transfer and battery discharge. Calibrates and records all electronics to system specifications. Installs or performs Engineering Field Change Notices (FCN) as necessary. Measures and records all low-voltage power supply levels. Measures and records phase-to-phase input voltage and currents.

### **Senior UPS Technician**

Senior Level Position responsible for commissioning, maintaining and repairing critical power systems. Performs a complete visual inspection of the equipment including connections (input, output, internal), subassemblies, wiring harnesses, contacts, cables and major components. Checking air filters for cleanliness. Checking module(s) completely for the following (if applicable): Rectifier and inverter snubber boards for discoloration, power capacitors for swelling or leaking oil. Recording all voltage and current meter readings on the module control cabinet or the system control cabinet. Also includes checking the inverter and rectifier snubbers for burned or broken wires. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration. Check fuses on the DC capacitor deck for continuity. Performs operational test of the system including unit transfer and battery discharge. Calibrates and records all electronics to system specifications. Installs or performs Engineering Field Change Notices (FCN) as necessary. Measures and records all low-voltage power supply levels. Measures and records phase-to-phase input voltage and currents. May train and or supervise other UPS Technician staff members

## APPENDIX C: ABOUT M.C. DEAN, INC.

M.C. Dean, Inc. is the nation's premier electrical design-build and systems integration firm for complex, mission-critical organizations.

M.C. Dean's capabilities include electrical, electronic security, telecommunications, life-safety, instrumentation and control, and command and control systems.

M.C. Dean, Inc. serves a diverse group of markets including Fortune 1000 corporations; universities; high tech and biotech firms; Federal, state, and local government clients; and other organizations with large scale, complex, and mission-critical infrastructure needs.

Established in 1949, M.C. Dean, Inc. has earned a reputation as an innovator and pioneer. Headquartered in Tysons Corner, Virginia, M.C. Dean, Inc. employs more than 4,700 professionals in offices throughout the Eastern United States, Europe and the Middle East.