

JANUS

RESEARCH GROUP

**GENERAL SERVICES ADMINISTRATION
FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SCHEDULE 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: www.GSAAdvantage.gov.

**Schedule for - Multiple Award Schedule
Federal Supply Group: Professional Services**

Contract Number: GS00F310CA

*For more information on ordering from Federal Supply Schedules
click on the FSS Schedules button at <http://www.gsa.gov/schedules-ordering>*

Contract Period: 17 SEPTEMBER 2015 – 16 SEPTEMBER 2020

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Business Size: Other Than Small Business**

Pricelist current through Modification PS-0039, effective June 16, 2020. Prices Shown Herein are Net (discount deducted).

TABLE OF CONTENTS

I. CUSTOMER INFORMATION: 3

1a. Awarded Special Item Numbers (SINs)..... 3

Labor Categories Pricing – All SINS..... 5

Training Courses - SIN 611430 14

Service Contract Labor Standards / Service Contract Act and Matrix 15

SUBSTITUTION POLICY 16

Labor Category Descriptions – SINS 541330ENG, 541380, 541420, 541715 16

Labor Category Descriptions - SINS 541611, 54264SVC..... 25

Training Course Descriptions - SIN 611430..... 36

Labor Category Descriptions - SINS 541614SVC and 611430 47

I. CUSTOMER INFORMATION:

1a. Awarded Special Item Numbers (SINs)

SIN	SIN Description
541330ENG	Engineering Services
541420	Engineering System Design and Integration Services
541380	Testing Laboratories
541611	Management and Financial Consulting, Acquisition and Grants Management Support, and Business Program and Project Management Services
541715	Engineering Research & Development & Strategic Planning
611430	Professional and Management Development Training
611512	Flight Training
541614SVC	Supply and Value Chain Management
OLM	Order-Level Materials

- 1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. **Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply.**
- 1c. If the Contractor is proposing hourly rates a description of all corresponding commercial job titles, experience, functional responsibility, and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate "Not applicable" for this item.
2. **Maximum Order:** \$1,000,000.00
3. **Minimum Order:** \$100.00
4. **Geographic Coverage (delivery Area):** Domestic and Overseas
5. **Point(s) of production (city, county, and state or foreign country):** Same as company address
6. **Discount from list prices or statement of net price:** Government net prices (discounts already deducted). See Attachment.
7. **Quantity Discounts:** SINS 541330ENG, 541420, and 541380: 3% off task orders greater than \$2 million.

Quantity Discounts applicable to SINS: 541614SVC and 611430:

Task Order Amount (\$)	Discount (%)
\$500,000	0.5%
\$1,000,000	1.0%
\$1,500,000	1.5%
\$2,000,000	2.0%

Quantity Discounts applicable to SINS: 541611, and 611430:

Task Order Amount (\$)	Discount (%)
\$150,000 - \$2,000,000	2.0%
\$2,000,001- \$9,999,999	3.0%
\$10,000,000	3.5%

8. **Prompt payment terms:** Net 30 days. Information for Ordering offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.
- 9a. **Notification that Government purchase cards are accepted up to the micro-purchase threshold:** Yes
- 9b. **Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold:** will accept
10. **Foreign items (list items by country of origin):** None
- 11a. **Time of Delivery (Contractor insert number of days):** Specified on the Task Order
- 11b. **Expedited Delivery. The Contractor will insert the sentence “Items available for expedited delivery are noted in this price list.” under this heading. The Contractor may use a symbol of its choosing to highlight items in its price list that have expedited delivery:** Contact Contractor
- 11c. **Overnight and 2-day delivery. The Contractor will indicate whether overnight and 2-day delivery are available. Also, the Contractor will indicate that the schedule customer may contact the Contractor for rates for overnight and 2-day delivery:** Contact Contractor
- 11d. **Urgent Requirements. The Contractor will note in its price list the “Urgent Requirements” clause of its contract and advise agencies that they can also contact the Contractor’s representative to affect a faster delivery:** Contact Contractor
12. **F.O.B Points(s):** Destination
- 13a. **Ordering Address(es):** Same as Contractor
- 13b. **Ordering procedures:** For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA’s) are found in Federal Acquisition Regulation (FAR) 8.405-3.
14. **Payment address(es):** Same as company address
15. **Warranty provision.:** Contractor’s standard commercial warranty.
16. **Export Packing Charges (if applicable):** N/A
17. **Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level):** Contact Contractor
18. **Terms and conditions of rental, maintenance, and repair (if applicable):** N/A
19. **Terms and conditions of installation (if applicable):** N/A
20. **Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):** N/A
- 20a. **Terms and conditions for any other services (if applicable):** N/A
21. **List of service and distribution points (if applicable):** N/A
22. **List of participating dealers (if applicable):** N/A
23. **Preventive maintenance (if applicable):** N/A
- 24a. **Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants:** N/A

24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found (e.g. contactor’s website or other location.) The EIT standards can be found at: www.Section508.gov/.

25. Data Universal Numbering System (DUNS) number: 036857050

26. JANUS is registered in the SAM database:

27. Final Pricing:

Labor Categories Pricing – All SINS

SINS 541330ENG, 541380, 541420, 541715, 541611, 541614SVC, 611430, 611512, rates escalate 3% yearly

Item	SIN	Awarded Labor Category	Site	Year 1	Year 2	Year 3	Year 4	Year 5
1	541330ENG, 541380, 541420, 541715	Biosafety/Biocontainment Specialist Engineer	Customer	\$98.00	\$100.94	\$103.97	\$107.09	\$110.30
2	541330ENG, 541380, 541420, 541715	Biosafety/Biocontainment Specialist Engineer	Contractor	\$108.92	\$112.19	\$115.55	\$119.02	\$122.59
3	541330ENG, 541380, 541420, 541715	Psychological Layered Voice Analysis (LVA) Engineer	Customer	\$144.08	\$148.40	\$152.85	\$157.44	\$162.16
4	541330ENG, 541380, 541420, 541715	Psychological Layered Voice Analysis (LVA) Engineer	Contractor	\$160.53	\$165.35	\$170.31	\$175.42	\$180.68
5	541330ENG, 541380, 541420, 541715	Administrative Assistant, Entry **	Customer	\$42.52	\$43.80	\$45.11	\$46.46	\$47.86
6	541330ENG, 541380, 541420, 541715	Administrative Assistant, Entry **	Contractor	\$45.27	\$46.63	\$48.03	\$49.47	\$50.95
7	541330ENG, 541380, 541420, 541715	Administrative Assistant, Executive/Scientist **	Customer	\$81.41	\$83.85	\$86.37	\$88.96	\$91.63
8	541330ENG, 541380, 541420, 541715	Administrative Assistant, Executive/Scientist **	Contractor	\$86.65	\$89.25	\$91.93	\$94.68	\$97.53
9	541330ENG, 541380, 541420, 541715	Administrative Assistant, Intermediate **	Customer	\$45.10	\$46.45	\$47.85	\$49.28	\$50.76
10	541330ENG, 541380, 541420, 541715	Administrative Assistant, Intermediate **	Contractor	\$48.03	\$49.47	\$50.96	\$52.48	\$54.06
11	541330ENG, 541380, 541420, 541715	Administrative Assistant, Journeyman **	Customer	\$53.61	\$55.22	\$56.87	\$58.58	\$60.34
12	541330ENG, 541380, 541420, 541715	Administrative Assistant, Journeyman **	Contractor	\$57.07	\$58.78	\$60.55	\$62.36	\$64.23
13	541330ENG, 541380, 541420, 541715	Administrative Assistant, Senior Lead **	Customer	\$65.86	\$67.84	\$69.87	\$71.97	\$74.13
14	541330ENG, 541380, 541420, 541715	Administrative Assistant, Senior Lead **	Contractor	\$70.10	\$72.20	\$74.37	\$76.60	\$78.90
15	541330ENG, 541380, 541420, 541715	Engineering (General) Entry	Customer	\$62.71	\$64.59	\$66.53	\$68.52	\$70.58

16	541330ENG, 541380, 541420, 541715	Engineering (General) Entry	Contractor	\$66.75	\$68.75	\$70.82	\$72.94	\$75.13
17	541330ENG, 541380, 541420, 541715	Engineering (General), Executive/Scientist	Customer	\$144.75	\$149.09	\$153.57	\$158.17	\$162.92
18	541330ENG, 541380, 541420, 541715	Engineering (General), Executive/Scientist	Contractor	\$154.12	\$158.74	\$163.51	\$168.41	\$173.46
19	541330ENG, 541380, 541420, 541715	Engineering (General) Intermediate	Customer	\$90.06	\$92.76	\$95.54	\$98.41	\$101.36
20	541330ENG, 541380, 541420, 541715	Engineering (General) Intermediate	Contractor	\$95.90	\$98.78	\$101.74	\$104.79	\$107.94
21	541330ENG, 541380, 541420, 541715	Engineering (General) Journeyman	Customer	\$106.45	\$109.64	\$112.93	\$116.32	\$119.81
22	541330ENG, 541380, 541420, 541715	Engineering (General) Journeyman	Contractor	\$113.33	\$116.73	\$120.23	\$123.84	\$127.55
23	541330ENG, 541380, 541420, 541715	Engineering (General) Senior Lead	Customer	\$124.87	\$128.62	\$132.47	\$136.45	\$140.54
24	541330ENG, 541380, 541420, 541715	Engineering (General) Senior Lead	Contractor	\$132.95	\$136.94	\$141.05	\$145.28	\$149.64
25	541330ENG, 541380, 541420, 541715	Engineering (System) Entry	Customer	\$87.57	\$90.20	\$92.90	\$95.69	\$98.56
26	541330ENG, 541380, 541420, 541715	Engineering (System) Entry	Contractor	\$93.23	\$96.03	\$98.91	\$101.87	\$104.93
27	541330ENG, 541380, 541420, 541715	Engineering (System) Executive/Scientist	Customer	\$180.32	\$185.73	\$191.30	\$197.04	\$202.95
28	541330ENG, 541380, 541420, 541715	Engineering (System) Executive/Scientist	Contractor	\$183.33	\$188.83	\$194.49	\$200.33	\$206.34
29	541330ENG, 541380, 541420, 541715	Engineering (System) Intermediate	Customer	\$99.94	\$102.94	\$106.03	\$109.21	\$112.48
30	541330ENG, 541380, 541420, 541715	Engineering (System) Intermediate	Contractor	\$106.43	\$109.62	\$112.91	\$116.30	\$119.79
31	541330ENG, 541380, 541420, 541715	Engineering (System) Journeyman	Customer	\$106.50	\$109.70	\$112.99	\$116.38	\$119.87
32	541330ENG, 541380, 541420, 541715	Engineering (System) Journeyman	Contractor	\$122.33	\$126.00	\$129.78	\$133.67	\$137.68
33	541330ENG, 541380, 541420, 541715	Engineering (System) Senior Lead	Customer	\$125.79	\$129.56	\$133.45	\$137.45	\$141.58
34	541330ENG, 541380, 541420, 541715	Engineering (System) Senior Lead	Contractor	\$128.02	\$131.86	\$135.82	\$139.89	\$144.09
35	541330ENG, 541380, 541420, 541715	Instructor, Entry	Customer	\$48.81	\$50.27	\$51.78	\$53.34	\$54.94

36	541330ENG, 541380, 541420, 541715	Instructor, Entry	Contractor	\$51.99	\$53.55	\$55.16	\$56.81	\$58.52
37	541330ENG, 541380, 541420, 541715	Instructor, Executive/Scientist	Customer	\$90.46	\$93.17	\$95.97	\$98.85	\$101.81
38	541330ENG, 541380, 541420, 541715	Instructor, Executive/Scientist	Contractor	\$96.36	\$99.25	\$102.23	\$105.30	\$108.45
39	541330ENG, 541380, 541420, 541715	Instructor, Intermediate	Customer	\$59.67	\$61.46	\$63.30	\$65.20	\$67.16
40	541330ENG, 541380, 541420, 541715	Instructor, Intermediate	Contractor	\$63.55	\$65.46	\$67.42	\$69.44	\$71.53
41	541330ENG, 541380, 541420, 541715	Instructor, Journeyman	Customer	\$71.06	\$73.19	\$75.39	\$77.65	\$79.98
42	541330ENG, 541380, 541420, 541715	Instructor, Journeyman	Contractor	\$75.66	\$77.93	\$80.27	\$82.68	\$85.16
43	541330ENG, 541380, 541420, 541715	Instructor, Senior Lead	Customer	\$79.15	\$81.52	\$83.97	\$86.49	\$89.08
44	541330ENG, 541380, 541420, 541715	Instructor, Senior Lead	Contractor	\$84.30	\$86.83	\$89.43	\$92.12	\$94.88
45	541330ENG, 541380, 541420, 541715	Program Manager, Executive/Scientist	Customer	\$220.60	\$227.22	\$234.03	\$241.06	\$248.29
46	541330ENG, 541380, 541420, 541715	Program Manager, Executive/Scientist	Contractor	\$232.35	\$239.32	\$246.50	\$253.90	\$261.51
47	541330ENG, 541380, 541420, 541715	Program Manager, Journeyman	Customer	\$135.65	\$139.72	\$143.91	\$148.23	\$152.68
48	541330ENG, 541380, 541420, 541715	Program Manager, Journeyman	Contractor	\$144.43	\$148.76	\$153.23	\$157.82	\$162.56
49	541330ENG, 541380, 541420, 541715	Program Manager, Senior Lead	Customer	\$200.73	\$206.75	\$212.95	\$219.34	\$225.92
50	541330ENG, 541380, 541420, 541715	Program Manager, Senior Lead	Contractor	\$213.40	\$219.80	\$226.40	\$233.19	\$240.18
51	541330ENG, 541380, 541420, 541715	Technical Writer, Entry **	Customer	\$37.96	\$39.10	\$40.27	\$41.48	\$42.72
52	541330ENG, 541380, 541420, 541715	Technical Writer, Entry **	Contractor	\$40.45	\$41.66	\$42.91	\$44.20	\$45.53
53	541330ENG, 541380, 541420, 541715	Technical Writer, Executive/Scientist	Customer	\$70.53	\$72.65	\$74.83	\$77.07	\$79.38
54	541330ENG, 541380, 541420, 541715	Technical Writer, Executive/Scientist	Contractor	\$75.10	\$77.35	\$79.67	\$82.06	\$84.53
55	541330ENG, 541380, 541420, 541715	Technical Writer, Intermediate **	Customer	\$43.39	\$44.69	\$46.03	\$47.41	\$48.84

56	541330ENG, 541380, 541420, 541715	Technical Writer, Intermediate **	Contractor	\$46.21	\$47.60	\$49.02	\$50.49	\$52.01
57	541330ENG, 541380, 541420, 541715	Technical Writer, Journeyman **	Customer	\$48.81	\$50.27	\$51.78	\$53.34	\$54.94
58	541330ENG, 541380, 541420, 541715	Technical Writer, Journeyman **	Contractor	\$51.99	\$53.55	\$55.16	\$56.81	\$58.52
59	541330ENG, 541380, 541420, 541715	Technical Writer, Senior Lead **	Customer	\$55.76	\$57.43	\$59.16	\$60.93	\$62.76
60	541330ENG, 541380, 541420, 541715	Technical Writer, Senior Lead **	Contractor	\$59.38	\$61.16	\$63.00	\$64.89	\$66.83
61	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Entry	Customer	\$55.35	\$57.01	\$58.72	\$60.48	\$62.30
62	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Entry	Contractor	\$58.93	\$60.70	\$62.52	\$64.39	\$66.33
63	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Executive/Scientist	Customer	\$146.45	\$150.84	\$155.37	\$160.03	\$164.83
64	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Executive/Scientist	Contractor	\$155.95	\$160.63	\$165.45	\$170.41	\$175.52
65	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Intermediate	Customer	\$66.17	\$68.16	\$70.20	\$72.31	\$74.47
66	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Intermediate	Contractor	\$70.48	\$72.59	\$74.77	\$77.02	\$79.33
67	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Journeyman	Customer	\$88.65	\$91.31	\$94.05	\$96.87	\$99.78
68	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Journeyman	Contractor	\$94.41	\$97.24	\$100.16	\$103.16	\$106.26
69	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Senior Lead	Customer	\$130.90	\$134.83	\$138.87	\$143.04	\$147.33
70	541330ENG, 541380, 541420, 541715	Telecommunications Specialist, Senior Lead	Contractor	\$139.39	\$143.57	\$147.88	\$152.32	\$156.88
71	541611, 611430, 611512	Administrative Support Specialist	Customer	\$54.56	\$56.20	\$57.88	\$59.62	\$61.41
72	541611, 611430, 611512	Administrative Support Specialist Senior	Customer	\$67.09	\$69.10	\$71.18	\$73.31	\$75.51
73	541611, 611430, 611512	Applications Developer Journeyman	Customer	\$67.09	\$69.10	\$71.18	\$73.31	\$75.51
74	541611, 611430, 611512	Applications Developer Journeyman	Contractor	\$80.69	\$83.11	\$85.60	\$88.17	\$90.82
75	541611, 611430, 611512	Applications Developer Master	Customer	\$87.81	\$90.44	\$93.16	\$95.95	\$98.83
76	541611, 611430, 611512	Applications Developer Master	Contractor	\$105.61	\$108.78	\$112.04	\$115.40	\$118.87

77	541611, 611430, 611512	Applications Systems Analyst Journeyman	Customer	\$60.70	\$62.52	\$64.40	\$66.33	\$68.32
78	541611, 611430, 611512	Applications Systems Analyst Journeyman	Contractor	\$72.98	\$75.17	\$77.42	\$79.75	\$82.14
79	541611, 611430, 611512	Applications Systems Analyst Senior	Customer	\$74.02	\$76.24	\$78.53	\$80.88	\$83.31
80	541611, 611430, 611512	Applications Systems Analyst Senior	Contractor	\$89.01	\$91.68	\$94.43	\$97.26	\$100.18
81	541611, 611430, 611512	Computer Scientist	Customer	\$134.48	\$138.51	\$142.67	\$146.95	\$151.36
82	541611, 611430, 611512	Computer Scientist	Contractor	\$146.36	\$150.75	\$155.27	\$159.93	\$164.73
83	541611, 611430, 611512	Senior Consultant	Customer	\$91.71	\$94.46	\$97.30	\$100.21	\$103.22
84	541611, 611430, 611512	Senior Consultant	Contractor	\$100.24	\$103.25	\$106.34	\$109.54	\$112.82
85	541611, 611430, 611512	Database Administrator	Customer	\$76.54	\$78.84	\$81.20	\$83.64	\$86.15
86	541611, 611430, 611512	Database Administrator	Contractor	\$83.52	\$86.03	\$88.61	\$91.26	\$94.00
87	541611, 611430, 611512	Database Specialist Senior	Customer	\$63.97	\$65.89	\$67.87	\$69.90	\$72.00
88	541611, 611430, 611512	Database Specialist Senior	Contractor	\$76.93	\$79.24	\$81.62	\$84.06	\$86.59
89	541611, 611430, 611512	Engineer	Customer	\$104.71	\$107.85	\$111.09	\$114.42	\$117.85
90	541611, 611430, 611512	Engineer	Contractor	\$107.45	\$110.67	\$113.99	\$117.41	\$120.94
91	541611, 611430, 611512	Hardware Engineer Senior	Customer	\$103.75	\$106.86	\$110.07	\$113.37	\$116.77
92	541611, 611430, 611512	Hardware Engineer Senior	Contractor	\$112.92	\$116.31	\$119.80	\$123.39	\$127.09
93	541611, 611430, 611512	Information Assurance/Security Specialist Journeyman	Customer	\$61.57	\$63.42	\$65.32	\$67.28	\$69.30
94	541611, 611430, 611512	Information Assurance/Security Specialist Journeyman	Contractor	\$74.04	\$76.26	\$78.55	\$80.91	\$83.33
95	541611, 611430, 611512	Information Assurance/Security Specialist Master	Customer	\$95.08	\$97.93	\$100.87	\$103.90	\$107.01
96	541611, 611430, 611512	Information Assurance/Security Specialist Master	Contractor	\$114.32	\$117.75	\$121.28	\$124.92	\$128.67
97	541611, 611430, 611512	Information Specialist Knowledge Engineer	Customer	\$127.08	\$130.89	\$134.82	\$138.86	\$143.03
98	541611, 611430, 611512	Information Specialist Knowledge Engineer	Contractor	\$138.30	\$142.45	\$146.72	\$151.12	\$155.66
99	541611, 611430, 611512	Principal Budget Analyst	Customer	\$96.31	\$99.20	\$102.18	\$105.24	\$108.40
100	541611, 611430, 611512	Principal Computer Scientist	Customer	\$106.50	\$109.70	\$112.99	\$116.38	\$119.87
101	541611, 611430, 611512	Principal Computer Scientist	Contractor	\$117.14	\$120.65	\$124.27	\$128.00	\$131.84
102	541611, 611430, 611512	Principal Functional Area Expert	Customer	\$115.83	\$119.30	\$122.88	\$126.57	\$130.37

103	541611, 611430, 611512	Principal Functional Area Expert	Contractor	\$126.34	\$130.13	\$134.03	\$138.06	\$142.20
104	541611, 611430, 611512	Program Manager	Customer	\$138.34	\$142.49	\$146.76	\$151.17	\$155.70
105	541611, 611430, 611512	Program Manager	Contractor	\$152.91	\$157.50	\$162.22	\$167.09	\$172.10
104	541611, 611430, 611512	Program Manager	Customer	\$138.34	\$142.49	\$146.76	\$151.17	\$155.70
106	541611, 611430, 611512	Project Manager	Customer	\$131.05	\$134.98	\$139.03	\$143.20	\$147.50
107	541611, 611430, 611512	Project Manager	Contractor	\$138.34	\$142.49	\$146.76	\$151.17	\$155.70
108	541611, 611430, 611512	Quality Assurance Specialist, Master	Customer	\$93.59	\$96.40	\$99.29	\$102.27	\$105.34
109	541611, 611430, 611512	Quality Assurance Specialist, Master	Contractor	\$101.85	\$104.91	\$108.05	\$111.29	\$114.63
110	541611, 611430, 611512	Senior Applications Systems Analyst/Programmer	Customer	\$98.03	\$100.97	\$104.00	\$107.12	\$110.33
111	541611, 611430, 611512	Senior Applications Systems Analyst/Programmer	Contractor	\$105.93	\$109.11	\$112.38	\$115.75	\$119.23
112	541611, 611430, 611512	Senior Budget Analyst	Customer	\$77.04	\$79.35	\$81.73	\$84.18	\$86.71
113	541611, 611430, 611512	Senior Systems Engineer	Customer	\$127.40	\$131.22	\$135.16	\$139.21	\$143.39
114	541611, 611430, 611512	Senior Systems Engineer	Contractor	\$134.92	\$138.97	\$143.14	\$147.43	\$151.85
115	541611, 611430, 611512	Subject Matter Expert, Master	Customer	\$107.55	\$110.78	\$114.10	\$117.52	\$121.05
116	541611, 611430, 611512	Subject Matter Expert, Master	Contractor	\$117.04	\$120.55	\$124.17	\$127.89	\$131.73
117	541611, 611430, 611512	Subject Matter Expert, Senior	Customer	\$98.28	\$101.23	\$104.27	\$107.39	\$110.62
118	541611, 611430, 611512	Subject Matter Expert, Senior	Contractor	\$106.96	\$110.17	\$113.47	\$116.88	\$120.38
119	541611, 611430, 611512	Technical Trainer	Customer	\$79.18	\$81.56	\$84.00	\$86.52	\$89.12
120	541611, 611430, 611512	Technical Trainer	Contractor	\$86.54	\$89.14	\$91.81	\$94.56	\$97.40
121	541611, 611430, 611512	Technical Writer, Executive/Scientist	Contractor	\$70.79	\$72.91	\$75.10	\$77.35	\$79.67
122	541611, 611430, 611512	Training Specialist Journeyman	Customer	\$55.16	\$56.81	\$58.52	\$60.27	\$62.08
123	541611, 611430, 611512	Training Specialist Journeyman	Contractor	\$66.34	\$68.33	\$70.38	\$72.49	\$74.67
124	541611, 611430, 611512	Virtual Reality Modeler	Customer	\$88.77	\$91.43	\$94.18	\$97.00	\$99.91
125	541611, 611430, 611512	Virtual Reality Modeler	Contractor	\$97.00	\$99.91	\$102.91	\$105.99	\$109.17
126	541611, 611430, 611512	Virtual Reality Modeler Senior	Customer	\$106.91	\$110.12	\$113.42	\$116.82	\$120.33
127	541611, 611430, 611512	Virtual Reality Modeler Senior	Contractor	\$116.83	\$120.33	\$123.94	\$127.66	\$131.49

128	541611, 611430, 611512	Voice/Data Engineer Journeyman	Customer	\$62.93	\$64.82	\$66.76	\$68.77	\$70.83
129	541611, 611430, 611512	Voice/Data Engineer Journeyman	Contractor	\$75.67	\$77.94	\$80.28	\$82.69	\$85.17
130	541611, 611430, 611512	Voice/Data Engineer Senior	Customer	\$75.35	\$77.61	\$79.94	\$82.34	\$84.81
131	541611, 611430, 611512	Voice/Data Engineer Senior	Contractor	\$90.62	\$93.34	\$96.14	\$99.02	\$101.99
132	541611, 611430, 611512	Word Processor/Graphics	Customer	\$47.14	\$48.55	\$50.01	\$51.51	\$53.06
133	541611, 611430, 611512	Word Processor/Graphics	Contractor	\$50.93	\$52.46	\$54.03	\$55.65	\$57.32
134	541614SVC, 611430	Administrative Support Specialist (Logistics)	Customer	\$51.12	\$52.55	\$54.02	\$55.54	\$57.09
135	541614SVC, 611430	Administrative Support Specialist (Logistics)	Contractor	\$52.68	\$54.16	\$55.67	\$57.23	\$58.83
136	541614SVC, 611430	Administrative Support Specialist Junior	Customer	\$44.35	\$45.59	\$46.87	\$48.18	\$49.53
137	541614SVC, 611430	Administrative Support Specialist Junior	Contractor	\$49.33	\$50.71	\$52.13	\$53.59	\$55.09
138	541614SVC, 611430	Administrative Support Specialist Senior	Customer	\$62.86	\$64.62	\$66.43	\$68.29	\$70.20
139	541614SVC, 611430	Administrative Support Specialist Senior	Contractor	\$64.75	\$66.56	\$68.43	\$70.34	\$72.31
140	541614SVC, 611430	Applications Developer Journeyman (Logistics)	Customer	\$66.70	\$68.57	\$70.49	\$72.46	\$74.49
141	541614SVC, 611430	Applications Developer Journeyman (Logistics)	Contractor	\$80.22	\$82.47	\$84.78	\$87.15	\$89.59
142	541614SVC, 611430	Applications Developer Master (Logistics)	Customer	\$87.30	\$89.74	\$92.26	\$94.84	\$97.50
143	541614SVC, 611430	Applications Developer Master (Logistics)	Contractor	\$104.99	\$107.93	\$110.95	\$114.06	\$117.25
144	541614SVC, 611430	Applications Systems Analyst Journeyman (Logistics)	Customer	\$60.34	\$62.03	\$63.77	\$65.55	\$67.39
145	541614SVC, 611430	Applications Systems Analyst Journeyman (Logistics)	Contractor	\$72.56	\$74.59	\$76.68	\$78.83	\$81.03
146	541614SVC, 611430	Applications Systems Analyst Senior (Logistics)	Customer	\$73.59	\$75.65	\$77.77	\$79.95	\$82.18
147	541614SVC, 611430	Applications Systems Analyst Senior (Logistics)	Contractor	\$88.50	\$90.98	\$93.53	\$96.14	\$98.84
148	541614SVC, 611430	Computer Scientist (Logistics)	Customer	\$133.70	\$137.44	\$141.29	\$145.25	\$149.32
149	541614SVC, 611430	Computer Scientist (Logistics)	Contractor	\$145.51	\$149.58	\$153.77	\$158.08	\$162.50
150	541614SVC, 611430	Configuration Management Control Administrator	Customer	\$79.17	\$81.39	\$83.67	\$86.01	\$88.42
151	541614SVC, 611430	Consultant Senior	Customer	\$91.18	\$93.73	\$96.36	\$99.06	\$101.83
152	541614SVC, 611430	Consultant Senior	Contractor	\$99.66	\$102.45	\$105.32	\$108.27	\$111.30
153	541614SVC, 611430	Database Specialist Senior (Logistics)	Customer	\$63.60	\$65.38	\$67.21	\$69.09	\$71.03

154	541614SVC, 611430	Database Specialist Senior (Logistics)	Contractor	\$76.48	\$78.62	\$80.82	\$83.09	\$85.41
155	541614SVC, 611430	Engineer (Logistics)	Customer	\$104.11	\$107.03	\$110.02	\$113.10	\$116.27
156	541614SVC, 611430	Engineer (Logistics)	Contractor	\$106.82	\$109.81	\$112.89	\$116.05	\$119.30
157	541614SVC, 611430	Financial Analyst	Customer	\$95.46	\$98.13	\$100.88	\$103.71	\$106.61
158	541614SVC, 611430	Financial Analyst	Contractor	\$103.90	\$106.81	\$109.80	\$112.87	\$116.03
159	541614SVC, 611430	Hardware Engineer Senior (Logistics)	Customer	\$103.15	\$106.04	\$109.01	\$112.06	\$115.20
160	541614SVC, 611430	Hardware Engineer Senior (Logistics)	Contractor	\$112.27	\$115.41	\$118.65	\$121.97	\$125.38
161	541614SVC, 611430	Information Assurance/Security Specialist Journeyman (Logistics)	Customer	\$61.22	\$62.93	\$64.70	\$66.51	\$68.37
162	541614SVC, 611430	Information Assurance/Security Specialist Journeyman (Logistics)	Contractor	\$73.61	\$75.67	\$77.79	\$79.97	\$82.21
163	541614SVC, 611430	Information Assurance/Security Specialist Master (Logistics)	Customer	\$94.53	\$97.18	\$99.90	\$102.69	\$105.57
164	541614SVC, 611430	Information Assurance/Security Specialist Master (Logistics)	Contractor	\$113.66	\$116.84	\$120.11	\$123.48	\$126.93
165	541614SVC, 611430	Information Specialist Knowledge Engineer (Logistics)	Customer	\$126.35	\$129.89	\$133.52	\$137.26	\$141.11
166	541614SVC, 611430	Information Specialist Knowledge Engineer (Logistics)	Contractor	\$137.49	\$141.34	\$145.30	\$149.37	\$153.55
167	541614SVC, 611430	Integrated Logistics Systems Manager	Customer	\$68.98	\$70.91	\$72.90	\$74.94	\$77.04
168	541614SVC, 611430	Integrated Logistics Systems Manager	Contractor	\$80.47	\$82.72	\$85.04	\$87.42	\$89.87
169	541614SVC, 611430	Integrated Logistics Systems Manager Principle	Customer	\$101.17	\$104.00	\$106.91	\$109.91	\$112.99
170	541614SVC, 611430	Integrated Logistics Systems Manager Principle	Contractor	\$115.38	\$118.61	\$121.93	\$125.35	\$128.86
171	541614SVC, 611430	Integrated Logistics Systems Manager Senior	Customer	\$84.52	\$86.89	\$89.32	\$91.82	\$94.39
172	541614SVC, 611430	Integrated Logistics Systems Manager Senior	Contractor	\$92.05	\$94.63	\$97.28	\$100.00	\$102.80
173	541614SVC, 611430	Logistician	Customer	\$58.77	\$60.42	\$62.11	\$63.85	\$65.63
174	541614SVC, 611430	Logistician	Contractor	\$65.27	\$67.10	\$68.98	\$70.91	\$72.89
175	541614SVC, 611430	Logistician Analyst 1	Customer	\$64.81	\$66.62	\$68.49	\$70.41	\$72.38
176	541614SVC, 611430	Logistician Systems Analyst	Customer	\$67.87	\$69.77	\$71.72	\$73.73	\$75.80
177	541614SVC, 611430	Program Manager (Logistics)	Customer	\$123.33	\$126.78	\$130.33	\$133.98	\$137.73
178	541614SVC, 611430	Program Manager (Logistics)	Contractor	\$148.31	\$152.46	\$156.73	\$161.12	\$165.63

179	541614SVC, 611430	Project Manager (Logistics)	Customer	\$126.49	\$130.03	\$133.67	\$137.42	\$141.26
180	541614SVC, 611430	Project Manager (Logistics)	Contractor	\$126.85	\$130.40	\$134.05	\$137.81	\$141.67
181	541614SVC, 611430	Quality Assurance Specialist Master (Logistics)	Customer	\$93.04	\$95.65	\$98.32	\$101.08	\$103.91
182	541614SVC, 611430	Quality Assurance Specialist Master (Logistics)	Contractor	\$101.25	\$104.09	\$107.00	\$110.00	\$113.08
183	541614SVC, 611430	Subject Matter Expert Master	Customer	\$106.93	\$109.92	\$113.00	\$116.17	\$119.42
184	541614SVC, 611430	Subject Matter Expert Master	Contractor	\$116.36	\$119.62	\$122.97	\$126.41	\$129.95
185	541614SVC, 611430	Subject Matter Expert Senior	Customer	\$97.71	\$100.45	\$103.26	\$106.15	\$109.12
186	541614SVC, 611430	Subject Matter Expert Senior	Contractor	\$106.33	\$109.31	\$112.37	\$115.51	\$118.75
187	541614SVC, 611430	Technical Trainer (Logistics)	Customer	\$78.72	\$80.92	\$83.19	\$85.52	\$87.91
188	541614SVC, 611430	Technical Trainer (Logistics)	Contractor	\$86.03	\$88.44	\$90.92	\$93.46	\$96.08
189	541614SVC, 611430	Training Specialist Journeyman (Logistics)	Customer	\$54.84	\$56.38	\$57.95	\$59.58	\$61.24
190	541614SVC, 611430	Training Specialist Journeyman (Logistics)	Contractor	\$65.95	\$67.80	\$69.69	\$71.65	\$73.65
191	541614SVC, 611430	Training Specialist Senior	Customer	\$70.77	\$72.75	\$74.79	\$76.88	\$79.04
192	541614SVC, 611430	Training Specialist Senior	Contractor	\$85.08	\$87.46	\$89.91	\$92.43	\$95.02
193	541614SVC, 611430	Virtual Reality Modeler (Logistics)	Customer	\$85.67	\$88.07	\$90.53	\$93.07	\$95.68
194	541614SVC, 611430	Virtual Reality Modeler (Logistics)	Contractor	\$88.94	\$91.43	\$93.99	\$96.62	\$99.33
195	541614SVC, 611430	Voice/Data Engineer Journeyman (Logistics)	Customer	\$62.56	\$64.31	\$66.11	\$67.96	\$69.87
196	541614SVC, 611430	Voice/Data Engineer Journeyman (Logistics)	Contractor	\$75.23	\$77.34	\$79.50	\$81.73	\$84.02
197	541614SVC, 611430	Voice/Data Engineer Senior (Logistics)	Customer	\$74.92	\$77.02	\$79.17	\$81.39	\$83.67
198	541614SVC, 611430	Voice/Data Engineer Senior (Logistics)	Contractor	\$90.09	\$92.61	\$95.21	\$97.87	\$100.61

Training Courses - SIN 611430

JANUS' escalation is based on the Dept. of Labor/Bureau of Labor Statistics Employment Cost Index, Series ID: CIU201000010000A (B,I) Not Seasonally Adjusted; Total Compensation; Private Industry; 12-month percent change; Management, professional and related. Price adjustments are not automatic and must be completed by a contract modification. Total Compensation; Private Industry; 12-month percent change; Management, professional and related. Price adjustments are not automatic and must be completed by a contract modification.

SIN	Course Title	Course Length (Days)	Minimum Participants	Maximum Participants	Contractor or Customer Site	Domestic or Overseas	Unit of Issue (e.g. Per Person, Per Course)	Award Rate (including IFF)
611430	CISCO ACADEMY ITTC-001 (1)	15	10	16	Customer Site	Domestic Only	Per Person	\$ 4,354.00
611430	CISCO ACADEMY ITTC-001 (2)	15	10	16	Customer Site	Domestic Only	Per Person	\$ 4,354.00
611430	VOICE OVER IP - VOIP ITTC-002	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	WEBMASTER I ITTC-005	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	SOFTWARE ENGINEER I ITTC-006 (1)	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	SOFTWARE ENGINEER I ITTC-006 (2)	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	MICROSOFT SYSTEM ADMINISTRATOR I ITTC-007	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	NETWORK ENGINEER I ITTC-008	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	NETWORK ENGINEER II ITTC-009	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	WEBMASTER II ITTC-010	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	MICROSOFT SYSTEM ADMINISTRATOR II ITTC-016	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	LAN/WAN MANAGER I ITTC-017	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	IMPLEMENT & SUPPORT MICROSOFT EXCHANGE ITTC-018	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	ORACLE DBA I PHASE I ITTC-040 (1)	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	ORACLE DBA I PHASE II ITTC-040 (2)	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	HP UNIX SYSTEM ADMIN I ITTC-043	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	HP UNIX SYSTEM ADMIN II ITTC-044	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	HP EVA SAN ADMINISTRATION ITTC-045	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	INTERNET INFORMATION SERVER (IIS) 6.0 ITTC-054	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	ORACLE DBA II ITTC-056	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	LAN/WAN MANAGER II ITTC-058	5	6	10	Customer Site	Domestic Only	Per Person	\$ 1,453.00

611430	DISTANCE LEARNING - ITC DL ITTC-061	5	15	25	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	DISTANCE LEARNING SITE OPS - DL ITTC-063	5	15	25	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	SMS ADMINISTRATION ITTC-065	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	ORACLE SQL I ITTC-066	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	NETWORK ADMINISTRATION I ITTC-070	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	MICROSOFT DBA I ITTC-071	5	12	20	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	MGC50 TECHNICAL MAINTENANCE COURSE ITTC-077	5	12	12	Customer Site	Domestic Only	Per Person	\$ 1,453.00
611430	COMSEC CUSTODIAN INSPECTOR'S CERTIFICATION ITTC-CCIC	10	12	20	Customer Site	Domestic Only	Per Person	\$ 2,904.00
611430	STANDARDIZED COMSEC CUSTODIAN COURSE ITTC-SCCC	10	12	20	Customer Site	Domestic Only	Per Person	\$ 2,904.00

Service Contract Labor Standards / Service Contract Act and Matrix

The Service Contract Labor Standards, formerly the Service Contract Act (SCA), apply to this contract and it includes SCLS applicable labor categories. Labor categories and fixed price service marked with a (**) in the pricelist are based on the U.S. Department of Labor Wage Determination Number(s) identified in the SCLS/SCA matrix. The prices awarded are in line with the geographic scope of the contract (i.e. nationwide).

SCLS Eligible Contract Labor Category	SCLS Equivalent Code - Title	WD Number
Administrative Assistant – Entry	01020 - Administrative Assistant	15-4465
Administrative Assistant – Intermediate	01020 - Administrative Assistant	15-4465
Administrative Assistant – Journeyman	01020 - Administrative Assistant	15-4465
Administrative Assistant – Senior Lead	01020 - Administrative Assistant	15-4465
Technical Writer - Entry	30461 - Technical Writer I	15-4465
Technical Writer - Intermediate	30462 - Technical Writer II	15-4465
Technical Writer - Journeyman	30463 - Technical Writer III	15-4465
Technical Writer – Senior Lead	30463 - Technical Writer III	15-4465

SUBSTITUTION POLICY

THE FOLLOWING EDUCATION AND EXPERIENCE SUBSTITUTIONS APPLY TO LABOR CATEGORIES AND DESCRIPTIONS FOR WHICH SUBSTITUTIONS ARE PERMITTED.

ONE (1) YEAR OF POST HIGH SCHOOL EDUCATION SUBSTITUTES FOR ONE AND ONE-HALF (1 ½) YEARS OF EXPERIENCE; ONE AND ONE-HALF (1 ½) YEARS OF EXPERIENCE SUBSTITUTE FOR ONE (1) YEAR OF EDUCATION. THE FOLLOWING GUIDELINES ARE PROVIDED:

- ASSOCIATE’S DEGREE IS EQUAL TO HIGH SCHOOL DIPLOMA PLUS 3 YEARS APPLICABLE EXPERIENCE.
- BACHELOR’S DEGREE IS EQUAL TO ASSOCIATE’S DEGREE PLUS 3 YEARS APPLICABLE EXPERIENCE OR HIGH SCHOOL DIPLOMA PLUS 6 YEARS APPLICABLE EXPERIENCE.
- MASTER’S DEGREE IS EQUAL TO BACHELOR’S DEGREE PLUS 3 YEARS APPLICABLE EXPERIENCE, OR ASSOCIATE’S DEGREE PLUS 6 YEARS APPLICABLE EXPERIENCE, OR HIGH SCHOOL DIPLOMA PLUS 9 YEARS APPLICABLE EXPERIENCE.

Labor Category Descriptions – SINS 541330ENG, 541380, 541420, 541715

JANUS Labor Category Descriptions	
Labor Category	Administrative Assistant (Entry Level)
Functional Responsibility:	Provides a wide variety of administrative and staff support services to an organizational unit. May assist in budget preparation and control activities. May assist in the preparation and control of records, statistics, and reports regarding operations, personnel changes, etc. Administers programs, projects, and/or processes specific to the operating unit served. May serve as administrative liaison with others within and outside the company regarding administrative issues related to purchasing, personnel, facilities and operations. May screen and interview job applicants and orient new employees.
Minimum Education/General Experience:	High School Diploma and 1 year applicable experience.
Labor Category	Administrative Assistant (Intermediate)
Functional Responsibility:	Provides a wide variety of administrative and staff support services to an organizational unit. May assist in budget preparation and control activities. May assist in the preparation and control of records, statistics, and reports regarding operations, personnel changes, etc. Administers programs, projects, and/or processes specific to the operating unit served. May serve as administrative liaison with others within and outside the company regarding administrative issues related to purchasing, personnel, facilities and operations. May screen and interview job applicants and orient new employees.
Minimum Education/General Experience:	High School Diploma and 5 years applicable experience.

Labor Category	Administrative Assistant (Journeyman)
Functional Responsibility:	Provides a wide variety of administrative and staff support services to an organizational unit. May assist in budget preparation and control activities. May assist in the preparation and control of records, statistics, and reports regarding operations, personnel changes, etc. Administers programs, projects, and/or processes specific to the operating unit served. May serve as administrative liaison with others within and outside the company regarding administrative issues related to purchasing, personnel, facilities and operations. May screen and interview job applicants and orient new employees.
Minimum Education/General Experience	High School Diploma and 6 years applicable experience.

Labor Category	Administrative Assistant (Senior/Lead)
Functional Responsibility:	Provides a wide variety of administrative and staff support services to an organizational unit. May assist in budget preparation and control activities. May assist in the preparation and control of records, statistics, and reports regarding operations, personnel changes, etc. Administers programs, projects, and/or processes specific to the operating unit served. May serve as administrative liaison with others within and outside the company regarding administrative issues related to purchasing, personnel, facilities and operations. May screen and interview job applicants and orient new employees.
Minimum Education/General Experience:	Bachelor's Degree. The Substitution Policy may be used here.

Labor Category	Administrative Assistant (Executive/Scientist)
Functional Responsibility:	Provides a wide variety of administrative and staff support services to an organizational unit. May assist in budget preparation and control activities. May assist in the preparation and control of records, statistics, and reports regarding operations, personnel changes, etc. Administers programs, projects, and/or processes specific to the operating unit served. May serve as administrative liaison with others within and outside the company regarding administrative issues related to purchasing, personnel, facilities and operations. May screen and interview job applicants and orient new employees.
Minimum Education/General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (General) (Entry)
Functional Responsibility:	Must have the technical background and skills to perform in all phases of hardware design, development, and documentation. Performs fundamental engineering duties in preliminary designs, performing tests, taking measurements and performing system analyses or simulations. Applies standard practices and techniques in specific engineering assignments. Prepares data and documentation when applicable. Instructs, as required, engineering technicians. May be required to perform duties associated with Logistical, Mechanical, Production and/or Value Engineering.
Minimum Education/General Experience:	Bachelor's Degree and 0 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (General) (Intermediate)
Functional Responsibility:	Must have the technical background and skills to perform in all phases of hardware design, development, and documentation. Performs fundamental engineering duties in preliminary designs, performing tests, taking measurements and performing system analyses or simulations. Applies standard practices and techniques in specific engineering assignments. Prepares data and documentation when applicable. Instructs, as required, engineering technicians. May be required to perform duties associated with Logistical, Mechanical, Production and/or Value Engineering.
Minimum Education/General Experience:	Bachelor's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (General) (Journeyman)
Functional Responsibility:	Must have the technical background and skills to perform in all phases of hardware design, development, and documentation. Performs fundamental engineering duties in preliminary designs, performing tests, taking measurements and performing system analyses or simulations. Applies standard practices and techniques in specific engineering assignments. Prepares data and documentation when applicable. Instructs, as required, engineering technicians. May be required to perform duties associated with Logistical, Mechanical, Production and/or Value Engineering.
Minimum Education/General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (General) (Senior/Lead)
Functional Responsibility:	Must have the technical background and skills to perform in all phases of hardware design, development, and documentation. Performs fundamental engineering duties in preliminary designs, performing tests, taking measurements and performing system analyses or simulations. Applies standard practices and techniques in specific engineering assignments. Prepares data and documentation when applicable. Instructs, as required, engineering technicians. May be required to perform duties associated with Logistical, Mechanical, Production and/or Value Engineering.

Minimum Education/ General Experience:	Master's Degree and 3 years applicable experience. The Substitution Policy may be used here.
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Labor Category	Engineer (General) (Executive/Scientist)
Functional Responsibility:	Must have the technical background and skills to perform in all phases of hardware design, development, and documentation. Performs fundamental engineering duties in preliminary designs, performing tests, taking measurements and performing system analyses or simulations. Applies standard practices and techniques in specific engineering assignments. Prepares data and documentation when applicable. Instructs, as required, engineering technicians. May be required to perform duties associated with Logistical, Mechanical, Production and/or Value Engineering.
Minimum Education/ General Experience:	Ph.D. and 3 years applicable experience, or Master's Degree and 6 years applicable experience, or Bachelor's Degree and 8 years applicable experience. No additional Substitution.

Labor Category	Engineer (System) (Entry)
Functional Responsibility:	Interacts with system users to translate their requirements into systems, hardware, and software requirements and design. Participates in the development of test strategies. Solves engineering problems (or managing the solution of engineering problems) in the functional area to which assigned.
Minimum Education/ General Experience:	Bachelor's Degree and 0 years applicable experience, or currently enrolled in Bachelor's Degree program in Engineering as at least a Junior with specific educational track in the specific discipline required. The Substitution Policy may be used here.

Labor Category	Engineer (System) (Intermediate)
Functional Responsibility:	Interacts with system users to translate their requirements into systems, hardware, and software requirements and design. Participates in the development of test strategies. Solves engineering problems (or managing the solution of engineering problems) in the functional area to which assigned.
Minimum Education/ General Experience:	Bachelor's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (System) (Journeyman)
Functional Responsibility:	Interacts with system users to translate their requirements into systems, hardware, and software requirements and design. Participates in the development of test strategies. Solves engineering problems (or managing the solution of engineering problems) in the functional area to which assigned.
Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (System) (Senior/Lead)
Functional Responsibility:	Interacts with system users to translate their requirements into systems, hardware, and software requirements and design. Participates in the development of test strategies. Solves engineering problems (or managing the solution of engineering problems) in the functional area to which assigned.
Minimum Education/General Experience:	Master's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Engineer (System) (Executive/Scientist)
Functional Responsibility:	Interacts with system users to translate their requirements into systems, hardware, and software requirements and design. Participates in the development of test strategies. Solves engineering problems (or managing the solution of engineering problems) in the functional area to which assigned.
Minimum Education/General Experience:	Ph.D. and 3 years applicable experience, or Master's Degree and 6 years applicable experience, or Bachelor's Degree and 8 years applicable experience, No additional Substitution.

Labor Category	Instructor (Entry)
Functional Responsibility:	Material developer for training courses and materials. Experience in conducting training courses. Instructors shall have a professional understanding of the principals of learning and teaching methods, and be able to demonstrate their ability to apply principals and methods.
Minimum Education/General Experience:	High School Diploma and 1 year applicable experience.

Labor Category	Instructor (Intermediate)
Functional Responsibility:	Material developer for training courses and materials. Experience in conducting training courses. Instructors shall have a professional understanding of the principals of learning and teaching methods, and be able to demonstrate their ability to apply principals and methods.
Minimum Education/General Experience:	High School Diploma and 5 years applicable experience.

Labor Category	Instructor (Journeyman)
Functional Responsibility:	Material developer for training courses and materials. Experience in conducting training courses. Instructors shall have a professional understanding of the principals of learning and teaching methods, and be able to demonstrate their ability to apply principals and methods.
Minimum Education/General Experience:	Bachelor's Degree and 0 years applicable experience. The Substitution Policy may be used here.

Labor Category	Instructor (Senior/Lead)
Functional Responsibility:	Material developer for training courses and materials. Experience in conducting training courses. Instructors shall have a professional understanding of the principals of learning and teaching methods, and be

	able to demonstrate their ability to apply principals and methods.
Minimum Education/ General Experience:	Bachelor's Degree and 1 year applicable experience. The Substitution Policy may be used here.

Labor Category	Instructor (Executive/Scientist)
Functional Responsibility:	Material developer for training courses and materials. Experience in conducting training courses. Instructors shall have a professional understanding of the principals of learning and teaching methods, and be able to demonstrate their ability to apply principals and methods.
Minimum Education/ General Experience:	Master's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Program Manager (Journeyman)
Functional Responsibility:	Responsible for the development and ongoing management of one of the organization's programs. Develops the program budget, staffing requirements and ensures the program meets its stated objectives.
Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Program Manager (Senior/Lead)
Functional Responsibility:	Responsible for the development and ongoing management of one of the organization's programs. Develops the program budget, staffing requirements and ensures the program meets its stated objectives.
Minimum Education/ General Experience:	Master's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Program Manager (Executive/Scientist)
Functional Responsibility:	Responsible for the development and ongoing management of one of the organization's programs. Develops the program budget, staffing requirements and ensures the program meets its stated objectives.
Minimum Education/ General Experience:	Master's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Technical Writer (Entry)
Functional Responsibility:	Writes technical reports, brochures, and/or manuals for internal documentation, customer reference or publications. Analyzes technical literature available, writes descriptive copy, and verifies documentation with related departments. May coordinate the production and distribution of material.
Minimum Education/ General Experience:	Associate's Degree and 1 year applicable experience. The Substitution Policy may be used here.

Labor Category	Technical Writer (Intermediate)
Functional Responsibility:	Writes technical reports, brochures, and/or manuals for internal documentation, customer reference or publications. Analyzes technical literature available, writes descriptive copy, and verifies documentation with related departments. May coordinate the production and distribution of material.

Minimum Education/ General Experience:	Bachelor's Degree and 0 years applicable experience. The Substitution Policy may be used here.
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Labor Category	Technical Writer (Journeyman)
Functional Responsibility:	Writes technical reports, brochures, and/or manuals for internal documentation, customer reference or publications. Analyzes technical literature available, writes descriptive copy, and verifies documentation with related departments. May coordinate the production and distribution of material.
Minimum Education/ General Experience:	Bachelor's Degree and 1 year applicable experience. The Substitution Policy may be used here.

Labor Category	Technical Writer (Senior/Lead)
Functional Responsibility:	Supervises technical writers in the production of technical reports, brochures, and/or manuals used for customer reference, documentation or publication. Ensures the availability of technical literature, verifies documentation and coordinates technical writing activities between other departments. May also provide technical writing support for internal publications.
Minimum Education/ General Experience:	Bachelor's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Technical Writer (Executive/Scientist)
Functional Responsibility:	Supervises technical writers in the production of technical reports, brochures, and/or manuals used for customer reference, documentation or publication. Ensures the availability of technical literature, verifies documentation and coordinates technical writing activities between other departments. May also provide technical writing support for internal publications.
Minimum Education/ General Experience:	Bachelor's Degree and 8 years applicable experience. The Substitution Policy may be used here.

Labor Category	Telecommunications Specialist (Entry Level)
Functional Responsibility:	Assists in the telecommunications network analysis, design, implementation and maintenance. Diagnoses faults and effects minor repairs to telecommunication equipment. Installs, runs performance tests; modifies, troubleshoots, and repairs wireless and telecommunications systems.
Minimum Education/ General Experience:	Associate's Degree and 1 year applicable experience. The Substitution Policy may be used here.

Labor Category	Telecommunications Specialist (Intermediate)
Functional Responsibility:	Assists in the telecommunications network analysis, design, implementation and maintenance. Diagnoses faults and effects minor repairs to telecommunication equipment. Installs, runs performance tests; modifies, troubleshoots, and repairs wireless and telecommunications systems.

Minimum Education/ General Experience:	Bachelor's Degree and 0 years of applicable experience. The Substitution Policy may be used here.

Labor Category	Telecommunications Specialist (Journeyman)
Functional Responsibility:	Assists in the telecommunications network analysis, design, implementation and maintenance. Diagnoses faults and effects minor repairs to telecommunication equipment. Installs, runs performance tests; modifies, troubleshoots, and repairs wireless and telecommunications systems.
Minimum Education/ General Experience:	Bachelor's Degree and 1 year applicable experience. The Substitution Policy may be used here.

Labor Category	Telecommunications Specialist (Senior/Lead)
Functional Responsibility:	Supervises the operation and maintenance of voice, data and video communication systems. Provides diagnostics to maintain telecommunications equipment. Troubleshoots problems and contacts appropriate vendors for service. Researches, recommends and implements new technologies to ensure effective telecommunications services. Maintains contacts with vendors of telecommunications equipment and services regarding enhancements to or replacements for existing services and products. Trains users and supports FAX network. Assists in the networking of data, both internally and externally.
Minimum Education/ General Experience:	Bachelor's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Telecommunications Specialist (Executive/Scientist)
Functional Responsibility:	Supervises the operation and maintenance of voice, data and video communication systems. Provides diagnostics to maintain telecommunications equipment. Troubleshoots problems and contacts appropriate vendors for service. Researches, recommends and implements new technologies to ensure effective telecommunications services. Maintains contacts with vendors of telecommunications equipment and services regarding enhancements to or replacements for existing services and products. Trains users and supports FAX network. Assists in the networking of data, both internally and externally.
Minimum Education/ General Experience:	Master's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Biosafety/Biocontainment Specialist Engineer
Functional Responsibility:	Responsible for the biosafety/biocontainment for support to a maximum containment (BSL-4) laboratory and to conduct applied occupational health and safety research engineering. The Biosafety/Biocontainment Specialist Engineer must have intimate knowledge of engineering concepts and operations associated with primary barrier systems; methods of decontamination and sterilization; and experience in microbiology laboratory operations. Responsible for assuring that the safety containment and life support systems in the BSL-4 laboratory are appropriately maintained, exercised and inspected to insure 48 hour readiness status in the event that the facility is needed for response to a

	<p>national emergency. In addition, the Biosafety/Biocontainment Specialist Engineer participates in staffing and supporting the Environmental Microbiology Laboratories.</p> <p>Must have demonstrated experience in the isolation and identification of agents that may pose a risk to the public health and economic well being of the United States. Responsible for the guidance and direction for the conduct of applied research engineering in areas substantially contributing to the field of biosafety/biocontainment. Frequently performs routine and complex laboratory operations associated with the applied research program.</p> <p>Must have excellent communication skills and tact that are essential for conducting research within a maximum containment laboratory. Must be physically capable of performing the functional duties of the position including donning and working in an impervious, positive pressure supplied-air suit commonly used in BSL-4 laboratories. Must meet personnel reliability standards including the FBI personnel risk assessment, NIH Collective Foreign Threats Screening; PATRIOT Act requirements; and Secret Clearance with full adjudication.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 3 years applicable experience. The Substitution Policy may be used here.

Labor Category	Psychological Layered Voice Analysis (LVA)
Functional Responsibility:	<p>The Psychological Layered Voice Analysis (LVA) Engineer will assist applied research teams in the evaluation of the layered voice analysis technology as a tool to measure stress and fatigue and in determining intent to deceive.</p> <p>The Psychological LVA Engineer must be able to assist in protocol development for the evaluation of stress and fatigue and administer psychological evaluations related to measuring stress, fatigue and/or intent to deceive. The Psychological LVA Engineer will collect and evaluate data, prepare abstracts, publications, manuscripts, charts, graphs, summaries of data draft manuscripts, abstracts, and presentations, derived from research protocols, and will participate in research meetings. The Psychological LVA Engineer must be able to use layered voice analysis technology in research protocols to evaluate stress levels during complex hostage/bio-weapons drills and provide investigator with expert psychological advice related to biosecurity and biological surety protocols. The Psychological LVA Engineer will also assist in the review process of hazardous chemicals/agents used in biomedical research and their potential effect on research personnel.</p> <p>Must meet personnel reliability standards including the FBI personnel risk assessment, NIH Collective Foreign Threats Screening; PATRIOT Act requirements; and Secret Clearance with full adjudication.</p>
Minimum Education/ General Experience:	Ph.D. and 5 years applicable experience. No Substitution permitted.

Labor Category Descriptions - SINS 541611, 54264SVC

Labor Category:

Administrative Support Specialist

Functional Responsibilities:

Directly supports Program Manager or Project Manager by maintaining personnel and other files; prepares correspondence, schedules and coordinates travel. Assists in the preparation of presentation graphics and supports the development of contract deliverables and reports by developing and updating graphic presentations to improve the quality and enhance the usability of the documents. Responsible for integrating the graphics generated with automated tools and the deliverable documents.

Minimum Educational and Experience Requirements: High School Diploma and 2 years applicable experience.

Labor Category:

Administrative Support Specialist Senior

Functional Responsibilities:

Responsible for the management and the performance of several Administrative Support personnel and numerous administrative support requirements concurrently. Directly supports Program Manager or Project Manager by maintaining personnel and other files; prepares correspondence, schedules and coordinates travel. Assists in the preparation of presentation graphics and supports the development of contract deliverables and reports by developing and updating graphic presentations to improve the quality and enhance the usability of the documents. Responsible for integrating the graphics generated with automated tools and the deliverable documents.

Minimum Educational and Experience Requirements:

High School Diploma and 4 years applicable experience.

Labor Category:

Applications Developer Journeyman

Functional Responsibilities:

- (a) Designs, develops, enhances, debugs, and implements software. Troubleshoots production problems related to software applications.
- (b) Researches, tests, builds, and coordinates the conversion and/or integration of new products based on client requirements. Designs and develops new software products or major enhancements to existing software.
- (c) Addresses problems of systems integration, compatibility, and multiple platforms.
- (d) Consults with project teams and end users to identify application requirements.
- (e) Performs feasibility analysis on potential future projects to management.
- (f) Assists in the evaluation and recommendation of application software packages, application integration and testing tools.
- (g) Resolves problems with software and responds to suggestions for improvements and enhancements.
- (h) Acts as team leader on projects.
- (i) Instructs, assigns, directs, and checks the work of other software developers on development team.
- (j) Participates in development of software user manuals.

Minimum Education and Experience Requirements:

Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Applications Developer Master

Functional Responsibilities:

- (a) Designs, develops, enhances, debugs, and implements software. Troubleshoots production problems related to software applications.
- (b) Researches, tests, builds, and coordinates the conversion and/or integration of new products based on client requirements. Designs and develops new software products or major enhancements to existing software.
- (c) Addresses problems of systems integration, compatibility, and multiple platforms.
- (d) Consults with project teams and end users to identify application requirements.
- (e) Performs feasibility analysis on potential future projects to management.
- (f) Assists in the evaluation and recommendation of application software packages, application integration and testing tools.
- (g) Resolves problems with software and responds to suggestions for improvements and enhancements.
- (h) Acts as team leader on projects.
- (i) Instructs, assigns, directs, and checks the work of other software developers on development team.
- (j) Participates in development of software user manuals.

Minimum Education and Experience Requirements:

Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Applications Systems Analyst Journeyman

Functional Responsibilities:

- (a) Formulates/defines system scope and objectives.
- (b) Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results.
- (c) Prepares detailed specifications for programs. Assists in the design, development, testing, implementation, and documentation of new software and enhancements of existing applications.
- (d) Works with project managers, developers, and end users to ensure application designs meet business requirements.
- (e) Formulates/defines specifications for complex operating software programming applications or modifies/maintains complex existing applications using engineering releases and utilities from the manufacturer.
- (f) Designs, codes, tests, debugs, and documents those programs.
- (g) Provides overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting, and advanced mathematical/scientific software packages.
- (h) Assists all phases of software systems programming applications.
- (i) Evaluates new and existing software products.

Minimum Education and Experience Requirements: Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category
Applications Systems Analyst Senior

Functional Responsibilities:

- (a) Formulates/defines system scope and objectives.
- (b) Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results.
- (c) Prepares detailed specifications for programs. Assists in the design, development, testing, implementation, and documentation of new software and enhancements of existing applications.
- (d) Works with project managers, developers, and end users to ensure application designs meet

business requirements.

(e) Formulates/defines specifications for complex operating software programming applications or modifies/maintains complex existing applications using engineering releases and utilities from the manufacturer.

(f) Designs, codes, tests, debugs, and documents those programs.

(g) Provides overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting, and advanced mathematical/scientific software packages.

(h) Assists all phases of software systems programming applications.

(i) Evaluates new and existing software products.

Minimum Education and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Computer Scientist

Functional Responsibilities:

(a) Acts as a senior consultant in complex or mission critical client requirements.

(b) Develops, modifies, and applies computer modeling and programming applications to analyze and solve mathematical and scientific problems affecting system and program performance.

(c) Participates in all phases of scientific and engineering projects such as research, design, development, testing, modeling, simulating, training, and documentation.

Minimum Education and Experience Requirements:

Bachelor's Degree and 6 yrs applicable experience. The Substitution Policy may be used here.

Labor Category:

Senior Consultant

Functional Responsibilities:

(a) Provides technical and administrative direction for personnel performing network development tasks, including the review of work products for correctness, adherence to the design concept and to user standards.

(b) Possess experience sufficient scope and depth to be able to independently assimilate and gather data pertinent to network systems, organize and present data orally and in writing in a thoroughly comprehensible and logical manner.

(c) Must have proven experience in the specified subject matter field or discipline and have excellent analytical, oral, and written communications skills. These skills include, but are not limited to, the following specialties: telecommunications, wide area networks, local area networks, information systems, and systems architecture. Languages (particularly e.g. C and Ada), Operating Systems (e.g. MS DOS, UNIX, POSIX, VM, DOS-VSE, Windows NT, and MVS), Database Management Systems, Automation Security Systems, Decision Support Systems, Artificial Intelligence Systems, Communications Protocols, Electronic Mail, Video Teleconferencing. Effectively integrate workforce and information technology, including cultural change management.

Minimum Education and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Database Administrator

Functional Responsibilities:

Responsible for all activities related to the administration of computerized databases. Assign personnel to various projects and direct their activities; review and evaluate their work and prepare performance reports. Confer with and advise subordinates on administrative policies and procedures, technical problems, priorities and methods. Consult with and advise users of the various databases.

Project long-range requirements for database administration and design in conjunction with other managers in the information systems function. Prepare activity and progress reports regarding the database management section. Ability to lead and direct efforts of staff, excellent problem-solving skills, ability to communicate effectively.

Minimum Educational and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Database Specialist Senior

Functional Responsibilities:

- (a) Provides all activities related to the administration of computerized databases.
- (b) Projects long-range requirements for database administration and design in conjunction with other managers in the information systems function.
- (c) Designs, creates, and maintains databases in a client/server environment.
- (d) Conducts quality control and auditing of databases in a client/server environment to ensure accurate and appropriate use of data.
- (e) Advises users on access to various client/server databases.
- (f) Designs, implements, and maintains complex databases with respect to JCL, access methods, access time, device allocation, validation checks, organization, protection and security, documentation, and statistical methods.
- (g) Applies knowledge and experience with database technologies, development methodologies, and front-end (e.g., COGNOS)/back-end programming languages (e.g., SQL). Performs database programming and supports systems design.
- (h) Includes maintenance of database dictionaries, overall monitoring of standards and procedures, file design and storage, and integration of systems through database design.

Minimum Education and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Engineer

Functional Responsibilities:

- (a) Provides technical solutions for routine and complex engineering studies, problems and tasks.
- (b) Performs evaluation of alternatives and assessment of risks and costs. Plan project coordination, management and engineering.
- (c) Develops analytical and conceptual techniques and methodology for problem solutions.
- (d) Performs enterprise-wide strategic systems planning, business information planning, business and analysis.
- (e) Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools, such as Integrated Computer-Aided Software Engineering (I-CASE) tools.
- (f) Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents.
- (f) Has experience with such methodologies as IDEF O process modeling and IDEF IX data modeling. Provides technical guidance in software engineering techniques and automated support tools.
- (g) Specialized experience in one of the following:
communications software, communications hardware or network specialty. General experience includes all aspects of communication networks.
- (f) Must demonstrate the ability to work independently or under only general direction.

Minimum Education and Experience Requirements:

Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Hardware Engineer Senior

Functional Responsibilities:

- (a) Provides analysis related to the design, development, and implementation of hardware for products.
- (b) Develops test strategies, devices, and systems.
- (c) Performs stress and performance tests on a variety of computer hardware including circuit boards, processors and wiring.

Minimum Education and Experience Requirements: Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Information Assurance/Security Specialist Journeyman

Functional Responsibilities:

- (a) Determines enterprise information assurance and security standards.
- (b) Develops and implements information assurance/security standards and procedures.
- (c) Coordinates, develops, and evaluates security programs for an organization. Recommends information assurance/security solutions to support customers' requirements.
- (d) Identifies, reports, and resolves security violations.
- (e) Establishes and satisfies information assurance and security requirements based upon the analysis of user, policy, regulatory, and resource demands.
- (f) Supports customers at the highest levels in the development and implementation of doctrine and policies.
- (g) Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.
- (h) Performs analysis, design, and development of security features for system architectures.
- (i) Analyzes and defines security requirements for computer systems which may include mainframes, workstations, and personal computers.
- (j) Designs, develops, engineers, and implements solutions that meet security requirements.
- (k) Provides integration and implementation of the computer system security solution.
- (l) Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems.
- (m) Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.
- (n) Ensures that all information systems are functional and secure.

Minimum Education and Experience Requirements:
Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Information Assurance/Security Specialist Master

Functional Responsibilities:

- (a) Determines enterprise information assurance and security standards.
- (b) Develops and implements information assurance/security standards and procedures.
- (c) Coordinates, develops, and evaluates security programs for an organization. Recommends information assurance/security solutions to support customers' requirements.
- (d) Identifies, reports, and resolves security violations.
- (e) Establishes and satisfies information assurance and security requirements based upon the analysis of user, policy, regulatory, and resource demands.
- (f) Supports customers at the highest levels in the development and implementation of doctrine and policies.
- (g) Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.
- (h) Performs analysis, design, and development of security features for system architectures.
- (i) Analyzes and defines security requirements for computer systems which may include mainframes, workstations, and personal computers.

- (j) Designs, develops, engineers, and implements solutions that meet security requirements.
- (k) Provides integration and implementation of the computer system security solution.
- (l) Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems.
- (m) Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.
- (n) Ensures that all information systems are functional and secure.

Minimum Education and Experience Requirements:
Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Information Specialist Knowledge Engineer

Functional Responsibilities:
(a) Develops information retrieval solutions to support client requirements for specified domain subjects, using information retrieval software languages and automated text analysis and extraction techniques

Minimum Education and Experience Requirements: Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Principal Budget Analyst

Functional Responsibilities:
Works in concert to systematically integrate business, cost estimating and financial management processes to ensure the efficient stewardship of public funds. Responsible for formulation of strategic financial plans, preparing cost estimates and correlation of financial requirements into executable budgets. Responsible for assessment of products and or procedures for compliance with government standards, accounting principles, internal controls, and multi-tiered system application standards. Manages completion of work within the time frame specified by the government, ensuring that all financial requirements are met. Prepares milestone status reports and presentations for colleagues, subordinates, and end user representatives.

Minimum Educational and Experience Requirement: Ph.D. and 8 years applicable experience, or Master's Degree and 10 years applicable experience, or Bachelor's Degree and 12 years applicable experience. No additional Substitution.

Labor Category:
Principal Computer Scientist

Functional Responsibilities:
Must have detailed knowledge of modern software development processes, to include object-oriented development and use of tools, and how to apply them to software application program development. Must be capable of providing detailed technical support for software development programs with minimal management supervision. Must be capable of translating operational requirements into detailed software/system requirements. Must be capable of integrating COTS products into software/system architectures. Must be able to rapidly understand the use of tools and technologies and integrate them into existing products and processes. Must have knowledge of distributed systems, and issues regarding database replication and distribution for distributed systems. Must be capable of providing technical direction to design and development teams, and monitoring progress and productivity through the use of metrics. Additionally, must have a general understanding of communications protocols, and be able to quickly understand the Joint Technical Architecture guidelines. Must have excellent interpersonal skills, to include the ability to work on multi-functional teams, as well as proven verbal and written communications skills.

Minimum Educational and Experience Requirements:
Ph.D. and 8 years applicable experience, or Master's Degree and 10 years applicable experience, or Bachelor's Degree and 12 years applicable experience. No additional Substitution.

Labor Category:
Principal Functional Area Expert

Functional Responsibilities:

Recognized for strong expertise in industry issues and trends. Utilizes functional area expertise gained through direct industry experience to assess the operational and functional baseline of an organization and its organizational components. Works with senior managers and executives to provide industry vision and strategic direction with regard to their enterprise. Guides the determination of information technology inadequacies and/or deficiencies that affect the functional area's ability to support/meet organizational goals. Generates functional area strategies for enhanced IT operations in a cross-functional area mode throughout the organization. Participates in account strategy sessions, strategic assessments and design reviews to validate enterprise approach and associated work products.

Provides guidance and direction to other professionals, acts in a consulting and/or advisory capacity; coordinates resolution of highly complex problems and tasks, possesses ability to meet and operate under deadlines.

Minimum Educational and Experience Requirements:

Ph.D. and 8 years applicable experience, or Master's Degree and 10 years applicable experience, or Bachelor's Degree and 12 years applicable experience. No additional Substitution.

Labor Category:
Program Manager

Functional Responsibilities:

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. Specialized experience includes: complete engineering project development from inception to deployment, demonstrated ability to provide guidance and direction in the tasks similar to the representative scenarios provided in the RFP, proven expertise in the management and control of funds and resources, demonstrated capability in managing multi-task contracts of this type and complexity. General experience includes increasing responsibilities in information systems design and management.

Minimum Educational and Experience Requirements:

Ph.D. and 8 years applicable experience, or Master's Degree and 10 years applicable experience, or Bachelor's Degree and 12 years applicable experience. No additional Substitution.

Labor Category:
Project Manager

Functional Responsibilities:

Serves as the project manager for a large, complex task order (or a group of task orders affecting the same common/standard/migration system) and shall assist the Program Manager in working with the Government Contracting Officer (CO), the contract-level Contracting Officer's Representative (COR), the task order-level COR(s), government management personnel and customer agency representatives. Under the guidance of the Program Manager, responsible for the overall management of the specific task order(s) and insuring that the technical solutions and schedules in the task order are implemented in a timely manner. Performs enterprise wide horizontal integration planning and interfaces to other functional systems. Specialized experience includes: complete engineering project development from inception to deployment, demonstrated ability to provide guidance and direction in the tasks similar to the representative scenarios provided in the RFP, proven expertise in the management and control of funds and resources, demonstrated capability in managing multi-task contracts of this type and complexity. General experience includes increasing responsibilities in information systems design and management.

Minimum Educational and Experience Requirements:

Ph.D. and 8 years applicable experience, or Master's Degree and 10 years applicable experience, or Bachelor's Degree and 12 years applicable experience. No additional Substitution.

Labor Category:
Quality Assurance Specialist Master

Functional Responsibilities:

- (a) Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract.
- (b) Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process.
- (c) May be responsible for all activities involving quality assurance and compliance with applicable regulatory requirements.
- (d) Conducts audits and reviews/analyzes data and documentation.
- (e) Develops and implements procedures and test plans for assuring quality in a system development environment which supports large databases and applications.

Minimum Education and Experience Requirements:

Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Senior Application Systems Analyst/Programmer

Functional Responsibilities:

Formulates and defines system scope and objectives. Prepares detailed specifications for programs. Designs, codes, tests, debug and documents programs. Works at the highest technical level of all phases of applications, systems analysis and programming activities. Provides guidance and training to less experienced analysts/programmers. Substantial knowledge useful in managing large, complex AIS projects, is closely related to the work to be automated, and/or in a computer science, information system, a physical science, engineering or a mathematics - intensive discipline, or an applicable training certificate from an accredited training institution.

Minimum Educational and Experience Requirements:

Master's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Senior Budget Analyst

Functional Responsibilities:

Provides support to technical analyses. Provides cost estimating, life-cycle costing, and cost benefit analyses in support of acquisition programs and other analyses. Supports the development and analysis of logistics support and information technology alternatives. Assists in the development of capital plans for major acquisitions. Support business process reengineering studies through the development of baseline cost models and "to be" cost models. Performs "should-cost" analysis and trade studies related to cost trade-off options for major systems development or procurement. Prepares acquisition milestone program documentation to support milestone decisions. Prepares budget submissions in support of major acquisition programs. Monitors program funding and expenditures. Performs day-to-day management of assigned task order projects in the acquisition area. Organizes, directs, and supervises other project personnel in the execution of task order activities.

Minimum Educational and Experience Requirements:

Master's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Senior Systems Engineer

Functional Responsibilities:

Plan project coordination, management and engineering. Provides comprehensive definition of all aspects of system development from analysis of mission needs to verification of system performance. Performs evaluation of alternatives and assessment of risks and costs. Applies an

enterprise-wide set of disciplines for the planning, analysis, design and construction of information systems on an enterprise-wide basis or across a major sector of the enterprise. Develops analytical and conceptual techniques and methodology for problem solutions. Performs enterprise-wide strategic systems planning, business information planning, business and analysis. Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools, such as Integrated Computer-Aided Software Engineering (I-CASE) tools. Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents. Has experience with such methodologies as IDEF O process modeling and IDEF IX data modeling. Provides technical guidance in software engineering techniques and automated support tools.

Minimum Educational and Experience Requirements:

Master's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Subject Matter Expert Master

Functional Responsibilities:

- (a) Serves as subject matter expert, possessing in-depth knowledge of a particular area, such as business, computer science, engineering, mathematics, or the various sciences.
- (b) Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation.
- (c) Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.
- (d) Applies principles, methods and knowledge of the functional area of capability to specific task order requirements, advanced mathematical principles and methods to exceptionally difficult and narrowly defined technical problems in engineering and other scientific applications to arrive at automated solutions.

Minimum Education and Experience Requirements:

Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Subject Matter Expert Senior

Functional Responsibilities:

- (a) Serves as subject matter expert, possessing in-depth knowledge of a particular area, such as business, computer science, engineering, mathematics, or the various sciences.
- (b) Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation.
- (c) Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases.
- (d) Applies principles, methods and knowledge of the functional area of capability to specific task order requirements, advanced mathematical principles and methods to exceptionally difficult and narrowly defined technical problems in engineering and other scientific applications to arrive at automated solutions.

Minimum Education and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Technical Trainer

Functional Responsibilities:

- (a) Responsibilities include, but are not limited to, developing and conducting courses with prepared or developed instructional materials to educate technical and non-technical personnel as well as gathering and assimilating information on subject matter; organizing and condensing material and preparing course outlines, handouts and visual aids.

- (b) Organizes, prepares and conducts complex training and educational programs for information systems or user personnel.
- (c) Designs and develops training programs. Records training activities and program effectiveness.

Minimum Education and Experience Requirements:

Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Technical Writer, Executive/Scientist

Functional Responsibilities:

Supervises in the collection and organization of information required for preparation of user's manuals, training materials, installation guides, proposals, and reports. Supervises and assists in editing functional descriptions, system specifications, and user's manuals. Prepares special reports or any other customer deliverables and documents. Manages completion of work within the time frame specified by the government, ensuring that all technical requirements are met. Prepares milestone status reports and presentations for colleagues, subordinates, and end user representatives. Specialized experience includes demonstrated expertise in editing technical documents.

Minimum Educational and Experience Requirements:

Ph.D. and 8 years applicable experience, or Master's Degree and 10 years applicable experience, or Bachelor's Degree and 12 years applicable experience. No additional Substitution.

Labor Category:

Training Specialist Journeyman

Functional Responsibilities:

- (a) Assesses, designs, and conceptualizes training scenarios, approaches, objectives, plans, tools, aids, curriculums, and other state of the art technologies related to training and behavioral studies.
- (b) Identifies the best approach training requirements to include, but not limited to hardware, software, simulations, course assessment and refreshment, assessment centers, oral examinations, interviews, computer assisted and adaptive testing, behavior-based assessment and performance, and team and unit assessment and measurement.
- (c) Develops and revises training courses. Prepares training catalogs and course materials.
- (d) Trains personnel by conducting formal classroom courses, workshops, and seminars.

Minimum Education and Experience Requirements:

Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category:

Virtual Reality Modeler

Functional Responsibilities:

Prepares drawings of unique, complex or original designs that require a high degree of precision; performs unusually difficult assignments requiring considerable initiative, resourcefulness, and modeling expertise. Assures that anticipated problems in simulation, training development, and operation are resolved by the drawing produced. Exercises independent judgment in selecting and interpreting data based on knowledge of the systems intent. Ability to translate photographic and printed materials into full 3-D models. Position requires modeling of military and civilian hardware and environments using 3D CAD/CAE packages and/or modeling packages. Will develop decimated variants of high fidelity models that are reconfigurable to various levels of detail, resolution and materials to support various analysis applications and visual simulations. Will develop high quality texture maps from photographs of the actual hardware and their operating environments and map to low fidelity model variants.

Minimum Educational and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Virtual Reality Modeler Senior

Functional Responsibilities:

Prepares drawings of unique, complex or original designs that require a high degree of precision; performs unusually difficult assignments requiring considerable initiative, resourcefulness, and modeling expertise. Assures that anticipated problems in simulation, training development, and operation are resolved by the drawing produced. Exercises independent judgment in selecting and interpreting data based on knowledge of the systems intent. Ability to translate photographic and printed materials into full 3-D models. Position requires modeling of military and civilian hardware and environments using 3D CAD/CAE packages and/or modeling packages. Will develop decimated variants of high fidelity models that are reconfigurable to various levels of detail, resolution and materials to support various analysis applications and visual simulations. Will develop high quality texture maps from photographs of the actual hardware and their operating environments and map to low fidelity model variants. Shall provide all necessary guidance to lower-level modelers for resolution of all problems.

Minimum Educational and Experience Requirements:

Master's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Voice/Data Engineer Journeyman

Functional Responsibilities:

(a) Provides technical direction and engineering knowledge for communications activities including planning, designing, developing, testing, installing and maintaining large communications networks.

Minimum Education and Experience Requirements:

Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Voice/Data Engineer Senior

Functional Responsibilities:

(a) Provides technical direction and engineering knowledge for communications activities including planning, designing, developing, testing, installing and maintaining large communications networks.

Minimum Education and Experience Requirements:

Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category:
Word Processor/Graphics

Functional Responsibilities:

Ability to create professional-quality reports and associated materials, the operation and manipulation of standard office automation products and proofreading text and graphics to isolate and correct all forms of errors.

Minimum Educational and Experience Requirements:

High School Diploma and demonstrated proficiency in the full range of office automation systems.

Training Course Descriptions - SIN 611430

ITTC-001 (1)	CISCO ACADEMY Scope This course is phase 1 of a two phase course. It covers Semester one and two of the Cisco Academy curriculum. Students will learn to install and configure Cisco switches and routers in multiprotocol networks using local and wide-area networks (LANs and WANs), provide Level 1 troubleshooting service, and improve network performance and security. Upon successful completion of this course, students will receive an official Cisco Networking Academy Certificate of Completion. This curriculum also prepares students for the Cisco CCNA and the CompTIA Network+ certification exams. <hr/> Prerequisites Basic computer skills and a basic understanding of networking.
ITTC-001 (2)	CISCO ACADEMY Scope This course is phase 2 of a two phase course. It covers Semester three and four of the Cisco Academy curriculum. Students will learn to install and configure Cisco switches and routers in multiprotocol networks using local and wide-area networks (LANs and WANs), provide Level 1 troubleshooting service, and improve network performance and security. Upon successful completion of this course, students will receive an official Cisco Networking Academy Certificate of Completion. This curriculum also prepares students for the Cisco CCNA and the CompTIA Network+ certification exams. <hr/> Prerequisites Basic computer skills and a basic understanding of networking. Completion of Phase 1 is required.
ITTC-002	VOICE OVER IP - VOIP Scope Voice over IP (VoIP) defines a way to carry voice calls over an IP network including the digitization and packetization of the voice streams. IP Telephony utilizes the VoIP standards to create a telephony system where higher level features such as advanced call routing, voice mail, contact centers, etc., can be utilized. This course will cover the protocols and procedures necessary to build and maintain a VoIP network in the enterprise. The course will cover Cisco's implementation of VoIP and use both soft and hard phones. <hr/> Prerequisites ITTC-001 Phase 1 and 2, or ITTC-017 and ITTC-058.
ITTC-005	WEBMASTER I Scope The goal of this course is to provide students with the basic knowledge and skills necessary to develop and publish web pages in a National Guard environment. Students will learn the correct policies and procedures for maintaining a military web site. Students will also learn the basics of web development (HTML, JavaScript, CSS, ASP, XML, RSS) and will discuss other programs that are used to create web pages including the use of SharePoint. The following publication will be used in delivery of course ITTC-005: ISBN 0-07-250916-3

Note: The publications listed above (or extracts thereof) will be provided by the training center for the duration of the associated course, and will remain the property of the training center at the conclusion of the course. In an effort to keep the curriculum current with the evolving technology, these references may be revised.

Prerequisites

Students should have a basic understanding of computers and understand the creating of files, file permissions, and knowledge of filenames and paths.

ITTC-006 (1) SOFTWARE ENGINEER 1**Scope**

This course provides students with the knowledge and skills required write web-based applications in the NG environment. At the end of Phase I of the course, students will be able to establish the software engineer principles in the NG Environment, employ NG Project Management Techniques, provide the fundamentals of the .NET Environment, establish the C# Language Fundamentals, Develop objects in C#, implement object-oriented programming techniques in C# in the NG environment. Students receive a student workbook and lab manual.

Prerequisites

Due to the fast pace and advanced subject matter of this Skill Level 4 course, there are several pre-requisites for this course.

Students who wish to attend Software Engineer I must first take and pass the following courses:

- ITTC-005: Webmaster I
- ITTC-054: IIS 6 -OR- ITTC-010: Webmaster II
- ITTC-066: SQL I
- SkillPort Course 78978_ENG - Getting Started with Programming *
- SkillPort Course 78995_ENG - Designing Programs *
- Online JavaScript Course **

Equivalent experience can be substituted for prerequisites with PRIOR approval from the Course Manager. (Use contact form below.)

As this course is a two-phase course, successful completion of Phase I is required to attend Phase II. A final exam is given to assess student learning. If the exam is not successfully passed, the phase will need to re-attend in order to receive successful completion.

* SkillPort courses must be accessed online at <https://usarmy.skillport.com>. If you have never registered for a SkillPort course, you will need to register at <http://www.atrrs.army.mil/channels/elearning/SmartForce>.

** The Online JavaScript Course can be found at <http://www.w3schools.com/js/default.asp>. Students must complete the "Basic" and "Objects" sections.

Target Audience

DOIM/DPI entry to mid-level Programmer/Analysts or Web Developers.

ITTC-006 (2) SOFTWARE ENGINEER 1**Scope**

This course provides students with the knowledge and skills required write web-based applications in the NG environment. At the end of Phase I of the course, students will be able to establish the software engineer principles in the NG Environment, employ NG Project Management Techniques, provide the fundamentals of the .NET Environment, establish the C# Language Fundamentals, Develop objects in C#, implement object-oriented programming techniques in C# in the NG environment. Students receive a student workbook and lab manual.

Prerequisites

This course is a two-phase course. Successful completion of Phase I is required to attend Phase II. A final exam is given to assess student learning. If the exam is not successfully passed, the phase will need to be re-attended in order to receive successful completion.

Target Audience

DOIM/DPI Entry- to mid-level Programmer/Analysts or Web Developers.

ITTC-007 MICROSOFT SYSTEM ADMINISTRATOR I**Scope**

Provides students with skills and knowledge necessary to design, manage, and implement group policy in a military domain environment and implementing Software Update Services (SUS). Upon successful completion of this course students will have an effective working knowledge of: designing, managing and implementing group policy for sites, domains, and organizational units; installation, maintenance, and updates of Software Update Services.

Prerequisites

Completion of course ITTC-070 or equivalent experience for Windows 2000/2003.

ITTC-008 NETWORK ENGINEER I**Scope**

This course is part one of a two-part course. Part two is titled ITTC-009 Network Engineer II. A final exam is given to assess student learning. If the exam is not successfully passed, the phase will need to be re-attended in order to receive successful completion.

This course provides students with the knowledge and skills required to properly implement, troubleshoot and maintain both local area networks (LAN) and wide area networks (WAN). Some of the topics covered include:

- Analyze the Design of State LAN/WAN Guardnet Infrastructure
- Review Media Technologies in the State Infrastructure
- Evaluate Network Protocols used in State Infrastructure
- Evaluate Hardware and Software Capabilities
- Organize and Execute a Pre-Production Test
- Assign/Modify Router and Switch Configurations
- Apply/Implement Encryption
- Examine Firewall Technologies

Prerequisites

Completion of ITTC-070, Network Administrator I; ITTC-017, LAN/WAN Manager I; and ITTC-058, LAN/WAN Manager II or equivalent training.

ITTC-009 NETWORK ENGINEER II**Scope**

This course is part two of a two-part course. Part one is titled ITTC-009 Network Engineer I. A final exam is given to assess student learning. If the exam is not successfully passed, the phase will need to be re-attended in order to receive successful completion.

This course provides students with the knowledge and skills required to properly implement, troubleshoot and maintain both local area networks (LAN) and wide area networks (WAN). Some of the topics covered include:

- Analyze current network infrastructure
- Monitor network performance
- Formulate troubleshooting methodologies
- Update current network technologies

- QoS concepts
- Scripting tools
- Principles of security
- Implement RADIUS and TACACS+ in the state network
- Secure network devices using software tools
- Employ security methods

Prerequisites

Completion of ITTC-070, Network Administrator I; ITTC-017, LAN/WAN Manager I; and ITTC-058, LAN/WAN Manager II or equivalent training. Successful completion of phase I, ITTC-008 Network Engineer I is required before attendance.

ITTC-010 WEBMASTER II

Scope

The course will highlight the key features of IIS 6.0 and SharePoint 2.0. At the end of the course, students will be able to configure WWW, FTP and SMTP services on IIS, determine and implement IIS security and encryption features, create virtual directories and servers, add Active Server Pages functionality to a Web site, and understand the integration of Active Directory with IIS. This course also provides students with the knowledge and skills to deploy and manage a Microsoft Windows SharePoint Services infrastructure. The student will learn skills that enable them to deploy and manage a Windows SharePoint Services infrastructure as well as guide end users in their use of the product.

Prerequisites

Webmaster I (ITTC-005)

*WARRANT OFFICERS who intend to use this course to meet the SharePoint requirement of WOBC must also take Webmaster I, unless a waiver has been granted by the instructor.

Waivers for prerequisites must be obtained from the instructor or course manager *PRIOR* to attendance. Waivers will be granted only with proof of either formal training or experience in the subject matter.

Target Audience

Webmasters, Web Designers and Software Engineers

ITTC-016 MICROSOFT SYSTEM ADMINISTRATOR II

Scope

This course is part two of a two part course. Part one is titled ITTC-007, System Administrator I.

The course will cover the following subjects:

- DHCP
- WINS
- Certificate Authority
- IPSec
- Shadow Copies
- Encrypted File System
- Distributed File System
- Windows Server Update Services
- Administrative Scripting

Prerequisites

Completion of course ITTC-070 or equivalent experience for Windows Server 2003. Successful completion of part one, ITTC-007 System Administrator I.

Target Audience

ITTC-017 LAN/WAN MANAGER I

Scope

This introduction to Cisco Router course provides students with the concepts, commands, and fundamentals to manage both single and multiple router environments. Emphasis is placed on familiarization with Cisco hardware, terminology, and procedures. Class labs demonstrate how to manage a single router via console interface and through simulation software. Students will learn to install and administer a simple LAN using both static and dynamic routing tables. They will learn to apply Cisco IOS commands to build and maintain routing environments. The concept of access-lists will be introduced to reinforce the student's ability to tailor the networks data flow. Troubleshooting tasks will be demonstrated in relation to TCP/IP fundamentals and OSI model hierarchy.

The following publications will be used in delivery of course ITTC-017: ISBN:# 0-7821-4167-6.

NOTE: The publications listed above (or extracts thereof) will be provided by the training center for the duration of the associated course, and will remain the property of the training center at the conclusion of the course. In an effort to keep the curriculum current with the evolving technology, these references may be revised.

Prerequisites

Knowledge of TCP/IP and Network design helpful. Or completion of ITTC-070, ITTC-007 and ITTC-016.

Target Audience

DOIM/DPI personnel or anyone functioning in a position requiring skills in network design and maintenance.

ITTC-018 IMPLEMENT & SUPPORT MICROSOFT EXCHANGE

Scope

This course provides students with the knowledge and skills that are needed to update, migrate, and support a reliable, secure infrastructure for creating, storing, and sharing information using Microsoft Exchange Server 2003 messaging environment. It provides a significant amount of hands-on- practice, discussions, and assessments that allow students to become proficient in the skills necessary.

During this course, the student will perform a clean installation of Exchange Server 2003, configure and manage Exchange Server 2003, manage interoperability, secure Exchange Server 2003, manage recipients, public folders, address lists, implement and manage client access with internet protocols, manage client configuration and connectivity, routing and mobile devices, manage data storage and hardware resources, plan for disaster and disaster recovery, backup and restore Exchange, perform preventive maintenance, and migrate users from Exchange Server 5.5 to a separate Exchange Server 2003 organization using tools provided by Microsoft and NGB.

The following publications will be used in delivery of course ITTC-018: ISBN# 0-7356-1978-6

Note: The publications listed above will be provided by the training center for the duration of the associated course, and will remain the property of the training center at the conclusion of the course.

Prerequisites

Completion of ITTC-070, ITTC-007, ITTC-008, and ITTC-016.

The following Microsoft Windows tasks should be very familiar to the students:

Working knowledge of Windows Server 2003
Working knowledge of networking, including TCP/IP, DNS, and IIS
Working knowledge of internet protocols: POP3, IMAP4, SMTP, HTTP, NNTP

Knowledge of Microsoft Exchange Server 5.5 or Exchange 200 Server is beneficial.
Knowledge of Active Directory design helpful.

ITTC-040 (1) ORACLE DBA I PHASE I

Scope

Course scope: This in-depth course covers the day-to-day duties of a database administrator and how to accomplish them. Covered topics include Process Environment, Database Basics, Overview of Oracle SQL, Architecture and Administration, RDMBS Concepts, Disaster Recovery, Managing an Oracle Instance, Data Dictionary Views, and installation using ORACLE 8i. and 9i on the Unix platform. This is Phase 1 of a two-phase course.

The following publication will be used in delivery of course ITTC-040: ISBN # 0-07-219374-3 Oracle9i DBA Handbook.

Note: The publications listed above will be provided by the training center for the duration of the associated course, and will remain the property of the training center at the conclusion of the course.

Prerequisites

ITTC-066, Oracle SQL I, Basic Unix Commands, Network Terminology (Networking Essentials recommended), ITTC-043, HP-UX System Administration I, vi Text Editor.

Target Audience

Ideal for DPI Oracle database administrator as well as the Oracle application developer moving to a DBA role, System administrators who will be supporting large ORACLE databases, application developers who will be developing database applications using Oracle 9i and DOIM database administrators.

ITTC-040 (2) ORACLE DBA I PHASE II

Scope

This in-depth course covers the day-to-day duties of a database administrator and how to accomplish them. This is a continuation of ITTC-040a. Covered topics include Managing Tablespaces and Data Files, Storage Structures and Relationships, Managing Rollback Segments, Tables, Password Security, Resources, and users, Resource Contention, Diskspace Monitoring, Application Monitoring/Debugging, Unix Web servers, and Troubleshooting using ORACLE9i on the Unix platform. This is Phase 2 of a two-phase course.

The following publication will be used in delivery of course ITTC-040: ISBN # 0-07-219374-3 Oracle9i DBA Handbook.

Note: The publications listed above will be provided by the training center for the duration of the associated course, and will remain the property of the training center at the conclusion of the course.

Prerequisites

Course prerequisite: ITTC-040a Oracle DBA I Phase 1. ITTC-066, Oracle SQL I, Basic Unix Commands, Network Terminology (Networking Essentials recommended), ITTC-043, HP-UX System Administration I, vi Text Editor.

Target Audience

Ideal for DPI Oracle database administrator as well as the Oracle application developer moving to a DBA role, DOIM database administrator, System administrators who will be supporting large ORACLE databases, and application developers who will be developing database applications using Oracle9i.

ITTC-043	HP UNIX SYSTEM ADMIN I Scope Students will learn the responsibilities of a System Administrator, Implementing HP-UX with Basic Unix Commands, a complete examination of the System Administration Manager (SAM), creating, managing, and customizing user accounts, the HP-UX File Hierarchy and file system concepts, creation, management, and repair of file systems, cron, managing shutdown and reboot, network connection, disaster recovery methods, DNS Concepts, and overall troubleshooting. This course will be using HP-UX 11.0, with references to HP-UX 11i. Students receive a student workbook and lab manual.
	<hr/> Prerequisites Unix Fundamentals, Basic Networking, familiarization with vi Text Editor
	<hr/> Target Audience System Administrators, DBAs, Operators, and Programmers.
ITTC-044	HP UNIX SYSTEM ADMIN II Scope This course prepares system administrators for successful configuration and maintenance of HP-UX based systems in a networked environment. Emphasis is on installation of HP-UX 11.x, shell programming, installation and configuration of peripherals, starting network services, kernel parameter configuration, logical volume manager and disk management, DNS concepts, internet services, security administration, NFS Concepts and configuration, and COOP plans. An actual installation of HP-UX 11.x is included. A final test will be given covering topics in both ITTC-043 and ITTC-044. Students receive a student workbook and lab manual.
	<hr/> Prerequisites Completion of HP-UX System Administration I (ITTC-043), basic Unix commands, vi text editor, basic shell programming, and basic networking.
	<hr/> Target Audience System administrators, DBAs, Operators, and Programmers.
ITTC-045	HP EVA SAN ADMINISTRATION Scope This course provides students with the knowledge and skills required to manage and maintain the HP EVA 6000 SAN. At the end of this course, students will be able to describe the architecture of the HP StorageWorks environment, Common Information Model for hosts, switches, and storage, the StorageWorks database architecture, use HP StorageWorks software, configure and zone brocade switches, understand the HP XP Array Storage environment, configure and monitor the Management Server and Oracle databases, use role-based security, understand license options, component objectives, operating features, understand the physical architecture of the EVA 6000 and troubleshoot issues.
	<hr/> Prerequisites Completion of ITTC-070, Network Administration I and completion of ITTC-043, HP-UX SA I or equivalent experience with the Windows 2003 Server Environment.
	<hr/> Target Audience DOIM/DPI personnel responsible for the administration and maintenance of the HP EVA 6000 SAN.
ITTC-054	INTERNET INFORMATION SERVER (IIS) 6.0 Scope The course will highlight the key features of IIS. At the end of the course, students will be able to determine which Internet Information Server components are required to create a specific intranet or Internet site, install IIS 6.0, manage and configure IIS using

the Internet Service Manager snap-in for the Microsoft Management Console. Students will configure WWW, FTP and SMTP services on IIS, determine and implement IIS security and encryption features, create virtual directories and servers, add Active Server Pages functionality to a Web site, and understand the integration of Active Directory with IIS.

Prerequisites

Completion of ITTC-008 and ITTC-070.

The instructor may waive prerequisites in lieu of applicable experience. This will be coordinated on a case-by-case basis prior to the course.

In order to obtain a waiver for the listed prerequisites the student needs to be able to show a firm understanding of Windows Server 2003, NTFS permissions and Active Directory structure.

Target Audience

DOIM/DPI personnel or anyone functioning in a position requiring Information Technology skills in the area of web site management, web server administration or web development.

ITTC-056 ORACLE DBA II**Scope**

Course scope: This course provides Oracle Net concepts, server and client Oracle Net configuration, dedicated and shared server configuration; backup and recovery overview ;instance and media recovery; archive mode configuration; user managed backup; and user-managed recovery with considerable hands-on labs for data-restoration and recovery scenarios for an Oracle9i database; setup and implementation of a standby database.

The following publication will be used in delivery of course ITTC-056: ISBN # 0-07-219374-3 and 0-07-222521-1.

Note: The publications listed above will be provided by the training center for the duration of the associated course, and will remain the property of the training center at the conclusion of the course.

Prerequisites

Course prerequisite: ITTC-040a Oracle DBA I Phase 1 and ITTC-040b Oracle DBA I Phase 2 or equivalent experience, ITTC-066 Oracle SQL I, Basic Unix Commands, Network Terminology (Networking Essentials recommended), ITTC-043 HP-UX System Administration I, vi Text Editor.

Target Audience

Ideal for experienced DPI Oracle database administrators as well as experienced DOIM database administrators, system programmers, and other personnel who will be administering the ORACLE9i Database.

ITTC-058 LAN/WAN MANAGER II**Scope**

Course ITTC-058 is a continuation of ITTC-017, and expounds on routing technology and terminology covered in the prerequisite course. BSCN builds on these fundamentals by exploring a Cisco router's role in a wide area network (WAN). Students will be exposed to working with multiple routing protocols, and troubleshooting for routing problems. Redundancy, Variable Length Subnet Masks, and Scalability will also be reinforced.

Prerequisites

Completion of course ITTC-017, Interconnecting CISCO Network Devices.

Target Audience

DOIM/DPI personnel or anyone functioning in a position requiring skills in network design and maintenance.

ITTC-061 DISTANCE LEARNING - ITC DL**Scope**

This course is designed to teach instructors how to effectively deliver instruction, utilizing two-way audio and two-way video. The course presents definitions, terminology, instructional methods, and techniques used in Video Tele Training.

Prerequisites

Completion of Battle Focus Instructor Trainer Course (BFITC) or The Army Instructor Trainer Course (TAITC) is required for students who will be instructing MOS or NCOES courses. Familiarization of PowerPoint is required.

Target Audience

ARNG soldiers serving as Distributed Learning instructors. All Regional Training Institute Instructors that wish to receive a certificate allowing them to teach via two-way audio and two-way video.

This course is taught via DTTP classroom to DTTP classroom.

ITTC-063 DISTANCE LEARNING SITE OPS - DL**Scope**

This course is designed to familiarize site managers/facilitators on how to operate and manage an DL classroom. This course will provide ground rules for use of Distance Learning facilities and equipment.

Prerequisites

None.

Target Audience

Distributed Learning Site Managers.

This course is taught via DTTP classroom to DTTP classroom.

ITTC-065 SMS ADMINISTRATION**Scope**

This course will provide students with the knowledge and skills required to setup and administer a Microsoft Systems Management Server 2003 Site.

Topics covered will include:

- Installation and Setup of the SMS Infrastructure
- Introduction to the default SMS programs
- Introduction of secondary utilities to enhance SMS functionality
- Analysis and Troubleshooting Tools
- Resource Discovery and Client Installations (Active Directory and Legacy)
- Hardware and Software Inventory Collection
- Remote Control
- Software and Package Management
- Queries and Reports
- Fault Tolerance and Recovery

As a new topic is introduced, you will be presented with labs designed to reinforce the information that has just been presented. Questions and discussion are welcome during class.

Prerequisites

Experience installing and configuring System Management software. Completion of ITTC-070, ITTC-007 and ITTC-016.

Target Audience

DOIM/DPI, Support, and Network Admin personnel who will be responsible for the installation and support of network resources, including hardware and software.

ITTC-066 ORACLE SQL I

Scope

This course will explain how to use Oracle SQL in the Unix Oracle 10g environment. Database basics, using simple functions, storing and processing dates and times, using SQL*Plus, creating simple reports, Subqueries, advanced queries, how to store, retrieve, and manipulate data using Oracle SQL*Plus in a Unix environment are included.

Prerequisites

Basic UNIX command knowledge and vi text editor.

Target Audience

Target Audience: DOIM/DPI personnel or anyone functioning in a position requiring Oracle Database SQL Information Technology skills.

ITTC-070 NETWORK ADMINISTRATION I

Scope

This is an entry level course in which students will be provided with the skills and knowledge necessary for simple day to day administration (i.e. helpdesk) in a Windows 2003 environment, as well as gaining the theoretical and practical knowledge required for additional Windows 2003 courses (ITTC-007, ITTC-016, ITTC-008). Topics covered include Administrative Tools; Windows 2003 Network Overview; NTFS and Share Permissions; User and Group Creation, Options, and Management; Maintaining Printing, Device Drivers, Disks and Data Storage.

Prerequisites

General computing skills required.

Target Audience

Helpdesk personnel

ITTC-071 MICROSOFT DBA I

Scope

This course provides students with the knowledge and skills required to implement a database solution with Microsoft SQL Server 2005 database management system. At the end of the course, students will be able to describe the elements of Microsoft SQL Server 2005 and the environments in which it can operate, as well as, configure the data storage architecture of SQL Server by creating and managing files, file groups, databases, tables, and transaction logs. Backup and Restore of database files is also discussed. Course curriculum will reinforce appropriate use, as well as monitoring and maintaining the SQL Server. Heavy emphasis is placed on Data Transformation Services, transferring data to/from heterogeneous environments.

This course does NOT cover Microsoft Access or Excel.

Prerequisites

- ITTC-066: Oracle SQL I (This is a course on the SQL query language.)

- ITTC-070: Network Administrator I

ITTC-077 MGC50 TECHNICAL MAINTENANCE COURSE

Scope

This course is a five-day, instructor-led program covering system installation, configuration, operation, and maintenance of the Polycom MGC 25/50/100 and the connected Workstation. The curriculum is delivered in a combination of lecture and hands-on laboratory exercises. The following are the goals of the course:

- Describe functions of the Audio, Video, Data, Mux processors and network

- interfaces:T1/E1, PI V.35/RS449)- H.320 & H.323 modules
- Install / Configure MGC hardware and software
 - Install / Configure Workstation-MGC Manager
 - Schedule / monitor / control a videoconference
 - Describe MGC architecture, major features, build customer configurations
 - Troubleshoot site connectivity problems
 - Capture & read traces for conference diagnostics and obtain site status information
 - Perform backups
-

Prerequisites

- Prior participation in a multipoint call
 - Familiarity with electronic equipment
 - Knowledge of Networks and Windows
 - H.320 standards and H.323 standards
-

Target Audience

ARNG Distributed Learning State Coordinators/Managers. State Network Operation Center Technicians.

ITTC-CCICC COMSEC CUSTODIAN INSPECTOR'S CERTIFICATION

Scope

This course is designed to train and certify individuals on procedures for conducting a Command Communications Security (COMSEC) inspection IAW the policy and procedures outlined in Army Regulation (AR) 380-40, Technical Bulletin (TB) 380-41, AR 380-5, AR 380-19, AR 25-12, DA Pam 25-16, **DA Pam 25-380-2, and other** regulations pertaining to COMSEC.

Course Attire: Military Personnel: Duty - BDU.
Civilian Personnel: Business Casual (Collared Shirt and Slacks).
At no time will shorts or jogging suits be authorized in the classroom.

Due to the limited classroom space and billeting at the Professional Education Center (PEC), class size is limited to 20 personnel and will not be over booked. Course cancellations must be entered in ATRRS at least 30 days prior to the course report date in order to allow adequate time for those students in a wait status in ATRRS to be notified.

Prerequisites

Individual must be a Officer, Warrant Officer, Enlisted in the grade of E-7 or higher, or a Permanent Civilian in the Grade of GS-7 or higher (The first General Officer in the chain of command may grant a waiver for E-6 or GS-6) designated to become a Command COMSEC Inspector. Individual must have successfully completed a TRADOC approved Standardized COMSEC Custodian Course and have at a minimum a SECRET level security clearance. The Local COMSEC Management Software (LCMS) course is strongly recommended.

Target Audience

ARNG/AGR Title 32 and/or Title 10 personnel, Technicians, US Army Active, and ARNG/AGR/DA Permanent Civilians.

ITTC-SCCC STANDARDIZED COMSEC CUSTODIAN COURSE

Scope

This course is designed to train and certify individuals designated primary and alternate COMSEC custodians with Department of the Army (DA) policies and procedures for safeguarding, controlling, and accounting for Communication Security (COMSEC) material as outlined in Army Regulation (AR) 380-40, Technical Bulletin (TB) 380-41, DA Pam 25-16, and AR 25-12.

Course Attire: Military Personnel: Duty - BDU.

Civilian Personnel: Business Casual (Collared Shirt and Slacks).
At no time will shorts or jogging suits be authorized in the classroom.

Due to the limited classroom space and billeting at the Professional Education Center (PEC), class size is limited to 20 personnel and will not be over booked. Course cancellations must be entered in ATRRS at least 30 days prior to the course report date in order to allow adequate time for those students in a wait status in ATRRS to be notified.

Prerequisites

Individual designated as a Primary COMSEC Account Custodian must be an Officer, Warrant Officer, Enlisted in the grade of E-6 or higher, or a Permanent Civilian in the Grade of GS-7 or higher. Individual designated as an Alternate COMSEC Account Custodian must be an Officer, Warrant Officer, Enlisted in the grade of E-5 or higher, or a Permanent Civilian in the Grade of GS-5 or higher.

Target Audience

ARNG/AGR Title 32 and/or Title 10 personnel, Technicians, US Army Active, and ARNG/AGR/DA Permanent Civilians

Labor Category Descriptions - SINS 541614SVC and 611430

Labor Category	Administrative Support Specialist Senior
Functional Responsibility	Responsible for the management and the performance of several Administrative Support personnel and numerous administrative support requirements concurrently. Directly supports Program Manager or Project Manager by maintaining personnel and other files; prepares correspondence, schedules and coordinates travel. Assists in the preparation of presentation graphics and supports the development of contract deliverables and reports by developing and updating graphic presentations to improve the quality and enhance the usability of the documents. Responsible for integrating the graphics generated with automated tools and the deliverable documents.
Minimum Education/General Experience:	High School Diploma and 4 years applicable experience.

Labor Category	Administrative Support Specialist
Functional Responsibility	Directly supports Program Manager or Project Manager by maintaining personnel and other files; prepares correspondence, schedules and coordinates travel. Assists in the preparation of presentation graphics and supports the development of contract deliverables and reports by developing and updating graphic presentations to improve the quality and enhance the usability of the documents. Responsible for integrating the graphics generated with automated tools and the deliverable documents.
Minimum Education/General Experience:	High School Diploma and 2 years applicable experience.

Labor Category	Administrative Support Specialist Junior
Functional Responsibility	Maintains personnel and other files; prepares correspondence, schedules and coordinates travel. Assists in the preparation of presentation graphics and supports the development of contract deliverables and reports by developing and updating graphic presentations to improve the quality and enhance the usability of the documents.
Minimum Education/General Experience:	High School Diploma and 1 year applicable experience.

Labor Category	Applications Developer Master
Functional Responsibility	(a) Designs, develops, enhances, debugs, and implements software. Troubleshoots production problems related to software applications. (b) Researches, tests, builds, and coordinates the conversion and/or integration of new products based on client requirements. Designs and develops new software products or

	<p>major enhancements to existing software.</p> <p>(c) Addresses problems of systems integration, compatibility, and multiple platforms.</p> <p>(d) Consults with project teams and end users to identify application requirements.</p> <p>(e) Performs feasibility analysis on potential future projects to management.</p> <p>(f) Assists in the evaluation and recommendation of application software packages, application integration and testing tools.</p> <p>(g) Resolves problems with software and responds to suggestions for improvements and enhancements.</p> <p>(h) Acts as team leader on projects.</p> <p>(i) Instructs, assigns, directs, and checks the work of other software developers on development team.</p> <p>(j) Participates in development of software user manuals.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Applications Developer Journeyman
Functional Responsibility	<p>(a) Designs, develops, enhances, debugs, and implements software. Troubleshoots production problems related to software applications.</p> <p>(b) Researches, tests, builds, and coordinates the conversion and/or integration of new products based on client requirements. Designs and develops new software products or major enhancements to existing software.</p> <p>(c) Addresses problems of systems integration, compatibility, and multiple platforms.</p> <p>(d) Consults with project teams and end users to identify application requirements.</p> <p>(e) Performs feasibility analysis on potential future projects to management.</p> <p>(f) Assists in the evaluation and recommendation of application software packages, application integration and testing tools.</p> <p>(g) Resolves problems with software and responds to suggestions for improvements and enhancements.</p> <p>(h) Acts as team leader on projects.</p> <p>(i) Instructs, assigns, directs, and checks the work of other software developers on development team.</p> <p>(j) Participates in development of software user manuals.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Applications Systems Analyst Senior
Functional Responsibility	<p>(a) Formulates/defines system scope and objectives.</p> <p>(b) Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results.</p> <p>(c) Prepares detailed specifications for programs. Assists in the design, development, testing, implementation, and documentation of new software and enhancements of existing applications.</p> <p>(d) Works with project managers, developers, and end users to ensure application designs meet business requirements.</p> <p>(e) Formulates/defines specifications for complex operating software programming applications or modifies/maintains complex existing applications using engineering releases and utilities from the manufacturer.</p> <p>(f) Designs, codes, tests, debugs, and documents those programs.</p> <p>(g) Provides overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting, and advanced mathematical/scientific software packages.</p> <p>(h) Assists all phases of software systems programming applications.</p> <p>(i) Evaluates new and existing software products.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.
Labor Category	Applications Systems Analyst Journeyman
Functional Responsibility	<p>(a) Formulates/defines system scope and objectives.</p> <p>(b) Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results.</p>

	<p>(c) Prepares detailed specifications for programs. Assists in the design, development, testing, implementation, and documentation of new software and enhancements of existing applications.</p> <p>(d) Works with project managers, developers, and end users to ensure application designs meet business requirements.</p> <p>(e) Formulates/defines specifications for complex operating software programming applications or modifies/maintains complex existing applications using engineering releases and utilities from the manufacturer.</p> <p>(f) Designs, codes, tests, debugs, and documents those programs.</p> <p>(g) Provides overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting, and advanced mathematical/scientific software packages.</p> <p>(h) Assists all phases of software systems programming applications.</p> <p>(i) Evaluates new and existing software products.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Computer Scientist
Functional Responsibility	<p>(a) Acts as a senior consultant in complex or mission critical client requirements.</p> <p>(b) Develops, modifies, and applies computer modeling and programming applications to analyze and solve mathematical and scientific problems affecting system and program performance.</p> <p>(c) Participates in all phases of scientific and engineering projects such as research, design, development, testing, modeling, simulating, training, and documentation.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	CM Change Control Administrator
Functional Responsibility	<p>(a) Evaluates project/contact requirements and establishes/maintains a data tracking system (including financial data) to monitor and control data development, revision, and delivery.</p> <p>(b) Coordinates the development, review, and submission of deliverable data in accordance with schedule and project/program requirements; evaluates project/program changes to determine the need for revision of relevant technical/ project documentation; periodically conducts audits of project/program documentation to ensure that a detailed and adequate audit trail exists; maintains contents and controls access to/distribution of project/ program files and technical library data; and prepares presentation of project/program baseline changes for consideration of the Configuration Control Board.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Consultant Senior
Functional Responsibility	<p>(a) Provides technical and administrative direction for personnel performing network development tasks, including the review of work products for correctness, adherence to the design concept and to user standards.</p> <p>(b) Possess experience sufficient scope and depth to be able to independently assimilate and gather data pertinent to network systems, organize and present data orally and in writing in a thoroughly comprehensible and logical manner.</p> <p>(c) Must have proven experience in the specified subject matter field or discipline and have excellent analytical, oral, and written communications skills. These skills include, but are not limited to, the following specialties: telecommunications, wide area networks, local area networks, information systems, and systems architecture. Languages (particularly e.g. C and Ada), Operating Systems (e.g. MS DOS, UNIX, POSIX, VM, DOS-VSE, Windows NT, and MVS), Database Management Systems, Automation Security Systems, Decision Support Systems), Artificial Intelligence Systems, Communications Protocols, Electronic Mail, Video Teleconferencing. Effectively integrate workforce and information technology, including cultural change management.</p>
Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Database Specialist Senior
Functional Responsibility	<p>(a) Provides all activities related to the administration of computerized databases.</p> <p>(b) Projects long-range requirements for database administration and design in conjunction with other managers in the information systems function.</p> <p>(c) Designs, creates, and maintains databases in a client/server environment.</p> <p>(d) Conducts quality control and auditing of databases in a client/server environment to ensure accurate and appropriate use of data.</p> <p>(e) Advises users on access to various client/server databases.</p> <p>(f) Designs, implements, and maintains complex databases with respect to JCL, access methods, access time, device allocation, validation checks, organization, protection and security, documentation, and statistical methods.</p> <p>(g) Applies knowledge and experience with database technologies, development methodologies, and front-end (e.g., COGNOS)/back-end programming languages (e.g., SQL). Performs database programming and supports systems design.</p> <p>(h) Includes maintenance of database dictionaries, overall monitoring of standards and procedures, file design and storage, and integration of systems through database design.</p>
Minimum Education/General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.
Labor Category	Engineer
Functional Responsibility	<p>(a) Provides technical solutions for routine and complex engineering studies, problems and tasks.</p> <p>(b) Performs evaluation of alternatives and assessment of risks and costs. Plan project coordination, management and engineering.</p> <p>(c) Develops analytical and conceptual techniques and methodology for problem solutions.</p> <p>(d) Performs enterprise-wide strategic systems planning, business information planning, business and analysis.</p> <p>(e) Performs process and data modeling in support of the planning and analysis efforts using both manual and automated tools, such as Integrated Computer-Aided Software Engineering (I-CASE) tools.</p> <p>(f) Applies reverse engineering and re-engineering disciplines to develop migration strategic and planning documents.</p> <p>(f) Has experience with such methodologies as IDEF O process modeling and IDEFIX data modeling. Provides technical guidance in software engineering techniques and automated support tools.</p> <p>(g) Specialized experience in one of the following: communications software, communications hardware or network specialty. General experience includes all aspects of communication networks.</p> <p>(f) Must demonstrate the ability to work independently or under only general direction.</p>
Minimum Education/General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Financial Analyst
Functional Responsibility	Provides support in the areas of budget, billing, reporting, and financial management for all initiatives.
Minimum Education/General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Hardware Engineer Senior
Functional Responsibility	<p>(a) Provides analysis related to the design, development, and implementation of hardware for products.</p> <p>(b) Develops test strategies, devices, and systems.</p> <p>(c) Performs stress and performance tests on a variety of computer hardware including circuit boards, processors and wiring.</p>
Minimum Education/General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.

Labor Category	Information Assurance/Security Specialist Master
Functional Responsibility	<p>(a) Determines enterprise information assurance and security standards.</p> <p>(b) Develops and implements information assurance/security standards and procedures.</p> <p>(c) Coordinates, develops, and evaluates security programs for an organization. Recommends information assurance/security solutions to support customers' requirements.</p> <p>(d) Identifies, reports, and resolves security violations.</p> <p>(e) Establishes and satisfies information assurance and security requirements based upon the analysis of user, policy, regulatory, and resource demands.</p> <p>(f) Supports customers at the highest levels in the development and implementation of doctrine and policies.</p> <p>(g) Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.</p> <p>(h) Performs analysis, design, and development of security features for system architectures.</p> <p>(i) Analyzes and defines security requirements for computer systems which may include mainframes, workstations, and personal computers.</p> <p>(j) Designs, develops, engineers, and implements solutions that meet security requirements.</p> <p>(k) Provides integration and implementation of the computer system security solution.</p> <p>(l) Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems.</p> <p>(m) Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.</p> <p>(n) Ensures that all information systems are functional and secure.</p>
Minimum Education/General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.

Labor Category	Information Assurance/Security Specialist Journeyman
Functional Responsibility	<p>(a) Determines enterprise information assurance and security standards.</p> <p>(b) Develops and implements information assurance/security standards and procedures.</p> <p>(c) Coordinates, develops, and evaluates security programs for an organization. Recommends information assurance/security solutions to support customers' requirements.</p> <p>(d) Identifies, reports, and resolves security violations.</p> <p>(e) Establishes and satisfies information assurance and security requirements based upon the analysis of user, policy, regulatory, and resource demands.</p> <p>(f) Supports customers at the highest levels in the development and implementation of doctrine and policies.</p> <p>(g) Applies know-how to government and commercial common user systems, as well as to dedicated special purpose systems requiring specialized security features and procedures.</p> <p>(h) Performs analysis, design, and development of security features for system architectures.</p> <p>(i) Analyzes and defines security requirements for computer systems which may include mainframes, workstations, and personal computers.</p> <p>(j) Designs, develops, engineers, and implements solutions that meet security requirements.</p> <p>(k) Provides integration and implementation of the computer system security solution.</p> <p>(l) Analyzes general information assurance-related technical problems and provides basic engineering and technical support in solving these problems.</p> <p>(m) Performs vulnerability/risk analyses of computer systems and applications during all phases of the system development life cycle.</p> <p>(n) Ensures that all information systems are functional and secure.</p>
Minimum Education/General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.

Labor Category	Information Specialist Knowledge Engineer
Functional Responsibility	(a) Develops information retrieval solutions to support client requirements for specified domain subjects, using information retrieval software languages and automated text analysis and extraction techniques
Minimum Education/General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Integrated Logistics System (ILS) Manager Principle
Functional Responsibility	Performs senior level ILS administration, including supply, purchasing, provisioning, and design, reliability, validation and maintainability analysis of complex mechanical or electro-mechanical systems/equipment per Commercial and/or Department of Defense requirements. Manages several ISL Manager's and logistics efforts concurrently. Provides high level management support and strategic. Must be able to organize and present data orally and in writing in a thoroughly comprehensible and logical manner. Must have proven experience in the specified subject matter field, discipline and have excellent analytical, oral, and written communications skills. Must be able to present presentations to executive level audiences. Effectively integrate workforce and information technology, including cultural change management. Plans, projects, coordinate, manage and oversee logistic system support efforts. Requires significant management experience in the logistics area. Knowledgeable in the preparation of ILS industry standard support documentation. Background in providing assistance to Project Managers in preparing and supporting senior level ILS.
Minimum Education/General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Integrated Logistics System (ILS) Manager Senior
Functional Responsibility	Performs senior level ILS administration, including supply, purchasing, provisioning, and design, reliability, validation and maintainability analysis of complex mechanical or electro-mechanical systems/equipment per Commercial and/or Department of Defense requirements. Manages several ISL Manager's and logistics efforts concurrently. Provides high level management support and strategic. Must be able to organize and present data orally and in writing in a thoroughly comprehensible and logical manner. Must have proven experience in the specified subject matter field, discipline and have excellent analytical, oral, and written communications skills. Must be able to present presentations to executive level audiences. Effectively integrate workforce and information technology, including cultural change management. Plans, projects, coordinate, manage and oversee logistic system support efforts. Requires management experience in the logistics area. Knowledgeable in the preparation of ILS industry standard support documentation. Background in providing assistance to Project Managers in preparing and supporting senior level ILS.
Minimum Education/General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.
Labor Category	Integrated Logistics System (ILS) Manager
Functional Responsibility	ILS administration, including supply, purchasing, provisioning, design, reliability, validation and maintainability analysis of complex mechanical or electro-mechanical systems/equipment per Department of Defense requirements. Manages several logistics efforts concurrently. Requires significant management experience in the logistics area. Knowledgeable in the preparation of ILS industry standard support documentation. Background in providing assistance to Project Managers in preparing and supporting senior level ILS.
Minimum Education/General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Logistician
Functional Responsibility	Performs logistic program activities from conceptual stage through life cycle of product. Develops and implements logistics program activities including ILS, technical documentation, RAM, provisioning, etc.; coordinates efforts of subcontractors and field service personnel; resolves logistics problems; and compiles data on standardization and

	interchangeability of parts to expedite logistic activities.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Logistician Systems Analyst
Functional Responsibility	(a) Analyzes and evaluates existing or proposed systems and devices to process data. (b) Prepares charts and diagrams to assist in problem analysis and submits recommendations for solution. (c) Prepares detailed program specifications and flowcharts, and coordinates the system's installation with the user department, ensuring satisfactory results.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Logistician Analyst 1
Functional Responsibility	(a) Develops and implements logistics plans that may affect the production, distribution, and inventory of finished products in order to enhance product flow. (b) Assists in the development of policies, guidelines, and procedures to ensure quality and cost control. (c) Conducts distribution and network studies, monitors inventory and analyzes requirements in order to develop strategies to achieve desired delivery times and order fill rates. (d) Maintains appropriate records and prepares reports. (e) Coordinates logistics activities with internal/external customers.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Program Manager
Functional Responsibility	(a) Organizes, directs, and manages contract operation support functions, involving multiple, complex and inter-related project tasks. (b) Manages teams of contract support personnel at multiple locations. (c) Maintains and manages the client interface at the senior levels of the client organization. (d) Meets with customer and contractor personnel to formulate and review task plans and deliverable items. Ensures conformance with program task schedules and costs.
Minimum Education/ General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Project Manager
Functional Responsibility	(a) Leads team on large projects or significant segment of large complex projects. (b) Analyzes new and complex project related problems and creates innovative solutions involving finance, scheduling, technology, methodology, tools, and solution components. (c) Provides applications systems analysis and programming activities for a Government site, facility or multiple locations. (d) Prepares long and short-range plans for application selection, systems development, systems maintenance, and production activities and for necessary support resources. (e) Oversees all aspects of projects.
Minimum Education/ General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Quality Assurance Specialist Master
Functional Responsibility	(a) Provides development of project Software Quality Assurance Plan and the implementation of procedures that conforms to the requirements of the contract. (b) Provides an independent assessment of how the project's software development process is being implemented relative to the defined process and recommends methods to optimize the organization's process. (c) May be responsible for all activities involving quality assurance and compliance with applicable regulatory requirements. (d) Conducts audits and reviews/analyzes data and documentation.

	(e) Develops and implements procedures and test plans for assuring quality in a system development environment which supports large databases and applications.
Minimum Education/ General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Subject Matter Expert Master
Functional Responsibility	(a) Serves as subject matter expert, possessing in-depth knowledge of a particular area, such as business, computer science, engineering, mathematics, or the various sciences. (b) Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. (c) Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases. (d) Applies principles, methods and knowledge of the functional area of capability to specific task order requirements, advanced mathematical principles and methods to exceptionally difficult and narrowly defined technical problems in engineering and other scientific applications to arrive at automated solutions.
Minimum Education/ General Experience:	Bachelor's Degree and 6 years applicable experience. The Substitution Policy may be used here.
Labor Category	Subject Matter Expert Senior
Functional Responsibility	(a) Serves as subject matter expert, possessing in-depth knowledge of a particular area, such as business, computer science, engineering, mathematics, or the various sciences. (b) Provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation. (c) Participates as needed in all phases of software development with emphasis on the planning, analysis, testing, integration, documentation, and presentation phases. (d) Applies principles, methods and knowledge of the functional area of capability to specific task order requirements, advanced mathematical principles and methods to exceptionally difficult and narrowly defined technical problems in engineering and other scientific applications to arrive at automated solutions.
Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.
Labor Category	Technical Trainer
Functional Responsibility	(a) Responsibilities include, but are not limited to, developing and conducting courses with prepared or developed instructional materials to educate technical and non-technical personnel as well as gathering and assimilating information on subject matter; organizing and condensing material and preparing course outlines, handouts and visual aids. (b) Organizes, prepares and conducts complex training and educational programs for information systems or user personnel. (c) Designs and develops training programs. Records training activities and program effectiveness.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Training Specialist Senior
Functional Responsibility	(a) Assesses, designs, and conceptualizes training scenarios, approaches, objectives, plans, tools, aids, curriculums, and other state of the art technologies related to training and behavioral studies. (b) Identifies the best approach training requirements to include, but not limited to hardware, software, simulations, course assessment and refreshment, assessment centers, oral examinations, interviews, computer assisted and adaptive testing, behavior-based assessment and performance, and team and unit assessment and measurement. (c) Develops and revises training courses. Prepares training catalogs and course materials. (d) Trains personnel by conducting formal classroom courses, workshops, and seminars.

Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.
Labor Category	Training Specialist Journeyman
Functional Responsibility	(a) Assesses, designs, and conceptualizes training scenarios, approaches, objectives, plans, tools, aids, curriculums, and other state of the art technologies related to training and behavioral studies. (b) Identifies the best approach training requirements to include, but not limited to hardware, software, simulations, course assessment and refreshment, assessment centers, oral examinations, interviews, computer assisted and adaptive testing, behavior-based assessment and performance, and team and unit assessment and measurement. (c) Develops and revises training courses. Prepares training catalogs and course materials. (d) Trains personnel by conducting formal classroom courses, workshops, and seminars.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Virtual Reality Modeler
Functional Responsibility	(a) Prepares drawings of unique, complex or original designs that require a high degree of precision; performs unusually difficult assignments requiring considerable initiative, resourcefulness, and modeling expertise. (b) Assures that anticipated problems in simulation, training development, and operation are resolved by the drawing produced. (c) Exercises independent judgment in selecting and interpreting data based on knowledge of the systems intent. (d) Ability to translate photographic and printed materials into full 3-D models. (f) Position requires modeling of military and civilian hardware and environments using 3D CAD/CAE packages and/or modeling packages. (g) Will develop decimated variants of high fidelity models that are reconfigurable to various levels of detail, resolution and materials to support various analysis applications and visual simulations. (h) Will develop high quality texture maps from photographs of the actual hardware and their operating environments and map to low fidelity model variants.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.
Labor Category	Voice/Data Engineer Senior
Functional Responsibility	(a) Provides technical direction and engineering knowledge for communications activities including planning, designing, developing, testing, installing and maintaining large communications networks.
Minimum Education/ General Experience:	Bachelor's Degree and 4 years applicable experience. The Substitution Policy may be used here.
Labor Category	Voice/Data Engineer Journeyman
Functional Responsibility	(a) Provides technical direction and engineering knowledge for communications activities including planning, designing, developing, testing, installing and maintaining large communications networks.
Minimum Education/ General Experience:	Bachelor's Degree and 2 years applicable experience. The Substitution Policy may be used here.