GENERAL SERVICES ADMINISTRATION

Federal Acquisition Service

Authorized Federal Supply Schedule FSS Price List

Online access to contract ordering information, terms and conditions, pricing, and the option to create an electronic delivery order are available through GSA Advantage!®. The website for GSA Advantage!® is: https://www.GSAAdvantage.gov.

Multiple Award Schedule (MAS)
Federal Supply Group: Professional Services
For more information on ordering go to the following website: https://www.gsa.gov/schedules.
Contract Number: GS10F0300Y
Contract Period: May 10, 2012 – May 9, 2027
Supplement No. PS0058, effective 03/27/2024.
Prices Shown Herein are Net (discount deducted)

Contractor: Andromeda Systems Incorporated
440 Viking Drive, Suite 230
Virginia Beach, VA 23452-7326

Business Size: Large Business

Telephone: (904) 402-8652

FAX Number: (904) 637-2021

Web Site: https://androsysinc.com/

E-mail: Stephen.toloczko@androsysinc.com

Contract Administration: Stephen Toloczko

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Andromeda Systems Incorporated (ASI) is a recognized leader in the fields of engineering, information technology, and logistics. We provide professional and technical services in engineering design and analysis, reliability engineering and analysis, information technology, logistics, process improvement and program management. Our highly qualified and multi-disciplined staff supports a variety of US Government and commercial customers.

ASI is a privately held business based in Virginia Beach, Virginia with additional locations across the United States. Contact us to see how our capabilities can help support your mission and improve your bottom line.

Engineering:

- Reliability Engineering
- In-service Engineering
- Product Support Engineering
- Stress analysis
- Finite Element Analysis
- Fatigue and Damage Tolerance Analysis
- Aircraft Repair Design and Analysis
- Aircraft Modification Design and Analysis
- Fleet Support Engineering

Maintenance & Logistics:

- Reliability-Centered Maintenance (RCM)
- Maintenance Planning
- CMMS Configuration & Integration
- FMEA / FMECA
- Level of Repair Analysis (LORA)
- Product Support Analysis (PSA)
- Technical Publications
- Training
- Spare Parts Forecasting

Information Technology:

- Application Development & Integration
- Network Administration & Design
- Database Administration & Design
- Security Assessment
- Help Desk Support

CUSTOMER INFORMATION:

1a. Table of Awarded Special Item Number(s) with appropriate cross reference to item descriptions and awarded price(s):

SINs	Description	Cooperative Purchasing	Disaster Recovery
511210	Software Licenses	Yes	Yes
54151	Software Maintenance Services	Yes	Yes
611420	Information Technology Training	Yes	Yes
611430	Professional and Management Development Training	No	Yes
518210C	Cloud Computing and Cloud Related IT Professional Services	Yes	Yes
522310	Financial Advising, Loan Servicing and Asset Management Services	No	Yes
541330ENG	Engineering Services	No	Yes
541380	Testing Laboratory Services	No	Yes
541420	Engineering System Design and Integration Services	No	Yes
54151S	Information Technology Professional Services	Yes	Yes
541611	Management and Financial Consulting, Acquisition and Grants Management Support, and Business Program and Project Management Services	No	Yes
541715	Engineering Research and Development and Strategic Planning	No	Yes
541990RISK	Risk Assessment and Mitigation Services	No	Yes
OLM	Order-Level Materials (**OLM**)	NOTE: When used in conjunction with a Cooperative Purchasing eligible SIN, this SIN is Cooperative Purchasing Eligible.	Yes

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 discounts, or any other concession affecting price. 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. Pricing Tables are listed below.

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, the Contractor shall insert "Not applicable" for this item. Descriptive information is listed below.

2. Maximum Order: $1,000,000.00

3. Minimum Order: $100.00

4. Geographic coverage (delivery Area): Domestic Only

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).

7. **Quantity discounts:** Products:

   Volume of two (2) Seats – discount of 35% from total value
   Volume of three (3) Seats – discount of 50% from total value
   Volume of four (4) Seats – discount 58% from total value
   Volume of five (5) Seats – discount 63% from total value
   Volume of six (6) Seats – discount 67% from total value

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.

9. **Foreign items (list items by country of origin):** None

10a. **Time of Delivery (Contractor insert number of days):** Specified on the Task Order

10b. **Expedited Delivery. Items available for expedited delivery are noted in this price list.** Contact Contractor

10c. **Overnight and 2-day delivery. The Contractor must indicate whether overnight and 2-day delivery are available. Also, the Contractor must indicate that the ordering activity may contact the Contractor for rates for overnight and 2-day delivery.** Contact Contractor

10d. **Urgent Requirements. The Contractor must note in its FSS price list that ordering agencies can request accelerated delivery for urgent requirements.** Contact Contractor

11. **F.O.B Points(s):** Destination

12a. **Ordering Address(es):** Same as Contractor

12b. **Ordering procedures:** See Federal Acquisition Regulation (FAR) 8.405-3.

13. **Payment address(es):** Same as company address

14. **Warranty provision.:** Contractor's standard commercial warranty.

15. **Export Packing Charges (if applicable):** N/A

16. **Terms and conditions of rental, maintenance, and repair (if applicable):** N/A

17. **Terms and conditions of installation (if applicable):** N/A

18a. **Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):** N/A

18b. **Terms and conditions for any other services (if applicable):** N/A

19. **List of service and distribution points (if applicable):** N/A

20. **List of participating dealers (if applicable):** N/A

21. Preventive maintenance (if applicable): N/A

22a. Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants). N/A

22b. If applicable, indicate that Section 508 compliance information is available for the information and communications technology (ICT) products and services offered and show where full details can be found (e.g., Contractor's website or other location). ICT accessibility standards can be found at https://www.section508.gov/. N/A

23. Unique Entity Identifier (UEI) number: TKJLJMJKH6G1

24. Notification regarding registration in System for Award Management (SAM) database: Registered

Professional Services Pricing

The rates shown below include the Industrial Funding Fee (IFF) of 0.75%.

SIN	Labor Category	Minimum required education	Minimum required relevant experience	Year 12 (Effective at time of modification award - 5/9/2024)	Year 13 (5/10/2024-5/9/2025)	Year 14 (5/10/2025-5/9/2026)	Year 15 (5/10/2026-5/9/2027)
				GSA PRICE including IFF	GSA PRICE including IFF	GSA PRICE including IFF	GSA PRICE including IFF
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Administrative Assistant**	High School	3	$39.35	$40.45	$41.58	$42.74
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Administrative Specialist**	High School	5	$66.39	$68.24	$70.16	$72.12
541330ENG, 541420, 541715, 522310, 541990RISK, 611430	Administrative Support**	High School	4	$43.54	$44.76	$46.02	$47.30
541330ENG, 541420, 541715	Clerk Typist**	High School	3	$30.94	$31.81	$32.70	$33.61
541330ENG, 541420, 541715, 541380	Jr. Analyst	High School	4	$54.43	$55.95	$57.52	$59.13
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Analyst	Associates	6	$75.16	$77.26	$79.42	$81.65
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	SR Analyst	Bachelors	10	$115.06	$118.29	$121.60	$125.00
541611, 541715, 522310, 541990RISK	Senior Financial Analyst	Bachelors	8	$84.93	$87.31	$89.75	$92.27
541330ENG, 541420, 541715, 541380, 541990RISK	Jr. Engineer	Bachelors	0	$102.80	$105.68	$108.64	$111.68
541330ENG, 541420, 541715, 541380, 541990RISK	Engineer	Bachelors	4	$114.13	$117.33	$120.61	$123.99
541330ENG, 541420, 541715, 541380, 541990RISK	SR Engineer	Bachelors	6	$123.90	$127.37	$130.93	$134.60
541330ENG, 541420	CAD/CAM Support**	High School	2	$59.59	$61.26	$62.97	$64.74
541330ENG, 541420, 541715, 541990RISK	Engineering Material Technician**	High School	6	$60.12	$61.80	$63.53	$65.31

541330ENG, 541420, 541715, 541380, 541990RISK	Industrial Engineering Technician**	High School	6	$53.71	$55.21	$56.76	$58.35
541330ENG, 541420, 541715, 541990RISK	Logistics Engineer	Bachelors	5	$112.06	$115.19	$118.42	$121.73
541330ENG, 541420, 541715, 541990RISK	Sr. Logistics Engineer	Bachelors	10	$152.10	$156.36	$160.74	$165.24
541990RISK, 611420	Systems Engineer IT	Bachelors	5	$99.17	$101.95	$104.80	$107.73
541330ENG, 541420, 541715	Jr. Programmer**	Bachelors	0	$55.64	$57.20	$58.80	$60.44
541330ENG, 541420, 541715	Programmer	Bachelors	5	$99.17	$101.95	$104.80	$107.73
541330ENG, 541420, 541715	Senior Programmer	Bachelors	8	$114.16	$117.36	$120.65	$124.02
541330ENG, 541611, 541420, 541715	Logistics Analyst	Bachelors	6	$88.42	$90.90	$93.45	$96.06
541330ENG, 541611, 541420, 541715	Logistics Technician**	High School	4	$66.43	$68.29	$70.21	$72.17
541330ENG, 541611, 541420, 541715	Junior Logistics Manager	Bachelors	2	$62.07	$63.81	$65.60	$67.43
541330ENG, 541611, 541420, 541715	Operations Logistics Manager	Bachelors	6	$70.72	$72.70	$74.73	$76.82
541330ENG, 541611, 541420, 541715	SR Operations Logistics Manager	Bachelors	12	$98.06	$100.80	$103.63	$106.53
541330ENG, 541611, 541420, 541715	Acquisition Logistics Manager	Bachelors	6	$82.65	$84.96	$87.34	$89.79
541330ENG, 541611, 541420, 541715	Sr. Acquisition Logistics Manager	Bachelors	12	$139.17	$143.06	$147.07	$151.19
541330ENG, 541611, 541420, 541715, 522310, 541990RISK	Consultant	Bachelors	4	$96.31	$99.01	$101.78	$104.63
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Program Manager	Bachelors	15	$140.76	$144.70	$148.75	$152.91
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Manager	Bachelors	10	$143.27	$147.28	$151.40	$155.64
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Operations Analyst	Bachelors	0	$69.05	$70.98	$72.97	$75.01
541330ENG, 541420, 541715	Systems Analyst	Bachelors	10	$100.80	$103.62	$106.53	$109.51
541330ENG, 541420, 541715, 541380, 541990RISK	Associate Test Specialist	Associates	2	$71.50	$73.50	$75.56	$77.67

541330ENG, 541420, 541715, 541380, 541990RISK	Senior Test Specialist	Bachelors	5	$88.25	$90.72	$93.26	$95.87
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Subject Matter Expert	Bachelors	15	$198.75	$204.31	$210.04	$215.92
541330ENG, 541420, 541715, 541380, 541990RISK	Integration Architect	Bachelors	10	$92.88	$95.48	$98.16	$100.91
541330ENG, 541420, 541715	Senior Systems Analyst	Bachelors	7	$124.90	$124.80	$131.99	$135.69
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Jr. Management Analyst	Bachelors	0	$86.33	$88.75	$91.24	$93.79
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Journeyman Management Analyst	Bachelors	6	$95.04	$97.71	$100.44	$103.25
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Sr. Management Analyst	Bachelors	10	$138.14	$142.01	$145.99	$150.07
541330ENG, 541420, 541715, 541380, 522310, 541990RISK	Database Administrator	Bachelors	8	$127.71	$131.28	$134.96	$138.74
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK	Quality Control (QC) Manager	Bachelors	4	$59.96	$61.64	$63.37	$65.14
541330ENG, 541420, 541715, 541380, 522310, 541990RISK	Systems Security Administrator	Bachelors	4	$77.94	$80.13	$82.37	$84.68
522310	Servicing Lead	Bachelors	10	$197.91	$203.45	$209.14	$215.00
541990RISK	Risk Management Lead	Bachelors	8	$149.91	$154.11	$158.43	$162.86
522310	Servicing Manager	Bachelors	8	$119.93	$123.29	$126.74	$130.29
522310	Servicing Supervisor	Bachelors	6	$89.95	$92.47	$95.06	$97.72
522310	Loan Processing Assistant	Bachelors	2	$70.46	$72.43	$74.46	$76.55
522310	Servicing Specialist	Associates	2	$36.00	$37.00	$38.04	$39.11
541611, 522310	Accountant	Bachelors	3	$72.72	$72.73	$76.85	$79.01
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Aerospace Engineer	Bachelors	0	$73.34	$75.39	$77.51	$79.68
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Aerospace Engineer	Bachelors	3	$103.99	$106.90	$109.89	$112.97

541330ENG, 541420, 541715, 541380, 541990RISK	Senior Aerospace Engineer	Bachelors	10	$136.82	$140.65	$144.59	$148.64
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Aerospace Structures Engineer - General	Bachelors	0	$73.34	$75.39	$77.51	$79.68
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Aerospace Structures Engineer - General	Bachelors	3	$103.99	$106.90	$109.89	$112.97
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Aerospace Structures Engineer - General	Bachelors	10	$142.29	$146.28	$150.37	$154.58
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Aerospace Structures/Stress Engineer	Bachelors	0	$76.62	$78.77	$80.97	$83.24
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Aerospace Structures/Stress Engineer	Bachelors	3	$107.27	$110.27	$113.36	$116.53
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Aerospace Structures/Stress Engineer	Bachelors	10	$157.61	$162.02	$166.56	$171.22
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Electrical Engineer	Bachelors	0	$73.34	$75.39	$77.51	$79.68
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Electrical Engineer	Bachelors	3	$103.99	$106.90	$109.89	$112.97
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Electrical Engineer	Bachelors	10	$142.29	$146.28	$150.37	$154.58
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Mechanical Systems Engineer	Bachelors	0	$73.34	$75.39	$77.51	$79.68
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Mechanical Systems Engineer	Bachelors	3	$103.99	$106.90	$109.89	$112.97
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Mechanical Systems Engineer	Bachelors	10	$142.29	$146.28	$150.37	$154.58

Information Technology Professional Services Pricing

The rates shown below include the Industrial Funding Fee (IFF) of 0.75%.

SIN	Labor Category	Minimum required education	Minimum required relevant experience	Year 12 (Effective at time of modification award - 5/9/2024)	Year 13 (5/10/2024-5/9/2025)	Year 14 (5/10/2025-5/9/2026)	Year 15 (5/10/2026-5/9/2027)
				GSA PRICE including IFF	GSA PRICE including IFF	GSA PRICE including IFF	GSA PRICE including IFF
54151S, 54151, 611420	Computer Operator	High School	4	$41.20	$42.35	$43.53	$44.75
54151S	IT Jr. Analyst	High School	4	$54.43	$55.95	$57.52	$59.13
54151S, 611420	IT Analyst	Associates	6	$75.16	$77.26	$79.42	$81.65
54151S, 611420	IT Sr. Analyst	Bachelors	10	$115.06	$118.29	$121.60	$125.00
54151S	IT Systems Engineer	Bachelors	5	$99.17	$101.95	$104.80	$107.73
54151S, 54151, 611420	IT Jr. Programmer	Bachelors	0	$55.64	$57.20	$58.80	$60.44
54151S, 54151, 611420	IT Programmer	Bachelors	5	$99.17	$101.95	$104.80	$107.73
54151S, 54151, 611420	IT Senior Programmer	Bachelors	8	$114.16	$117.36	$120.65	$124.02
54151S, 54151	IT Software Developer	Bachelors	2	$112.06	$115.19	$118.42	$121.73
54151S	IT Consultant	Bachelors	4	$96.31	$99.01	$101.78	$104.63
54151S	IT Program Manager	Bachelors	15	$140.76	$144.70	$148.75	$152.91
54151S	IT Manager	Bachelors	10	$143.27	$147.28	$151.40	$155.64
54151S	IT Operations Analyst	Bachelors	0	$69.05	$70.98	$72.97	$75.01
54151S	IT Systems Analyst	Bachelors	10	$100.80	$103.62	$106.53	$109.51
54151S	IT Associate Test Specialist	Associates	2	$71.50	$73.50	$75.56	$77.67
54151S	IT Senior Test Specialist	Bachelors	5	$88.25	$90.72	$93.26	$95.87
54151S, 54151, 611420	IT Subject Matter Expert	Bachelors	15	$198.75	$204.31	$210.04	$215.92
54151S, 54151	IT Senior Software Engineer	Bachelors	7	$147.73	$151.87	$156.12	$160.49
54151S	IT Integration Architect	Bachelors	10	$92.88	$95.48	$98.16	$100.91

54151S	IT Network Engineer	Bachelors	3	$92.88	$95.48	$98.16	$100.91
54151S	IT Senior Network Engineer	Bachelors	7	$116.10	$119.35	$122.69	$126.13
54151S	IT Senior Systems Analyst	Bachelors	7	$124.90	$128.40	$131.99	$135.69
54151S, 54151	IT Specialist Junior	Bachelors	3	$114.93	$118.14	$121.45	$124.85
54151S, 54151	IT Specialist Journeyman	Bachelors	6	$147.73	$151.86	$156.12	$160.49
54151S, 54151	IT Specialist Senior	Bachelors	10	$160.23	$164.72	$169.33	$174.07
54151S	IT Jr. Management Analyst	Bachelors	0	$86.33	$88.75	$91.24	$93.79
54151S	IT Journeyman Management Analyst	Bachelors	6	$95.04	$97.71	$100.44	$103.25
54151S	IT Sr. Management Analyst	Bachelors	10	$138.14	$142.01	$145.99	$150.07
54151S, 54151	IT Web Administrator	Bachelors	4	$116.10	$119.35	$122.69	$126.13
54151S	IT Database Administrator	Bachelors	8	$127.71	$131.28	$134.96	$138.74
54151S	IT Quality Control (QC) Manager	Bachelors	4	$59.96	$61.64	$63.37	$65.14
54151S, 54151	IT Systems Security Administrator	Bachelors	4	$77.94	$80.13	$82.37	$84.68
518210C	Cloud Solutions Architect, Junior	Bachelors	3	$114.93	$118.14	$121.45	$124.85
518210C	Cloud Solutions Architect, Journeyman	Bachelors	6	$147.73	$151.86	$156.12	$160.49
518210C	Cloud Solutions Architect, Senior	Bachelors	10	$160.23	$164.72	$169.33	$174.07
518210C	Cloud Specialist Solutions Architect, Databases	Bachelors	8	$147.73	$151.86	$156.12	$160.49
518210C	Cloud Specialist Solutions Architect, Migration	Bachelors	10	$160.23	$164.72	$169.33	$174.07

518210C	Cloud Subject Matter Expert	Bachelors	15	$198.75	$204.31	$210.04	$215.92
518210C	Cloud Software Engineer, Senior	Bachelors	10	$160.23	$164.72	$169.33	$174.07
518210C	Cloud Network Engineer	Bachelors	3	$147.73	$151.86	$156.12	$160.49
518210C	Cloud Network Engineer, Senior	Bachelors	7	$160.23	$164.72	$169.33	$174.07

Professional Services Labor Category Descriptions

SIN/SIN(s) Proposed	Labor Category Title	Labor Category Description	Minimum required education	Acceptable High School Equivalent	Minimum required years of relevant experience	Education Substitution	Is Security Clearance Required ?
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Administrative Assistant**	Administrative Assistant will prepare, maintain, and preserve technical or administrative documentation, data, correspondence, and records; prepare for meetings and conferences by arranging for location, recording minutes, preparing minutes, proposing attendees, agenda, etc.; and perform typing, word processing, transcription, graphics preparation, filing, reproduction, and office equipment operation. AAs will provide administrative and project management support, analysis, and documentation/presentation support, and collect and coordinate information for use in executive level briefings. **Education:** High School Diploma; the individual must demonstrate proficiency in general customer relations and administrative skills, which may include word processing, accounting, editing, and filing. **Experience:** Three (3) years' clerical, secretarial, or office work experience. Types 50WPM. Familiar with one or more standard office SW packages.	High School	GED	3	Bachelors/ 0 years; Associates/ 1 year	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Administrative Specialist**	Administrative Specialists (ASs) will prepare, maintain, and preserve technical or administrative documentation, data, correspondence, and records; prepare for meetings and conferences by arranging for location, recording minutes, preparing minutes, proposing attendees, agenda, etc.; and perform typing, word processing, transcription, graphics preparation, filing, reproduction, and office equipment operation. ASs will provide administrative and project management support, analysis, and documentation/presentation support, and collect and coordinate information for use in executive level briefings. They will be expected to work independently with limited supervision and will be responsible for the quality of their work. **Education:** High School diploma. **Experience:** Five (5) year's clerical, secretarial, or office work experience. Types 50WPM. Familiar with one or more standard office SW packages.	High School	GED	5	Bachelors/ 1 year; Associates/ 3 years	No
541330ENG, 541420, 541715, 522310, 541990RISK, 611430	Administrative Support**	Functions as administrative support for logistics managers performing industrial and logistics maintenance planning and sustainment tasks. Processes technical reports, papers, plans, correspondence, messages, instructions, briefing/presentation materials and other logistics documentation in final format from rough notes or drafts. Assists in performing financial management functions, applies familiarity with specialized and technical terminology	High School	GED	4	Bachelors/ 0 years; Associates/ 2 years	No

		to edit, proofread, and correct spelling, grammar, and phraseology. Provides administrative support for meetings and conferences. Operates word processing, transcription, and reproduction equipment. Fields telephone calls and performs filing and data entry. **Education:** High School diploma. **Experience:** Four (4) year of experience performing the foregoing functions. Must be proficient in the use of MS Office products.					
541330ENG, 541420, 541715	Clerk Typist**	Clerk Typists (CTs) will review and prepare logistics related documents, reports, and technical papers from notes, rough drafts, or hand-written manuscripts. They will be required to type technical reports, papers, test plans, or other program documentation in final format from rough notes or drafts, and shall edit, proofread, and correct spelling, grammar, and phraseology. The CT will assist in preparing reports and CDRL deliverables, compiling data for reports and analyses, and performing project administrative support. CTs will be expected to work independently with limited supervision and will be responsible for the quality of their work. **Education:** High School diploma. **Experience:** Three (3) years of practical experience in the preparation of manuscript copy that demonstrates the following: Familiarity with logistics, maintenance, scientific or technical terminology, maintenance or engineering documents, and reproduction equipment. Ability to use various automatic typing equipment including computers, in the preparation of manuscript copy at a speed of at least 60 words per minute. Ability to provide typing in final format from rough notes, technical papers, reports, rough drafts, and other similar source materials without intermediate drafts.	High School	GED	3	Bachelors/ 0 years; Associates/ 1 year	No
541330ENG, 541420, 541715, 541380	Jr. Analyst	Junior Analysts (JA) will support LAs and SLAs in the performance of their duties. JAs will research, analyze, and assist in the development of a variety of ILS products and reports in support of the acquisition and sustainment of aircraft, systems, or equipment. They will perform reliability and maintainability analysis, resource requirements determination, and lifecycle cost analysis as required. They will collect, research, analyze, and present maintenance and logistics data available through Navy maintenance data systems. They will be expected to work independently with limited supervision. They will be responsible for the quality of their work. **Education:** High School diploma **Experience:** Four (4) years of experience conducting analytical studies applicable to design interface and maintenance planning.	High School	GED	4	Bachelors/ 0 years; Associates/ 2 years	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Analyst	Analysts (ALs) Leads with gathering facts, analyzing data, and preparing project synopsis. Performs research and prepares technical reports for use by engineering, scientific, operational, or management personnel. Compares alternatives, recommends actions, and prepares specifications. **Education:** Associate's Degree. **Experience:** Six (6) year's performing analytical tasking as part of a technical team. Experience in moderate to large-scale system and associated programs.	Associates	GED	6	Bachelors/ 2 years; High School/ 8 years	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	SR Analyst	Senior Analysts (SAs) Oversees the gathering of facts, analyzing data, and preparing project synopsis. Performs research and prepares technical reports for use by engineering, scientific, operational, or management personnel. Compares alternatives, recommends actions, and prepares specifications. **Education:** Bachelor's Degree in the area of expertise required by the Task Order or demonstrated comprehensive knowledge of analytical principles to support complex research and analysis assignments.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No

		Experience: Ten (10) years' experience in performing increasingly more complex analysis on moderate to large-scale systems and programs. Experienced as a technical task team leader.					
541611, 541715, 522310, 541990RISK	Senior Financial Analyst	Responsible for functions of the accounting and budgetary process. Using established procedures, analyzes departmental fiscal data, programs, and operations. Applies fundamental fiscal concepts, prepares written and oral budgetary recommendations for implementation in department budgets. Assists departmental management staff and other personnel in technical budgetary matters during budget hearings, finance meetings, and in the general preparation and administration of the budget. Prepares short- and long-range budgetary projections utilizing economic forecasting and financial analytic techniques to assess the impact of budget changes and legislative requirements. Utilizes current organization-wide and/or department specific software to complete assignments. **Education:** Bachelor's degree. **Experience:** Eight (8) years of experience in financial analysis, business administration, general accounting, cost accounting, economic analysis, systems analysis, personnel administration, or related area.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Jr. Engineer	Junior Engineers (JEs) assist with system design analyses and recommends technical solutions. Applies engineering principals to investigate, analyze, plan, design, implement, test, and troubleshoot project related systems. Supports various engineering tasks for project related systems. Reviews technical, scientific, engineering, and design problems. Participates in periodic technical performance reviews. Assists with life cycle engineering tasks. **Education:** Bachelor's degree in engineering. **Experience:** Entry level, no experience required	Bachelors	None	0	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Engineer	Engineers (ENs) provide system design analysis and recommends technical solutions. Applies engineering principals to investigate, analyze, plan, design, implement, test, and troubleshoot project related systems. Applies engineering experience to perform functions such as hardware/software design, system integration, and configuration management tasks. Leads engineering and technical teams. Supports various engineering tasks for project related systems. Resolves technical, scientific, engineering, and design problems. Prepares detail specifications and participates in periodic technical performance reviews. Conducts life cycle engineering tasks. **Education:** Bachelor's degree in engineering. **Experience:** Four (4) years of project related experience.	Bachelors	None	4	Masters/ 2 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	SR Engineer	Senior Engineers (SEs) analyze project related engineering problems. Provides System design analysis and recommends technical solutions. Provides technical review and approval of design and analysis work of others. Applies engineering principals to investigate, analyze, plan, design, implement, test, and troubleshoot project related systems. Applies engineering experience to perform functions such as hardware/software design, system integration, and configuration management tasks. Leads and trains engineering and technical teams. Supports various engineering tasks for project related systems. Resolves technical, scientific, engineering and design problems. Prepares detail specifications and conducts periodic technical performance reviews. Conducts life cycle engineering tasks. **Education:** Bachelor's degree in engineering. **Experience:** Six (6) years of project related experience.	Bachelors	None	6	Masters/ 4 years	No

541330ENG, 541420	CAD/CAM Support**	CAD /CAM Technicians (CCTs) provide design of equipment and tooling/fixtures, incorporate design changes to existing equipment and tooling, prepare, update, and maintain drawings and solid models using various CAD/CAM software systems. **Education:** High school diploma. **Experience:** Two (2) years' experience using Computer Aided Drafting (CAD) techniques or automated graphics programs, adhering to standards governing style and format.	High School	None	2	Associates/ 0 years	No
541330ENG, 541420, 541715, 541990RISK	Engineering Material Technician**	Engineering Material Technician: EMT's will develop and maintain the material data in the MRP II system (BOM Building); inputs include Product Structures, Item Masters, Bill of Materials (BOM), Bill of Labor (BOL), Manufactured Part, Repair Factors, Purchase Parts, and Lead Times, Lead time Offset, National Item Identification Number (NIIN), and Local Stock Number (LSN) for specific programs including Performance Based Logistic Programs in accordance with shop operating procedures, directives and contractual agreements, obtain and analyze applicable data from various technical manuals, engineering directives, and engineered drawings to maintain data integrity within MRP II, analyze differing and unrelated data to determine applicable material requirements and articulate verbally and/or in writing findings or actions taken, interview production artisans, production controllers, equipment specialists, examiners & evaluators, Performance Base Logistic (PBL) representatives, and other personnel as required to effectively resolve technical directive requirements, provide supporting data for make or purchase decisions and maintain various types of material kitting data within MRP II. This position requires moderate supervisory assistance, and the work will be reviewed by an Industrial Engineering Technician (IET) for soundness of techniques used and accuracy of results achieved; will work independently and/or as a team member in performing duties. **Education:** High School graduate or GED equivalent. **Experience:** Six (6) years of experience in word document development, industrial processes, MRPII software, and FRC operations. Possess a minimum of four (4) years' experience directly relating to aircraft, Components and/or engine overhaul repair processes.	High School	GED	6	None	No

541330ENG, 541420, 541715, 541380, 541990RISK	Industrial Engineering Technician**	Industrial Engineering Technician: IET's perform full range of technical work in support of development, installation, test, design, and operation of non-routine and complex systems including responsibility for planning and conducting a complete project of a broad scope, develop new work documents and maintain accuracy of existing documents, work with other engineering entities and personnel in related activities to resolve problems and integrate the technical work of others, develop designs, construct major units, devices or equipment, conduct tests or experiments, analyzes results and redesign or modify equipment to improve performance; reports results, review, update, and develop work plans and routing sequence operations MRP II. Incorporate Airspeed/6 Sigma methodology and resource kitting information into the Work Plans and Routers, develop and apply appropriate capacity coding requirements (lead time/lead time off-set) to the work plans (routers and Bill of Material (BOMS)) within required time frames, review technical data packages (TDP) to determine feasibility to establish; ensure all logistic elements are in place to support full declaration, analyze/compare processes with Airspeed/6 Sigma goals to determine actions necessary to improve efficiencies and increase thru-put. Provide technical support to implement LEAN/6 Sigma initiatives, develop Standard Work processes to reduce process variability, increase first time yield, and ensure customer cost and schedule requirements are met. **Education:** High School diploma **Experience:** Six (6) years of experience performing mechanical, industrial, or electrical engineering technician duties including document development, Industrial processes, Airspeed and 6 Sigma methodology, MRPII software, and FRC operations or Possess a minimum of four (4) years' experience directly relating to aircraft, Components and/or engine overhaul/repair processes and industrial trades (may be substituted for two years engineering technician experience).	High School	GED	6	None	No
541330ENG, 541420, 541715, 541990RISK	Logistics Engineer	LE's will perform a wide spectrum of design interface and maintenance planning technical analyses, studies and evaluations such as reliability and maintainability analysis, supportability test and evaluation, failure modes and effects analysis, reliability-centered maintenance analysis, statistical analysis such as Weibull analysis, engineering investigations, root cause failure analysis, logistics support analysis, life-cycle cost analysis and supportability analysis to determine and implement supportability requirements through systems engineering and design interface in support of acquisition or sustainment of aircraft, systems and equipment. The will review and prepare reports, engineering change proposals, engineering and process specifications, and other technical documentation. **Education:** Bachelor's degree in engineering or related disciplines such as physics or mathematics. **Experience:** Five (5) years of specific experience in maintenance/logistics engineering disciplines including maintenance/logistics engineering for aircraft or weapons systems such as reliability and maintainability analysis, supportability test and evaluation, determining/implementing supportability requirements through systems engineering and design, failure modes and effects analysis, reliability-centered maintenance, logistic support analysis, or supportability analysis while working for or supporting an operational or acquisition command.	Bachelors	None	5	Masters/ 3 years	No

541330ENG, 541420, 541715, 541990RISK	Sr. Logistics Engineer	Sr. Logistics Engineer: Senior Logistics Engineers (SLEs) will plan, control, and direct logistics programs. They conduct a wide spectrum of technical analyses, studies, and evaluations such as reliability and maintainability analysis, supportability test and evaluation, failure modes and effects analysis, reliability-centered maintenance analysis, statistical analysis such as Weibull analysis, engineering investigations, root cause failure analysis, logistics support analysis, life-cycle costs analysis, and supportability analysis to determine and implement supportability requirements through systems engineering and design interface in support of acquisition or sustainment of aircraft, systems and equipment. SLEs will develop and recommend analytical tools and algorithms. They will review and prepare reports, engineering change proposals, engineering and process specifications, and other technical documentation involving design interface and maintenance planning aspects. SLEs will serve as Task Leads overseeing the activities of Logistics Engineers, and other support personnel under their cognizance. They will also provide the quality reviews necessary to ensure the accuracy and consistency of products. **Education:** Bachelor's degree in engineering or related disciplines such as physics or mathematics. **Experience:** Ten (10) years' Experience must include: A minimum of four years of maintenance/logistics engineering management experience including planning, controlling, or directing technical/logistics programs, and a minimum of four years of specific experience in maintenance/logistics engineering disciplines including maintenance/logistics engineering for aircraft or weapons systems such as reliability and maintainability analysis, supportability test and evaluation, determining/implementing supportability requirements through systems engineering and design, failure modes and effects analysis, reliability-centered maintenance, logistic support analysis, or supportability analysis while working for or supporting an acquisition command.	Bachelors	None	10	Masters/ 8 years	No
541990RISK, 611420	Systems Engineer IT	Systems Engineer-IT (SEITs) perform a variety of technical planning, system integration, verification and validation, cost and risk, and supportability and effectiveness analyses for total systems. Analyses are performed within the total system lifecycle to include concept, design, fabrication, test, installation, operation, maintenance, and disposal. **Education:** Bachelor's degree from an accredited college or university in an engineering discipline. **Experience:** Five (5) years of project related experience	Bachelors	None	5	Masters/ 3 years	No
541330ENG, 541420, 541715	Jr. Programmer**	Junior Programmers (JPs) write or modify systems applications and software. Uses current technology and high-level languages as required to support project changes and upgrades. Analyzes new applications tools. **Education:** Bachelor's degree. **Experience:** None required; entry-level position.	Bachelors	GED	0	Associates/ 2 years; High School/ 4 years	No
541330ENG, 541420, 541715	Programmer	Programmers (PGs) write or modify systems applications and software. Uses current technology and high-level languages as required to support project changes and upgrades. Analyzes new applications tools. Develops new applications or code independently. **Education:** Bachelor's degree in computer science, mathematics, engineering, or project related discipline. **Experience:** Five (5) years' experience in the computer programming field. Depending on the job assignment, knowledge of or certification in specific applications or processes may be required in the following areas: Web technologies, design technologies, specific programming languages, authoring languages and systems, and Modeling and Simulation (M&S) technologies, processes, and tools.	Bachelors	GED	5	Masters/ 3 years; Associates/ 7 years; High School/ 9 years	No

541330ENG, 541420, 541715	Senior Programmer	Senior Programmers write or modify systems applications and software. Uses current technology and high-level languages as required to support project changes and upgrades. Analyzes new applications tools. Develops new applications or code independently. **Education:** Bachelor's degree in computer science, mathematics, engineering, or project related discipline. **Experience:** Eight (8) years' experience in the computer programming field. Depending on the job assignment, knowledge of or certification in specific applications or processes may be required in the following areas: Web technologies, design technologies, specific programming languages, authoring languages and systems, and Modeling and Simulation (M&S) technologies, processes, and tools.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No
541330ENG, 541611, 541420, 541715	Logistics Analyst	Logistics Analysts (LAs) will perform comprehensive analyses and provide recommendations for tailoring, optimizing, and establishing logistics element requirements. They focus on reliability and maintainability analysis, as well as resource requirements determination for a number of logistics support products, not only in acquisition, but throughout the life cycle of an aircraft, system, or equipment. LAs conduct complex logistics, supportability, level of repair, and operational analyses; analyze logistics, maintenance, supply, reliability, and total ownership cost data to recommend the most cost-effective maintenance concepts and sustainment strategies; identify supportability issues; and evaluate ECPs. They will conduct technical studies and develop technical reports as tasked. LAs will be expected to work independently with little or no supervision. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Six (6) years' experience in aircraft systems or equipment reliability and maintainability analysis AND a minimum of two years' experience to include at least two of the following areas: Logistics Support Analysis, Operational Availability Analysis, Life Cycle Costing	Bachelors	GED	6	Masters/ 4 years; Associates/ 12 years; High School/ 14 years	No
541330ENG, 541611, 541420, 541715	Logistics Technician**	Logistics Technician (LTs) will assist other logistics analysts, managers, and engineers in the performance of their duties. They will research, analyze, and assist in the development of a variety of ILS products and reports in support of the acquisition and sustainment of aircraft, systems, or equipment. They will collect, research, analyze, and present maintenance and logistics data. LTs will be used in the areas of RCM, maintenance task analysis and documentation, support equipment, and other areas where hands-on work or experience, drafting, documentation, or maintenance skills are required. They support maintenance and logistics analytical efforts including collecting, compiling, and drafting engineering, logistics, and technical data for use in technical analyses and evaluations. LTs will be expected to work independently with limited supervision and will be responsible for the quality of their work. **Education:** High School diploma. **Experience:** Four (4) years' work experience in a logistics/maintenance engineering or scientific field in one of the following areas: engineering design, drafting, CAD/CAM, testing, or maintenance, or supportability.	High School	GED	4	None	No
541330ENG, 541611, 541420, 541715	Junior Logistics Manager	The Junior Logistics Manager will support both the Acquisition and Operations Logistics Managers in the performance of their activities. They will research, analyze, and assist in the development of a variety of Logistics Products necessary to both the acquisition and sustainment of aircraft, systems, or equipment. They will support logistics planning and management efforts including compiling and assessing logistics data, evaluating logistics support effectiveness to determine problem areas and identify potential solutions, tracking the implementation of required corrective actions and milestone accomplishments, and preparing and coordinating review of reports, plans, and/or logistics documentation. They will be expected to work independently with limited supervision. They will be responsible for the quality of their work. **Education:** Bachelor's degree from an accredited college or university.	Bachelors	GED	2	Masters/ 0 years; Associates/ 8 years; High School/ 10 years	No

		Experience: Two (2) years of experience in design interface and maintenance planning.					
541330ENG, 541611, 541420, 541715	Operations Logistics Manager	Operations Logistics Managers (OLMs) will perform logistics support analysis/maintenance planning on fielded systems. They will be responsible for developing a variety of logistics products necessary for system sustainment to a prescribed readiness level. They will focus on researching, analyzing, and evaluating a number of issues in all the Integrated Logistics Support elements to ensure supportability. OLMs will evaluate maintenance concepts and tasks and logistics resources, processes, and policies to isolate supportability issues impacting in-service programs and devise alternatives, recommendations, and solutions. They will make recommendations to the Government Customer as a result of their research. They will also conduct technical studies and develop technical reports as tasked. OLMs will be expected to work independently with little or no supervision. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Six (6) years of specific experience in supportability analysis or technical analysis of operational ILS requirements while working for or supporting an operational or acquisition command. Minimum of three years of specific experience in in-service maintenance planning.	Bachelors	GED	6	Masters/ 4 years; Associates/ 12 years; High School/ 14 years	No
541330ENG, 541611, 541420, 541715	SR Operations Logistics Manager	The SOLM will perform primarily operational logistics support/maintenance planning on fielded systems. They will be responsible for developing a variety of logistics products necessary for system sustainment to a prescribed readiness level. Their expertise in operational environments will be used in evaluating all the ILS elements to ensure supportability and making recommendations to the Government Customer. SOLMs will evaluate maintenance concepts and tasks and logistics resources, processes, and policies to isolate supportability issues impacting in-service programs and devise alternatives, recommendations, and solutions. They will conduct technical studies and develop technical reports as tasked. SOLMs will serve as Task Leads overseeing the activities of Operations Logistics Managers, Junior Logistics Managers, and other support personnel under their cognizance. They will also provide the quality reviews necessary to ensure the integrity of products. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Twelve (12) years' experience must include: A minimum of four years' experience supervising and directing at least three operational technicians in the performance of comprehensive analysis across the full spectrum of design interface and maintenance planning while working for or supporting an operational or acquisition command. A minimum of three years providing in-service logistics support specifically in design interface and maintenance planning.	Bachelors	GED	12	Masters/ 10 years; Associates/ 18 years; High School/ 20 years	No
541330ENG, 541611, 541420, 541715	Acquisition Logistics Manager	The Acquisition Logistics Manager supports acquisition programs and will support activities across the entire spectrum of acquisition logistics with primary focus on the areas of Maintenance Planning/Design Interface. They will be responsible for researching, analyzing, and developing a variety of Logistics Products necessary to the acquisition process. Their expertise will be used in evaluating the requirement for specific Logistics Products and making recommendations to the Government Customer. They will conduct technical studies and develop technical reports as tasked. They will be expected to work independently with little or no supervision. As necessary, they will serve as Task Leads overseeing the activities of Junior Logistics Managers. They will also provide the quality reviews necessary to ensure the integrity of products. **Education:** Bachelor's degree from an accredited college or	Bachelors	GED	6	Masters/ 4 years; Associates/ 12 years; High School/ 14 years	No

		university. **Experience:** Six (6) years of specific experience in supportability analysis or technical analysis of acquisition ILS requirements while working for or supporting an acquisition command. A minimum of three years of specific experience in maintenance planning is required.					
541330ENG, 541611, 541420, 541715	Sr. Acquisition Logistics Manager	Senior Acquisition Logistics Manager (SALMs) will support acquisition programs and will support activities across the entire spectrum of acquisition logistics. They will be responsible for developing a variety of logistics products necessary to the acquisition process. SALMs will support industrial and logistics maintenance planning policy and sustainment strategy development. They will perform logistics/supportability analysis and define logistics requirements for acquisition programs; develop acquisition logistics plans for translating and integrating the requirements into material solutions; and assess program information, evaluate qualitative and quantitative logistics data, and devise alternatives, recommendations, and solutions for development of or changes to policies, maintenance concepts, schedules, logistics elements, and/or processes resulting in improvements to logistics programs. SALMs will serve as Task Leads overseeing the activities of Acquisition Logistics Managers and other support personnel under their cognizance. They will also provide the quality reviews necessary to ensure the integrity of products. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Twelve (12) years of experience must include: A minimum of four years' experience supervising and directing the activities of at least three acquisition logistics managers in the performance of comprehensive analysis across the full spectrum of design interface and maintenance planning while working for or supporting an acquisition command. A minimum of four years of acquisition logistics support experience. A minimum of four years of specific experience in design interface and maintenance planning for an acquisition program.	Bachelors	GED	12	Masters/ 10 years; Associates/ 18 years; High School/ 20 years	No
541330ENG, 541611, 541420, 541715, 522310, 541990RISK	Consultant	Consultants (CN)s will interpret analysis and research and apply to project. Write and review plans, policies, procedures, and exercise documents. Prepare for and conduct client meetings. Conduct surveys, analyze and interpret results. Participate in facilitating and evaluating exercises, focus groups, and stakeholder meetings. Assist in overall project management including budgets. Participate in proposal development. Lead project team. Provide subject matter expertise to project. **Education:** Bachelor's Degree **Experience:** Four (4) Years project related experience.	Bachelors	GED	4	Masters/ 2 years	No

541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Program Manager	Program Managers (PMs) will be accountable for cost, schedule, and performance under the contract. PMs will also provide budget, financial management, and strategic planning support. Duties and responsibilities include, but are not limited to: Performing liaison and coordination duties among corporate entities, team members, and government representatives; Analyzing and recording program needs; Developing program management plans for Government approval and implementing Government-approved program management plans; Analyzing, developing, tracking, and reporting on program budgets and execution; Developing long-term funding strategies; supporting Government leadership in the development of budget requirements and documentation; responding to data calls; Developing program schedules for Government approval, and implementing and reporting on Government-approved program schedules; Developing risk mitigation actions at the program level for Government approval; Developing quality assessment and assurance procedures at the program level for Government approval, and implementing the Government-approved quality assessment and assurance procedures; Recommending to the Government the best utilization of team member personnel resources; Providing analysis, planning, and coordination for strategic planning and strategy efforts. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Fifteen (15) years of experience must include: A minimum of five years in senior level positions responsible for program management on a multi-functional team and administration of a major Integrated Logistics Support (ILS) program with a primary focus on design interface/maintenance planning or in-service support while working for or supporting an acquisition command. Specific functions managed during the five-year minimum must include but are not limited to maintenance plan development and support, design interface with a specific focus toward supportability requirements development and assessment, and Reliability- Centered Maintenance analysis and sustainment. This five year minimum experience must include specific ILS disciplines such as contained in Section C of this RFP, as well as work in developing program controls and management procedures. The last twenty years must also include a minimum of five years' experience supervising, directing, reviewing, and coordinating all work performed. This supervision/coordination oversight must have been exercised over ten or more people. A minimum of four years performing technical analysis of DoD logistics support is also required.	Bachelors	GED	15	Masters/ 13 years; Associates/ 21 years; High School 23 years	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Manager	Oversee the technical application design, construction, and implementation for assigned accounts and projects. **Education:** Bachelor's degree in a technical discipline or equivalent. **Experience:** Ten (10) plus years' experience as a technical project manager or project leader in an online commerce or software venue.	Bachelors	GED	10	Masters/ 8 years	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Operations Analyst	The OA has the capability to gather facts, analyze data, and prepare project synopsis. Performs research and prepares technical reports for use by engineering, scientific, operational, or management personnel. Compares alternatives, recommends actions, and prepares specifications. **Education:** Bachelor's Degree **Experience:** Entry level. Demonstrated capability to support research and analysis assignments, as well as a working knowledge of analytical principles.	Bachelors	GED	0	Masters/ 0 years; Associates/ 6 years; High School/ 8 years	No

541330ENG, 541420, 541715	Systems Analyst	Systems Analyst (SAs) will formulates/defines system scope and objectives based on user needs. Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Prepares detailed specifications from which programs will be written. Analyzes and revises existing system logic difficulties and documentation as necessary. SAs will be competent to work at the highest technical level of all phases of applications systems analysis activities. May use CASE tools. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Ten (10) years' experience which must include team management responsibilities.	Bachelors	GED	10	Masters/ 8 years; Associates/ 16 years; High School/ 18 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Associate Test Specialist	Understand technical requirements, functional specifications, and other inputs into test plans. Work closely with development teams to understand technology, functionality, and test strategies. Develop and document test scenarios, procedures, scripts, etc. in test database tools. Execute functional and system test cases and record and communicate results. Report defects using defect tracking tools. Verify and validate fixed defects for resolution. Perform regression testing as required to mitigate risk in changes. Participate in planning and be able to provide inputs into estimates and test schedules. Work in a team environment and follow direction of leads and managers. Be able to adapt to shifting priorities and schedules. **Education:** Associate's Degree **Experience:** Two (2) years' experience in a QA testing role, software and/or firmware testing.	Associates	GED	2	Bachelors/ 0 years; High School/ 4 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Test Specialist	Understand technical requirements, functional specifications, and other inputs into test plans. Work closely with development teams to understand technology, functionality, and test strategies. Develop and document test scenarios, procedures, scripts, etc. in test database tools. Execute functional and system test cases and record and communicate results. Report defects using defect tracking tools. Verify and validate fixed defects for resolution. Perform regression testing as required to mitigate risk in changes. Participate in planning and be able to provide inputs into estimates and test schedules. Work in a team environment and follow direction of leads and managers. Be able to adapt to shifting priorities and schedules. **Education:** Bachelor's Degree. **Experience:** Five (5) years' experience in a QA testing role, software and/or firmware testing.	Bachelors	GED	5	Associates/ 8 years; High School/ 14 years	No

541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Subject Matter Expert	Provides extremely high-level subject matter expertise for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems which require high-level knowledge of the subject matter for effective implementation. Applies principles, methods, and knowledge of specific functional areas of expertise to specific task order requirements. Provides advice on esoteric problems which require extensive knowledge of the subject matter. Designs and prepares technical reports, studies, and related documentation, makes charts and graphs to record results, prepares and delivers presentations, training, and briefings as required by the customer. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Fifteen (15) years' experience in subject matter area.	Bachelors	GED	15	PhD/ 11 years; Masters/ 13 years: Associates/ 20 years; High School/ 23 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Integration Architect	Responsible for the architectural design, development, and deployment of the enterprise's overall systems. Defines system solutions based on user/client needs, cost, and required integration with existing applications, systems, or platforms. Researches, identifies, selects, and tests technology products required for solution delivery. Establishes, implements, and documents the technology integration or migration strategies. Works on advanced, complex technical projects or business issues requiring state of the art technical or industry knowledge. Works autonomously.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No
541330ENG, 541420, 541715	Senior Systems Analyst	Oversees plans for automated data processing systems from project inception to conclusion. Analyzes user needs to determine requirements and conducts feasibility studies. Identifies resources required for each task. May supervise a large support staff and/or serve as liaison to client staff. Provides strategic guidance to other technical staff in areas such as specifications, architectures, and information system design. Research developments in field of expertise and applies them to the client environment including emerging technologies, lessons learned, best practices, and assessment methodologies. Interfaces with client personnel at all organizational levels. Develops white papers and system documentation. Converts functional specifications to technical specifications. Works independently without direct supervision. **Education:** BA/BS in Computer Science or related field. **Experience:** Seven (7) years of related experience.	Bachelors	GED	7	Masters/ 7 years; Associates/ 9 years; High School/ 11 years	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Jr. Management Analyst	Applies knowledge of management functions, processes, and analytical methods or techniques to gather, analyze, and evaluate information required by leadership and customers. Draws conclusions and devises draft solutions to problems relating to improvement of management effectiveness, organizational cost structures, work methods and procedure efficiency, resource requirements, utilization, and controls. Develops and tracks program or project milestones, progress monitoring, financial and acquisition monitoring, and quality control. May perform program or project operations cost reviews and cost studies. **Education:** BA/BS degree. **Experience:** Entry Level Position.	Bachelors	GED	0	Associates/ 2 years; High School/ 4 years	No

541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Journeyman Management Analyst	Applies knowledge of management functions, processes, and analytical methods or techniques to gather, analyze, and evaluate information required by leadership and customers. Draws conclusions and devises solutions to problems relating to improvement of management effectiveness, organizational cost structures, work methods and procedure efficiency, resource requirements, utilization, and controls. Develops and tracks program or project milestones, progress monitoring, financial and acquisition monitoring, and quality control. Performs program or project operations cost reviews and cost studies. Relies upon and uses automated management information systems, and other tools, in performing fact finding, analytical, and advisory functions. **Education:** BA/BS degree. **Experience:** Six (6) years of related experience.	Bachelors	GED	6	Masters/ 4 years; Associates/ 8 years; High School/ 10 years	No
541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK, 611430	Sr. Management Analyst	Independently applies knowledge of management functions, processes, and analytical methods or techniques to gather, analyze, and evaluate information required by leadership and customers. Draws conclusions and devises solutions to problems relating to improvement of management effectiveness, organizational cost structures, work methods and procedure efficiency, resource requirements, utilization, and controls. Develops and tracks program or project milestones, progress monitoring, financial and acquisition monitoring, and quality control. Performs program or project operations cost reviews and cost studies. Relies upon and uses automated management information systems, and other tools, in performing fact finding, analytical, and advisory functions. **Education:** BA/BS degree. **Experience:** Ten (10) years of related experience.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No
541330ENG, 541420, 541715, 541380, 522310, 541990RISK	Database Administrator	Manages and maintains the company database of medium to high complexity. Optimizes database configuration and access. Resolves database performance and capacity issues. Performs database recovery and back-up. Usually involves some development work. **Education:** BA/BS degree in related field. **Experience:** Eight (8) years of related experience.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No

541330ENG, 541611, 541420, 541715, 541380, 522310, 541990RISK	Quality Control (QC) Manager	Quality Control Manager (QC Manager) will inspect maintenance activities such as handling, storing, servicing, and repairing. Responsible for conducting quality control inspections. Responsible for collecting and analyzing data to make decisions that improve maintenance quality, performance, and customer satisfaction. Analyze and display data to allow decision making based on maintenance history and quality performance data. Monitors the activities of all personnel engaged in the input, receipt, and dissemination of related reports. Use and interpret data and readiness reports to identify maintenance status, trends, and process deficiencies. Coordinates with supervisors to ascertain compatibility of procedures among various organizations or branches engaged in maintenance support activities and to ensure a close integration of operations. Coordinates with management to train employees on the techniques and tools to identify, analyze, and lead efforts to solve problems and to provide improved customer satisfaction. Conducts classes on maintenance management subjects. Identify opportunities for process improvements. Establish and lead teams to work process improvement initiatives. Document team progress. Collect, monitor, display, interpret, and communicate process metrics to senior management team. Achieve quality performance and productivity goals. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Four (4) years' experience in quality management.	Bachelors	GED	4	Masters/ 2 years; Associates/ 6 years; High School/ 8 years	No

541330ENG, 541420, 541715, 541380, 522310, 541990RISK	Systems Security Administrator	Systems Security Administrator will perform installation, testing, monitoring, configuration, migration, maintenance and troubleshooting of assigned technology. Manage system/application environment and ongoing operations. Proactively monitor and report performance and utilization of assigned technologies. Troubleshoots software and/or hardware issues/failures. Resolves alerts and performs remediation activities. Manages problem or escalated tickets and tasks and out of cycle requests from systems/software owners. Collect and present data for reporting and planning. Assist with developing tactical strategies, processes and procedures related to systems/application administration. Collaborate with IT and business area partners on work groups and initiatives. Assist in identification of alternative configurations and approaches to enable business needs. Serve as a liaison with IT and business area partners to identify, understand, document, and advise on security requirements, impacts and risks. Develop and maintain documentation for security systems, procedures, and security diagrams. Analyze, propose, and implement solutions concerning residual risk, vulnerabilities, and other security exposures. Participate on assigned projects, ensuring that security best practices and requirements are considered and addressed. Participates in initiatives to identify, select, and implement technical controls. Develop information security processes, policies, and procedures. Advise on service level agreements and works to ensure that security controls are managed and maintained. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Four (4) years' experience must include: Knowledge of directory server (Oracle, TDS, AD, LDAP, etc.) Experience with Oracle and SQL databases. Understanding of how to secure cloud-based solutions (e.g. PaaS, SaaS, or IaaS). Demonstrate a working knowledge of multiple technologies and their interfaces and integration. Competency in one or more environments highly integrated with an operating system. Extensive experience implementing and administering/managing technical solutions in major, large-scale system implementations. Knowledge of information security principles, including risk assessment and management, threat and vulnerability management, incident response and identity and access management. Knowledge of network infrastructure including routers, switches, firewalls and associated network protocols and concepts. Experience developing, documenting, and maintaining security procedures.	Bachelors	GED	4	Masters/ 2 years; Associates/ 6 years; High School/ 8 years	No

522310	Servicing Lead	Servicing Lead will oversee the performance accountability for the outside servicing vendor. Develop, writes, and implements new policies and procedures related to loan servicing. Thorough knowledge of reporting requirements. Oversee the design and development of reporting infrastructure of monthly reports. Act as consultant with servicing leaders on interpretations of rule changes. Oversee the opportunity and risk analysis of new product offerings. Provide recommendations to senior management for changes/improvements as they pertain to loan service. Recommend new products and services to increase efficiency. Consult with servicing leaders on any interpretation of rule changes which includes research and communication with in-house counsel. Analyze Servicing policies and recommend procedural changes based on potential risk or gaps. Maintain a reporting schedule and documentation of reporting procedures. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Ten (10) years' experience of servicing. Minimum of 8 years in management and supervisory role.	Bachelors	GED	10	Associates/ 12 years; High School/ 14 years	No
541990RISK	Risk Management Lead	Risk Management Lead will conduct detailed risk assessments. Analyze market trends, reports, statistics, and relevant documentation. Compile and analyze data and information about the organization, its practices, and legal obligations. Review current risk management policies and protocols. Observe and assess internal operations. Evaluate risk levels and implications. Develop and implement policies and contingency plans to reduce and control risks and liabilities. Prepare and present risk assessment reports and proposals. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Eight (8) years' experience of risk management.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No
522310	Servicing Manager	Servicing Manager will oversee daily management of mortgage servicing operations performed by sub-servicer and interim servicing performed internally. Design, streamline and implement standard policies and procedures as an Agency approved Seller/Service. Document the monitoring of sub-servicer operations, including loss mitigation, in accordance with regulatory guidelines. Implement Agencies' policy guide changes related to all selling, securitization and servicing and investor reporting activities. Participate in department/division strategic planning. Coordinate activities with sales, operations, compliance, and other lines of business to ensure that State and Federal regulations are monitored and adhered to accordingly. Identify areas of improvement related to workflows, training, and product and facilitate effective change as needed. Analyze data and identify areas of improvement. Formulate and implement new and revised processes and procedures; collaborate with the Executive team to ensure compliance and efficiency. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Eight (8) years' experience of service management.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No

522310	Servicing Supervisor	Servicing Supervisor will oversee daily management of mortgage servicing operations performed by sub-servicer and interim servicing performed internally. Design, streamline and implement standard policies and procedures as an Agency approved Seller/Service. Document the monitoring of sub-servicer operations, including loss mitigation, in accordance with regulatory guidelines. Implement Agencies' policy guide changes related to all selling, securitization and servicing and investor reporting activities. Participate in department/division strategic planning. Coordinate activities with sales, operations, compliance, and other lines of business to ensure that State and Federal regulations are monitored and adhered to accordingly. Identify areas of improvement related to workflows, training, and product and facilitate effective change as needed. Analyze data and identify areas of improvement. Formulate and implement new and revised processes and procedures; collaborate with the Executive team to ensure compliance and efficiency. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Six (6) years' experience of service supervision.	Bachelors	GED	6	Masters/ 4 years; Associates/ 8 years; High School/ 10 years	No
522310	Loan Processing Assistant	Loan Processing Assistant will work with processors in gathering the necessary documentation required to complete a loan package for delivery to underwriting for approval. Work with title companies, settlement/closing attorneys, and insurance agents at the request of the processor to gather required documents. At the request of the processor, work with employers, borrowers and others involved to obtain verification of employment as required to document the file. Assist the processor as requested to schedule mortgage loan closings between consumers and closing attorneys. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Two (2) years' experience of loan processing.	Bachelors	GED	2	Associates/ 4 years; High School/ 6 years	No
522310	Servicing Specialist	Servicing Specialist will provide prompt and effective customer service via phone and email to internal and external customers. Post loan payments and payoffs in a timely, accurate manner. Establish ACH setups/changes and address changes on the current servicing system. Research loan history transactions on current and prior cold storage databases.	Associates	GED	2	High School/ 4 years	No
541611, 522310	Accountant	Accountant will perform the day-to-day, monthly, and year-end operations within the Finance Department, including budget review and analysis. Perform the processing and recording of Accounts Payable transactions ensuring all invoices and reimbursements are paid accurately and in accordance with Finance policies and procedures. Review Expense Account coding to ensure compliance. Manage processing of Accounts Receivable, including cash receipts, and the recording of Revenue. Upload Billing Department files to payers, receive files and reconcile to cash receipts. Perform the processing expense allocations, monthly accruals, amortization of prepaid expenses, fixed asset depreciation schedules and the recording of journal entries, including reclassification and adjustments to journal entries. Prepare and analyze monthly forecast to actual variance reports. Perform general account analysis and reconciliations, including bank statements, fixed assets, employer's benefit costs, accruals, and prepaid expenses. Assist in the preparation of financial reports, including financial statements, budgeted performance, and interim reporting. **Education:** Bachelor's degree in accounting or project related discipline. **Experience:** Three (3) years' experience in accounting.	Bachelors	GED	3	Associates/ 5 years; High School/ 7 years	No

541330ENG, 541420, 541715, 541380, 541990RISK	Junior Aerospace Engineer	Junior Aerospace Engineers apply entry-level engineering principles to contribute to the design, manufacturing, and testing of aircraft and aerospace products. Applies entry-level technical knowledge to solve and properly mitigate complex aerospace engineering and stress analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of significant proportions reported through appropriate reporting systems to improve reliability, maintainability, safety, accuracy, and/or efficiency. Studies proposed projects to assess safety and feasibility. Evaluates designs regarding engineering principles, customer requirements, and environmental regulations. Produces and presents prototypes and models for proposed designs. Conducts tests on prototypes and models. Inspects damaged or malfunctioning products to determine the problem and propose solutions. Assists in production of manuals and troubleshooting guides for finished product. Typically reports to a supervisor or manager, contributes to a support role to complex aspects of a project, and work is closely managed.	Bachelors	None	0	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Aerospace Engineer	Journeyman Aerospace Engineers contribute to the design, manufacturing, and testing of aircraft and aerospace products. Applies basic technical knowledge to solve and properly mitigate complex aerospace engineering and stress analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aerospace deficiencies of significant proportions reported through appropriate reporting systems, to improve reliability, maintainability, safety, accuracy, and/or efficiency. Evaluates and recommends disposition of emergent stress analyses. Studies proposed projects to assess safety and feasibility. Evaluates designs regarding engineering principles, customer requirements, and environmental regulations. Produces and presents prototypes and models for proposed designs. Conducts tests on prototypes and models. Inspects damaged or malfunctioning products to determine the problem and propose solutions. Assists in production of manuals and troubleshooting guides for finished product. Coordinates with other teams to ensure standards and timelines are met. Typically reports to a manager, contributes moderately to complex aspects of a project, and work is generally independent and collaborative in nature.	Bachelors	None	3	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Aerospace Engineer	Senior Aerospace Engineers apply advanced engineering principles to contribute to the design, manufacturing, and testing of aircraft and aerospace products. Plans, coordinates, conducts, and solves difficult aerospace engineering issues requiring substantial stress analysis and evaluation of causes. Applies extensive technical knowledge to solve and properly mitigate complex aerospace engineering and stress analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aerospace deficiencies of significant proportions reported through appropriate reporting systems, to improve reliability, maintainability, safety, accuracy, and/or efficiency. Evaluates and recommends disposition of emergent stress analyses. Studies proposed projects to assess safety and feasibility. Evaluates designs regarding engineering principles, customer requirements, and environmental regulations. Produces and presents prototypes and models for proposed designs. Conducts tests on prototypes and models. Inspects damaged or malfunctioning products to determine the problem and propose solutions. Determines costs for financial feasibility. Assists in production of manuals and troubleshooting guides for finished product. Coordinates with other teams to ensure standards and timelines are met. Contributes to efforts of the organization by accomplishing related tasks as needed. Typically reports to a manager or executive, contributes extensively to and/or manages complex aspects of a project, and work is independent and supervisory in nature.	Bachelors	None	10	PhD/ 8 years; Masters/ 8 years	No
541330ENG, 541420, 541715,	Junior Aerospace Structures	Junior Aerospace Structures Engineers apply entry-level engineering principles to provide aerospace engineering services with a focus in aerostructures. They provide technical support to more senior engineers in the	Bachelors	None	0	None	No

541380, 541990RISK	Engineer - General	development of aircraft structural repair, rework and modification, CAD/CAM support utilizing industry standard CAD/CAM packages. They also provide support in the development of analytical substantiation for structural rework, repair and/or modification. Interfaces with other engineering disciplines and provides engineering input to different types of structures projects. Provides input and conducts and solves entry-level to complex aircraft engineering issues requiring basic stress analysis and evaluation of causes. Applies entry-level technical knowledge to solve and properly mitigate complex aircraft engineering and structural analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of significant proportions reported through appropriate reporting systems to improve reliability, maintainability, safety, accuracy, and/or efficiency. Typically reports to a supervisor or manager, contributes to a support role to complex aspects of a project, and work is closely managed.					
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Aerospace Structures Engineer - General	Journeyman Aerospace Structures Engineers provide design and liaison/MRB engineering assistance in support of aerostructures. Physically inspect aircraft nonconforming structure and provide repair guidance to artisans. Create reports that demonstrate all relevant design requirements have been satisfied. Develop structural rework instructions, repairs and modifications and can perform initial sizing analysis based on airframe static strength/fatigue requirements. In design roles, provides CAD/CAM support utilizing industry standard CAD/CAM packages. They interface with other engineering disciplines and provide engineering input to different types of structures projects. Provides input, coordinates, conducts, and solves basic to complex aircraft engineering issues requiring moderate stress analysis and evaluation of causes. Applies basic technical knowledge to solve and properly mitigate complex aircraft engineering and stress analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of significant proportions reported through appropriate reporting systems, to improve reliability, maintainability, safety, accuracy, and/or efficiency. Typically reports to a manager, contributes moderately to complex aspects of a project, and work is generally independent and collaborative in nature.	Bachelors	None	3	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Aerospace Structures Engineer - General	Senior Aerospace Structures Engineers provide design and liaison/MRB engineering assistance in support of aerostructures. Physically inspect aircraft nonconforming structure and provide repair guidance to artisans. Create, review, and approve reports that demonstrate all relevant design requirements have been satisfied. Develop, review, and approve repairs and prepare static strength/fatigue analysis of engineering repair dispositions for nonconforming aircraft structure. They apply advanced engineering principles, interface with other engineering disciplines, and provide engineering oversight of complex projects. Plans, coordinates, conducts, and solves difficult aircraft engineering issues requiring substantial analysis and evaluation of causes. Applies extensive technical knowledge to solve and properly mitigate complex aircraft engineering issues. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of significant proportions, to improve reliability, maintainability, safety, accuracy, and/or efficiency. In design roles, provides CAD/CAM support utilizing industry standard CAD/CAM packages. Typically reports to a manager or executive, contributes extensively to and/or manages complex aspects of a project, and work is independent and supervisory in nature.	Bachelors	None	10	PhD/ 8 years; Masters/ 8 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Aerospace Structures/Stress Engineer	Junior Aerospace Structures/Stress Engineers apply entry-level engineering principles to provide aerospace engineering services with a focus in aerostructures/stress. Provides technical support to more senior engineers in the stress analysis area using classical methods of analysis as well as advanced techniques including finite element modeling (FEM). Utilizes standard software packages to	Bachelors	None	0	None	No

		facilitate classical methods of analysis, interfaces with other engineering disciplines, and provides engineering input to different types of structures and stress analysis projects. Provides input, conducts, and solves entry-level to complex aircraft engineering issues requiring entry-level stress analysis and evaluation of causes. Applies entry-level technical knowledge to solve and properly mitigate complex aircraft engineering and stress analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of moderate proportions to improve reliability, maintainability, safety, accuracy, and/or efficiency. Typically reports to a lead engineer, supervisor, or manager, contributes to a support role to complex aspects of a project, and work is closely managed.					
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Aerospace Structures/Stress Engineer	Journeyman Aerospace Structures/Stress Engineers perform and review stress analyses utilizing industry standard classical methods of analysis as well as advanced finite element analysis applications, and crack initiation/crack growth codes when durability and damage tolerance analyses are required. Provides technical support in the stress analysis area and interfaces with other engineering disciplines providing engineering input to different types of structures and stress analysis projects. Initiates the analysis of complex rework, repair, and modifications to aircraft structure; prepares static strength/fatigue/damage tolerance analysis and reports of engineering repair dispositions for nonconforming aircraft structure. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of significant proportions, to improve reliability, maintainability, safety, accuracy, and/or efficiency. Manages project components including establishing task priorities, scheduling, and tracking work assignments, providing guidance, and ensuring the availability of resources. Develops reports that demonstrate designs satisfy all relevant design requirements. Typically reports to a supervisor or manager, contributes moderately to complex aspects of a project, and work is generally independent and collaborative in nature.	Bachelors	None	3	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Aerospace Structures/Stress Engineer	Senior Aerospace Structures/Stress Engineers perform, review, and approve stress analyses utilizing industry standard classical methods of analysis as well as advanced finite element analysis applications, and crack initiation/crack growth codes when durability and damage tolerance analyses are required. Applies advanced engineering principles to perform stress analyses, to include, but not limited to, providing technical support in the stress analysis area using finite element modeling (FEM) software, interfacing with other engineering disciplines, providing engineering oversight of complex projects. Plans, coordinates, conducts, and solves difficult aircraft engineering issues requiring substantial stress analysis and evaluation of causes. Applies extensive technical knowledge to solve and properly mitigate complex aircraft engineering and stress analysis issues. Identifies, plans, evaluates, and prescribes corrective action for aircraft deficiencies of significant proportions reported through appropriate reporting systems, to improve reliability, maintainability, safety, accuracy, and/or efficiency. Evaluates and recommends disposition of emergent stress analyses, oversees, reviews, and approves the development of analysis methods. Typically reports to a manager or executive, contributes extensively to and/or manages complex aspects of a project, and work is independent and supervisory in nature.	Bachelors	None	10	PhD/ 8 years; Masters/ 8 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Electrical Engineer	Junior Electrical Engineers apply entry-level engineering principles to troubleshoot, perform analysis, and resolve problems and issues with test equipment and aircraft/electrical power, avionics, navigation, communications, and radar systems. Capable of correct interpretation, reading, and understanding of paper and electronic engineering drawings, specifications, and technical documents. Creates, modifies, and works with CAD software packages to create, modify, and interpret engineering drawings. Recommends to more senior	Bachelors	None	0	None	No

		engineers a correct course of action to change or modify aircraft systems. Typically reports to a supervisor or manager, contributes to a support role to complex aspects of a project, and work is closely managed.					
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Electrical Engineer	Journeyman Electrical Engineers apply basic engineering principles to troubleshoot, perform analysis, and resolve problems and issues with test equipment and aircraft electrical/power, avionics, navigation, communications, and radar systems. Supports correct interpretation of reading and understanding paper and electronic engineering drawings, specifications, and technical documents. Experienced in designing, maintaining, or modifying aircraft systems and developing and changing paper and electronic engineering drawings and specifications to document the design or modification. Able to create, modify, and work with CAD engineering drawings. Typically reports to a manager, contributes moderately to complex aspects of a project, and work is generally independent and collaborative in nature.	Bachelors	None	3	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Electrical Engineer	Senior Electrical Engineers apply advanced engineering principles to troubleshoot, perform analysis, and resolve problems and issues with test equipment and aircraft electrical/power, avionics, navigation, communications, and radar systems. Supports rapid and correct interpretation of reading and understanding of complex paper and electronic engineering drawings, specifications, and technical documents. Develop, design, maintain, and modify test equipment and aircraft electrical/power, avionics, navigation, communications, and radar systems; and develop and changing paper and electronic engineering drawings and specifications to document the design or modification. Develop electrical load distribution analyses (ELDAs). Proficient in CAD design and modification. Typically reports to a manager or executive, contributes extensively to and/or manages complex aspects of a project, and work is independent and supervisory in nature.	Bachelors	None	10	PhD/ 8 years; Masters/ 8 years	No
541330ENG, 541420, 541715, 541380, 541990RISK	Junior Mechanical Systems Engineer	Junior Mechanical Systems Engineers apply entry-level engineering principles to help develop, design, modify, troubleshoot, and perform analysis on test equipment, aircraft electrical/power, air conditioning, cabin pressure, auxiliary power, hydraulics and mechanical (flight controls /landing gear) systems. Has knowledge in reading and understanding paper and electronic engineering drawings, specifications, and technical documents. Has experience creating and working with CAD drawings and software. Typically reports to a supervisor or manager, contributes to a support role to complex aspects of a project, and work is closely managed.	Bachelors	None	0	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Journeyman Mechanical Systems Engineer	Journeyman Mechanical Systems Engineers apply basic engineering principles to develop, design, modify, troubleshoot, and perform analysis on test equipment, aircraft electrical/power, air conditioning, cabin pressure, auxiliary power, hydraulics and mechanical (flight controls /landing gear) systems. Experienced in reading and understanding paper and electronic engineering drawings, specifications, and technical documents. Moderate experience in designing or modifying aircraft systems and developing engineering drawings and specifications to document the design or modification. Moderate experience creating and working with CAD drawings or software. Typically reports to a manager, contributes moderately to complex aspects of a project, and work is generally independent and collaborative in nature.	Bachelors	None	3	None	No
541330ENG, 541420, 541715, 541380, 541990RISK	Senior Mechanical Systems Engineer	Senior Mechanical Systems Engineers apply extensive theoretical and applicable engineering principles to perform fluid dynamics, heat transfer, thermodynamics, mechanical, hydraulic, and kinematic analyses, provide technical support (development and review), interface with other engineering disciplines (Mechanical, Avionics and Structural Engineers), and provide oversight of and input to complex projects. Proficient in performing fluid dynamics, heat transfer, mechanical design, hydraulic design, and kinematic analyses. Extensive experience in designing or modifying aircraft systems and developing engineering drawings and	Bachelors	None	10	PhD/ 8 years; Masters/ 8 years	No

		specifications to document the design or modification. Extensive experience creating and working with CAD drawings or software. Typically reports to a manager or executive, contributes extensively to and/or manages complex aspects of a project, and work is independent and supervisory in nature.					

Information Technology Professional Services Labor Category Descriptions

SIN/SIN(s)	Labor Category Title	Labor Category Description	Minimum required education	Acceptable High School Equivalent	Minimum required years of relevant experience	Education Substitution	Is Security Clearance Required?
54151S, 54151, 611420	Computer Operator	Computer Operators (COs) will provide assistance with IT systems and databases used in the performance of technical tasks. Tasks may include software setup and administration, data import and migration, account management, process documentation, and systems training. They will be expected to work independently with limited supervision and will be responsible for the quality of their work. **Education:** High School diploma. **Experience:** Four (4) years' experience in operating computer equipment and peripheral equipment. Demonstrated ability to power-up and secure equipment and to load and off-load various automated information data types and media. Ability to operate from a remote terminal.	High School	GED	4	Bachelors/0 years: Associates/ 2 years	No
54151S	IT Jr. Analyst	IT Junior Analysts (JA) will support LAs and SLAs in the performance of their duties. ITJAs will research, analyze, and assist in the development of a variety of ILS products and reports in support of the acquisition and sustainment of aircraft, systems, or equipment. They will perform IT reliability and maintainability analysis, resource requirements determination, and lifecycle cost analysis as required. They will collect, research, analyze, and present maintenance and logistics data available through Navy maintenance IT data systems. They will be expected to work independently with limited supervision. They will be responsible for the quality of their work. **Education:** High School diploma **Experience:** Four (4) years of experience conducting analytical studies applicable to design interface and maintenance planning.	High School	GED	4	Bachelors/ 0 years; Associates/ 2 years	No
54151S, 611420	IT Analyst	IT Analysts (ALs) Leads with gathering facts, analyzing data, and preparing project synopsis. Performs research and prepares IT technical reports for use by engineering, scientific, operational, or management personnel. Compares alternatives, recommends actions, and prepares specifications.	Associates	GED	6	Bachelors/ 2 years; High School/ 8 years	No
54151S, 611420	IT Sr. Analyst	IT Senior Analysts (SAs) Oversees the gathering of facts, analyzing data, and preparing project synopsis. Performs research and prepares IT technical reports for use by engineering, scientific, operational, or management personnel. Compares alternatives, recommends actions, and prepares specifications.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No
54151S	IT Systems Engineer IT	IT Systems Engineer-IT (SEITs) perform a variety of technical planning, system integration, verification and validation, cost and risk, and supportability and effectiveness analyses for total systems. Analyses are performed within the total system life cycle to include concept, design, fabrication, test, installation, operation, maintenance, and disposal. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Five (5) years of project related experience	Bachelors	None	5	Masters/ 3 years	No
54151S, 54151, 611420	IT Jr. Programmer	IT Junior Programmers (JPs) write or modify systems applications and software. Uses current technology and high-level languages as required to support project changes and	Bachelors	GED	0	Associates/ 2 years; High	No

		upgrades. Analyzes new applications tools. **Education:** Bachelor's degree. **Experience:** None required; entry-level position.				School/ 4 years	
54151S, 54151, 611420	IT Programmer	IT Programmers (PGs) write or modify systems applications and software. Uses current technology and high-level languages as required to support project changes and upgrades. Analyzes new applications tools. Develops new applications or code independently. **Education:** Bachelor's degree in computer science or project related discipline. **Experience:** Five (5) years' experience in the computer programming field. Depending on the job assignment, knowledge of or certification in specific applications or processes may be required in the following areas: Web technologies, design technologies, specific programming languages, authoring languages and systems, and Modeling and Simulation (M&S) technologies, processes, and tools.	Bachelors	GED	5	Masters/ 3 years; Associates/ 7 years; High School/ 9 years	No
54151S, 54151, 611420	IT Senior Programmer	IT Senior Programmers write or modify systems applications and software. Uses current technology and high-level languages as required to support project changes and upgrades. Analyzes new applications tools. Develops new applications or code independently. **Education:** Bachelor's degree in computer science or project related discipline. **Experience:** Eight (8) years' experience in the computer programming field. Depending on the job assignment, knowledge of or certification in specific applications or processes may be required in the following areas: Web technologies, design technologies, specific programming languages, authoring languages and systems, and Modeling and Simulation (M&S) technologies, processes, and tools.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No
54151S, 54151	IT Software Developer	IT Software Developers will plan, develop, test, debug, implement, and support innovative web-based military & business applications, analyze, determine, and utilize creative problem solving abilities in approaching developmental tasks, work effectively with all business units and work closely with project manager and other team members to meet deadlines and reach departmental goals, leverage experience, foresight and analytical skills to efficiently find solutions in completing tasks. **Education:** Bachelor of Science in Computer Science or related discipline. **Experience:** Two (2) years' experience. Working knowledge of software development life cycle.	Bachelors	GED	2	Masters/ 0 years; Associates/ 4 years	No
54151S	IT Consultant	IT Consultants (CN)s will interpret analysis and research and apply to project. Write and review plans, policies, procedures, and exercise documents. Prepare for and conduct client meetings. Conduct surveys, analyze and interpret results. Participate in facilitating and evaluating exercises, focus groups, and stakeholder meetings. Assist in overall project management including budgets. Participate in proposal development. Lead project team. Provide subject matter expertise to project. **Education:** Bachelor's Degree **Experience:** Four (4) Years project related experience.	Bachelors	GED	4	Masters/ 2 years	No

54151S	IT Program Manager	IT Program Managers (PMs) will be accountable for cost, schedule, and performance under the contract. IT PMs will also provide budget, financial management, and strategic IT planning support. Duties and responsibilities include, but are not limited to: Performing liaison and coordination duties among corporate entities, team members, and government representatives; Analyzing and recording IT program needs; Developing IT program management plans for Government approval and implementing Government-approved program management plans; Analyzing, developing, tracking, and reporting on program budgets and execution; Developing long-term funding strategies; supporting Government leadership in the development of budget requirements and documentation; responding to data calls; Developing program schedules for Government approval, and implementing and reporting on Government-approved program schedules; Developing risk mitigation actions at the program level for Government approval; Developing quality assessment and assurance procedures at the program level for Government approval, and implementing the Government-approved quality assessment and assurance procedures; Recommending to the Government the best utilization of team member personnel resources; Providing analysis, planning, and coordination for strategic planning and strategy efforts. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Fifteen (15) years of experience must include: A minimum of five years in senior level positions responsible for program management on a multi-functional team and administration of a major Integrated Logistics Support (ILS) program with a primary focus on design interface/maintenance planning or in-service support while working for or supporting an acquisition command. Specific functions managed during the five-year minimum must include but are not limited to maintenance plan development and support, design interface with a specific focus toward supportability requirements development and assessment, and Reliability- Centered Maintenance analysis and sustainment. This five year minimum experience must include specific ILS disciplines such as contained in Section C of this RFP, as well as work in developing program controls and management procedures. The last twenty years must also include a minimum of five years' experience supervising, directing, reviewing, and coordinating all work performed. This supervision/coordination oversight must have been exercised over ten or more people. A minimum of four years performing technical analysis of DoD logistics support is also required.	Bachelors	GED	15	Masters/ 13 years; Associates/ 21 years; High School 23 years	No
54151S	IT Manager	Oversee the technical application design, construction, and implementation for assigned accounts and projects. **Education:** Bachelor's degree in a technical discipline or equivalent. **Experience:** Ten (10) plus years' experience as a technical project manager or project leader in an online commerce or software venue.	Bachelors	GED	10	Masters/ 8 years	No
54151S	IT Operations Analyst	The IT OA has the capability to gather facts, analyze data, and prepare project synopsis. Performs research and prepares IT technical reports for use by engineering, scientific, operational, or management personnel. Compares alternatives, recommends actions, and prepares specifications. **Education:** Bachelor's Degree **Experience:** Entry level. Demonstrated capability to support research and analysis assignments, as well as a working knowledge of analytical principles.	Bachelors	GED	0	Masters/ 0 years; Associates/ 6 years; High School/ 8 years	No
54151S	IT Systems Analyst	IT Systems Analyst (SAs) will formulates/defines system scope and objectives based on user needs. Devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Prepares detailed specifications from which programs will be written. Analyzes and revises existing system logic difficulties and documentation as necessary. IT SAs will be competent to work at the highest technical level of all phases of applications systems analysis activities. May use CASE tools.	Bachelors	GED	10	Masters/ 8 years; Associates/ 16 years; High School/ 18 years	No

		Education: Bachelor's degree from an accredited college or university. **Experience:** Ten (10) years' experience which must include team management responsibilities.					
54151S	IT Associate Test Specialist	Understand technical requirements, functional specifications, and other inputs into test plans. Work closely with development teams to understand technology, functionality, and test strategies. Develop and document test scenarios, procedures, scripts, etc. in test database tools. Execute functional and system test cases and record and communicate results. Report defects using defect tracking tools. Verify and validate fixed defects for resolution. Perform regression testing as required to mitigate risk in changes. Participate in planning and be able to provide inputs into estimates and test schedules. Work in a team environment and follow direction of leads and managers. Be able to adapt to shifting priorities and schedules. **Education:** Associate's Degree **Experience:** Two (2) years' experience in a QA testing role, software and/or firmware testing.	Associates	GED	2	Bachelors/ 0 years; High School/ 4 years	No
54151S	IT Senior Test Specialist	Understand technical requirements, functional specifications, and other inputs into test plans. Work closely with IT development teams to understand technology, functionality, and test strategies. Develop and document test scenarios, procedures, scripts, etc. in test database tools. Execute functional and system test cases and record and communicate results. Report defects using defect tracking tools. Verify and validate fixed defects for resolution. Perform regression testing as required to mitigate risk in changes. Participate in planning and be able to provide inputs into estimates and test schedules. Work in a team environment and follow direction of leads and managers. Be able to adapt to shifting priorities and schedules. **Education:** Bachelor's Degree. **Experience:** Five (5) years' experience in a QA testing role, software and/or firmware testing.	Bachelors	GED	5	Associates/ 8 years; High School/ 14 years	No
54151S, 54151, 611420	IT Subject Matter Expert	Provides extremely high-level IT subject matter expertise for work described in the task. Provides advanced IT technical knowledge and analysis of highly specialized IT applications and operational environment, high-level functional IT systems analysis, design, integration, documentation, training, and implementation advice on complex problems which require high-level knowledge of the subject matter for effective implementation. Applies principles, methods, and knowledge of specific functional areas of expertise to specific task order requirements. Provides advice on esoteric IT problems which require extensive knowledge of the subject matter. Designs and prepares IT technical reports, studies, and related documentation, makes charts and graphs to record results, prepares and delivers presentations, training, and briefings as required by the customer. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Fifteen (15) years' experience in subject matter area.	Bachelors	GED	15	PhD/ 11 years; Masters/ 13 years: Associates/ 20 years; High School/ 23 years	No
54151S, 54151	IT Senior Software Engineer	Analyzes and studies complex system requirements. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation. Manages software development and support using formal specifications, data flow diagrams, and other accepted design techniques. Interprets software requirements and design specifications to code and integrates and tests software components. Estimates software development costs and schedule. May supervise a staff of programmers and/or other engineers. Works independently without direct supervision. **Education:** BA/BS in Engineering, Computer Science or related field or Microsoft Certified Application Developer (MCAD) or comparable certification. **Experience:** Seven (7) years of technical experience including five (5) years of specialized experience in supervision, design methodologies, and design tools.	Bachelors	None	7	Masters/ 5 years	No
54151S	IT Integration Architect	Responsible for the architectural design, development, and deployment of the enterprise's overall IT systems. Defines IT system solutions based on user/client needs, cost, and	Bachelors	GED	10	Masters/ 8 years; Associates/	No

		required integration with existing applications, systems, or platforms. Researches, identifies, selects, and tests technology products required for solution delivery. Establishes, implements, and documents the technology integration or migration strategies. Works on advanced, complex technical projects or business issues requiring state of the art technical or industry knowledge. Works autonomously. **Education:** BA/BS degree in related technical field. **Experience:** Ten (10) years of related experience.				12 years; High School/ 14 years	
54151S	IT Network Engineer	Installs, maintains, and evaluates network systems and communications. Troubleshoots the complex network issues involving various factors. Conducts network architecture design, feasibility, and cost studies. Must have extensive knowledge of Internet, computer, routers, switches, firewall, etc. **Education:** BA/BS degree in computer science, computer engineering or related technical field. **Experience:** Three (3) years of related experience.	Bachelors	None	3	Masters/ 1 year	No
54151S	IT Senior Network Engineer	Installs, maintains, and evaluates network systems and communications. Troubleshoots the complex network issues involving various factors. Conducts network architecture design, feasibility, and cost studies. Must have extensive knowledge of Internet, computer, routers, switches, firewall, etc. A specialist on complex technical and business matters. Work is highly independent. **Education:** BA/BS degree in computer science, computer engineering or related technical field. **Experience:** Seven (7) years of related experience.	Bachelors	None	7	Masters/ 7 years	No
54151S	IT Senior Systems Analyst	Oversees plans for automated data processing systems from project inception to conclusion. Analyzes user needs to determine requirements and conducts feasibility studies. Identifies resources required for each task. May supervise a large support staff and/or serve as liaison to client staff. Provides strategic guidance to other technical staff in areas such as specifications, architectures, and information system design. Research developments in field of expertise and applies them to the client environment including emerging technologies, lessons learned, best practices, and assessment methodologies. Interfaces with client personnel at all organizational levels. Develops white papers and system documentation. Converts functional specifications to technical specifications. Works independently without direct supervision. **Education:** BA/BS in Computer Science or related field. **Experience:** Seven (7) years of related experience.	Bachelors	GED	7	Masters/ 7 years; Associates/ 9 years; High School/ 11 years	No
54151S, 54151	IT Specialist Junior	Independently apply knowledge of computer science principles, information management principles, hardware and software systems' structures and operation, and computer programming languages and techniques to solve automation problems. Interfaces with and uses computer systems in addressing project objectives. Independently identifies and uses standard, unconventional and original mathematical, algorithmic, and programmatical approaches to define, plan, organize, design, develop, modify, test, and integrate computer systems and simulation models. This person formulates architectural design, functional specifications, interfaces and documentation of hardware or software systems considering system interrelationships, operating modes and software or equipment configurations; research unconventional applications of software and operating systems in designing and developing new methodologies, significant modifications or adaptations of standardized techniques, and responsibility for developing project plans, guidelines, and controls. **Education:** A bachelor's degree in computer science, information systems management, mathematics, operations research, statistics, or engineering from an accredited college or university. **Experience:** Three (3) years of experience performing the foregoing functions is required.	Bachelors	GED	3	Masters/ 1 year; Associates/ 5 years: High School/ 7 years	No

54151S, 54151	IT Specialist Journeyman	Independently apply knowledge of computer science principles, information management principles, hardware and software systems' structures and operation, and computer programming languages and techniques to solve automation problems. Interfaces with and uses computer systems in addressing project objectives. Independently identifies and uses standard, unconventional and original mathematical, algorithmic, and programmatical approaches to define, plan, organize, design, develop, modify, test, and integrate computer systems and simulation models. This person formulates architectural design, functional specifications, interfaces and documentation of hardware or software systems considering system interrelationships, operating modes and software or equipment configurations; research unconventional applications of software and operating systems in designing and developing new methodologies, significant modifications or adaptations of standardized techniques, and responsibility for developing project plans, guidelines, and controls. **Education:** A bachelor's degree in computer science, information systems management, mathematics, operations research, statistics, or engineering from an accredited college or university. **Experience:** Six (6) years of experience performing the foregoing functions is required.	Bachelors	GED	6	Masters/ 4 years; Associates/ 8 years; High School/ 10 years	No
54151S, 54151	IT Specialist Senior	Independently apply knowledge of computer science principles, information management principles, hardware and software systems' structures and operation, and computer programming languages and techniques to solve automation problems. Interfaces with and uses computer systems in addressing project objectives. Independently identifies and uses standard, unconventional and original mathematical, algorithmic, and programmatical approaches to define, plan, organize, design, develop, modify, test, and integrate computer systems and simulation models. This person formulates architectural design, functional specifications, interfaces and documentation of hardware or software systems considering system interrelationships, operating modes and software or equipment configurations; Research unconventional applications of software and operating systems in designing and developing new methodologies, significant modifications, or adaptations of standardized techniques. Responsibility for developing project plans, guidelines, and controls; May act as team or project leader, supervising and advising with respect to the work of other computer specialists, scientists, or technicians. **Education:** A bachelor's degree in computer science, information systems management, mathematics, operations research, statistics, or engineering from an accredited college or university. **Experience:** Ten (10) years of experience performing the foregoing functions is required.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No
54151S	IT Jr. Management Analyst	Applies knowledge of management functions, processes, and analytical methods or techniques to gather, analyze, and evaluate information required by leadership and customers. Draws conclusions and devises draft IT solutions to problems relating to improvement of management effectiveness, organizational cost structures, work methods and procedure efficiency, resource requirements, utilization, and controls. Develops and tracks IT program or project milestones, progress monitoring, financial and acquisition monitoring, and quality control. May perform IT program or project operations cost reviews and cost studies. **Education:** BA/BS degree. **Experience:** Entry Level Position.	Bachelors	GED	0	Associates/ 2 years; High School/ 4 years	No
54151S	IT Journeyman Management Analyst	Applies knowledge of management functions, processes, and analytical methods or techniques to gather, analyze, and evaluate information required by leadership and customers. Draws conclusions and devises solutions to IT problems relating to improvement of management effectiveness, organizational cost structures, work methods and procedure efficiency, resource requirements, utilization, and controls. Develops and tracks IT program or project milestones, progress monitoring, financial and acquisition monitoring, and quality control. Performs IT program or project operations cost	Bachelors	GED	6	Masters/ 4 years; Associates/ 8 years; High School/ 10 years	No

		reviews and cost studies. Relies upon and uses automated management information systems, and other tools, in performing fact finding, analytical, and advisory functions. **Education:** BA/BS degree. **Experience:** Six (6) years of related experience.					
54151S	IT Sr. Management Analyst	Independently applies knowledge of management functions, processes, and analytical methods or techniques to gather, analyze, and evaluate information required by leadership and customers. Draws conclusions and devises IT solutions to IT problems relating to improvement of management effectiveness, organizational cost structures, work methods and procedure efficiency, resource requirements, utilization, and controls. Develops and tracks IT program or project milestones, progress monitoring, financial and acquisition monitoring, and quality control. Performs IT program or project operations cost reviews and cost studies. Relies upon and uses automated management information systems, and other tools, in performing fact finding, analytical, and advisory functions. **Education:** BA/BS degree. **Experience:** Ten (10) years of related experience.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No
54151S, 54151	IT Web Administrator	Maintains IT hardware and software critical to the functionality of the organization's website. Monitors usage and performance, creates and maintains backups, and troubleshoots and resolves issues as they arise. **Education:** BS/BA degree. **Experience:** Four (4) years of related experience.	Bachelors	GED	4	Masters/ 2 years; Associates/ 6 years; High School/ 8 years	No
54151S	IT Database Administrator	Manages and maintains the company database of medium to high complexity. Optimizes database configuration and access. Resolves database performance and capacity issues. Performs database recovery and back-up. Usually involves some development work. **Education:** BA/BS degree in related field. **Experience:** Eight (8) years of related experience.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No
54151S	IT Quality Control (QC) Manager	IT Quality Control Manager (QC Manager) will inspect maintenance activities such as handling, storing, servicing, and repairing. Responsible for conducting IT quality control inspections. Responsible for collecting and analyzing data to make decisions that improve maintenance quality, performance, and customer satisfaction. Analyze and display data to allow decision making based on maintenance history and quality performance data. Monitors the activities of all personnel engaged in the input, receipt, and dissemination of related IT reports. Use and interpret data and readiness reports to identify maintenance status, trends, and process deficiencies. Coordinates with supervisors to ascertain compatibility of procedures among various organizations or branches engaged in IT maintenance support activities and to ensure a close integration of operations. Coordinates with management to train employees on the techniques and tools to identify, analyze, and lead efforts to solve problems and to provide improved customer satisfaction. Conducts classes on maintenance management subjects. Identify opportunities for process improvements. Establish and lead teams to work process improvement initiatives. Document team progress. Collect, monitor, display, interpret, and communicate process metrics to senior management team. Achieve quality performance and productivity goals. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Four (4) years' experience in quality management.	Bachelors	GED	4	Masters/ 2 years; Associates/ 6 years; High School/ 8 years	No

54151S, 54151	IT Systems Security Administrator	IT Systems Security Administrator will perform installation, testing, monitoring, configuration, migration, maintenance and troubleshooting of assigned technology. Manage IT system/application environment and ongoing operations. Proactively monitor and report performance and utilization of assigned technologies. Troubleshoots software and/or hardware issues/failures. Resolves alerts and performs remediation activities. Manages problem or escalated tickets and tasks and out of cycle requests from systems/software owners. Collect and present data for reporting and planning. Assist with developing tactical strategies, processes and procedures related to systems/application administration. Collaborate with IT and business area partners on work groups and initiatives. Assist in identification of alternative configurations and approaches to enable business needs. Serve as a liaison with IT and business area partners to identify, understand, document, and advise on security requirements, impacts and risks. Develop and maintain documentation for security systems, procedures, and security diagrams. Analyze, propose, and implement solutions concerning residual risk, vulnerabilities, and other security exposures. Participate on assigned projects, ensuring that security best practices and requirements are considered and addressed. Participates in initiatives to identify, select, and implement technical controls. Develop information security processes, policies, and procedures. Advise on service level agreements and works to ensure that security controls are managed and maintained. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Four (4) years' experience must include: Knowledge of directory server (Oracle, TDS, AD, LDAP, etc.) Experience with Oracle and SQL databases. Understanding of how to secure cloud-based solutions (e.g. PaaS, SaaS, or IaaS). Demonstrate a working knowledge of multiple technologies and their interfaces and integration. Competency in one or more environments highly integrated with an operating system. Extensive experience implementing and administering/managing technical solutions in major, large-scale system implementations. Knowledge of information security principles, including risk assessment and management, threat and vulnerability management, incident response and identity and access management. Knowledge of network infrastructure including routers, switches, firewalls and associated network protocols and concepts. Experience developing, documenting, and maintaining security procedures.	Bachelors	GED	4	Masters/ 2 years; Associates/ 6 years; High School/ 8 years	No
518210C	Cloud Solutions Architect, Junior	Independently apply knowledge of computer science principles, information management principles, hardware and software systems' structures and operation, and computer programming languages and techniques to solve automation problems. Interfaces with and uses computer systems in addressing project objectives. Independently identifies and uses standard, unconventional and original mathematical, algorithmic, and programmatical approaches to define, plan, organize, design, develop, modify, test, and integrate computer systems and simulation models. This person formulates architectural design, functional specifications, interfaces and documentation of hardware or software systems considering system interrelationships, operating modes and software or equipment configurations; research unconventional applications of software and operating systems in designing and developing new methodologies, significant modifications or adaptations of standardized techniques, and responsibility for developing project plans, guidelines, and controls. Some experience architecting, designing, migrating workloads to the public cloud. **Education:** A bachelor's degree in computer science, information systems management, mathematics, operations research, statistics, or engineering from an accredited college or university. **Experience:** Three (3) years of experience performing the foregoing functions is required.	Bachelors	GED	3	Masters/ 1 year; Associates/ 5 years: High School/ 7 years	No

518210C	Cloud Solutions Architect, Journeyman	Independently apply knowledge of computer science principles, information management principles, hardware and software systems' structures and operation, and computer programming languages and techniques to solve automation problems. Interfaces with and uses computer systems in addressing project objectives. Independently identifies and uses standard, unconventional and original mathematical, algorithmic, and programmatical approaches to define, plan, organize, design, develop, modify, test, and integrate computer systems and simulation models. This person formulates architectural design, functional specifications, interfaces and documentation of hardware or software systems considering system interrelationships, operating modes and software or equipment configurations; research unconventional applications of software and operating systems in designing and developing new methodologies, significant modifications or adaptations of standardized techniques, and responsibility for developing project plans, guidelines, and controls. Experience architecting, designing, migrating workloads to the public cloud **Education:** A bachelor's degree in computer science, information systems management, mathematics, operations research, statistics, or engineering from an accredited college or university. **Experience:** Six (6) years of experience performing the foregoing functions is required.	Bachelors	GED	6	Masters/ 4 years; Associates/ 8 years; High School/ 10 years	No
518210C	Cloud Solutions Architect, Senior	Independently apply knowledge of computer science principles, information management principles, hardware and software systems' structures and operation, and computer programming languages and techniques to solve automation problems. Interfaces with and uses computer systems in addressing project objectives. Independently identifies and uses standard, unconventional and original mathematical, algorithmic, and programmatical approaches to define, plan, organize, design, develop, modify, test, and integrate computer systems and simulation models. This person formulates architectural design, functional specifications, interfaces and documentation of hardware or software systems considering system interrelationships, operating modes and software or equipment configurations; Research unconventional applications of software and operating systems in designing and developing new methodologies, significant modifications, or adaptations of standardized techniques. Responsibility for developing project plans, guidelines, and controls; May act as team or project leader, supervising and advising with respect to the work of other computer specialists, scientists, or technicians. Extensive experience architecting, designing, migrating workloads to the public cloud. **Education:** A bachelor's degree in computer science, information systems management, mathematics, operations research, statistics, or engineering from an accredited college or university. **Experience:** Ten (10) years of experience performing the foregoing functions is required.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No
518210C	Cloud Specialist Solutions Architect, Databases	Design Database customer solutions and collaborate with Solutions Architects to determine the best cloud purpose-built database for the solution. Implementation and tuning experience of Databases including knowledge of Schema Design, Query Tuning and Optimization and Data Migration and Integration. **Education:** BA/BS degree in related field. **Experience:** Eight (8) or more years of Relational Database implementation and operations experience. Very strong Oracle and/or SQL Server experience. Three (3) years' experience with cloud purpose-built databases.	Bachelors	GED	8	Masters/ 6 years; Associates/ 10 years; High School/ 12 years	No
518210C	Cloud Specialist Solutions Architect, Migration	Responsible for the architectural design, development, and deployment of the enterprise's overall systems. Defines system solutions based on user/client needs, cost, and required integration with existing applications, systems, or platforms. Researches, identifies, selects, and tests technology products required for solution delivery. Establishes, implements, and documents the technology integration or migration strategies. Works on advanced, complex technical projects or business issues requiring state of the art technical or industry knowledge. Works autonomously.	Bachelors	GED	10	Masters/ 8 years; Associates/ 12 years; High School/ 14 years	No

		Education: BA/BS degree in related technical field. **Experience:** Ten (10) years of related experience. Six (6) years of experience migrating information systems and applications to the cloud.					
518210C	Cloud Subject Matter Expert	Provides extremely high-level subject matter expertise for work described in the task. Provides advanced technical knowledge and analysis of highly specialized applications and operational environment, high-level functional systems analysis, design, integration, documentation, training, and implementation advice on complex problems which require high-level knowledge of the subject matter for effective implementation. Applies principles, methods, and knowledge of specific functional areas of expertise to specific task order requirements. Provides advice on esoteric problems which require extensive knowledge of the subject matter. Designs and prepares technical reports, studies, and related documentation, makes charts and graphs to record results, prepares and delivers presentations, training, and briefings as required by the customer. **Education:** Bachelor's degree from an accredited college or university. **Experience:** Fifteen (15) years' experience in subject matter area. Eight (8) years' experience utilizing public clouds.	Bachelors	GED	15	PhD/ 11 years; Masters/ 13 years: Associates/ 20 years; High School/ 23 years	No
518210C	Cloud Software Engineer, Senior	Analyzes and studies complex system requirements. Designs software tools and subsystems to support software reuse and domain analyses and manages their implementation. Manages software development and support using formal specifications, data flow diagrams, and other accepted design techniques. Interprets software requirements and design specifications to code and integrates and tests software components. Estimates software development costs and schedule. Integrates software with cloud Platform as a Service (PaaS) offerings as defined by Solutions Architects. May supervise a staff of programmers and/or other engineers. Works independently without direct supervision. **Education:** BA/BS in Engineering, Computer Science or related field or Microsoft Certified Application Developer (MCAD) or comparable certification. **Experience:** Ten (10) years of technical experience including five (5) years of specialized experience in supervision, design methodologies, and design tools. Three (3) years of technical experience utilizing PaaS cloud offerings.	Bachelors	None	10	Masters/ 8 years	No
518210C	Cloud Network Engineer	Design and deploy cloud virtual networks. Works with Solutions Architects to implement required solutions. Troubleshoots the complex network issues involving various factors. Conducts network architecture design, feasibility, and cost studies. Must have extensive knowledge of internet, routers, switches, firewall, and all applicable cloud equivalents. **Education:** BA/BS degree in computer science, computer engineering or related technical field. **Experience:** Three (3) years of related experience.	Bachelors	None	3	Masters/ 1 year	No
518210C	Cloud Network Engineer, Senior	Design and deploy cloud virtual networks. Works with Solutions Architects to implement required solutions. Troubleshoots the complex network issues involving various factors. Conducts network architecture design, feasibility, and cost studies. Must have extensive knowledge of internet, routers, switches, firewall, and all applicable cloud equivalents. A specialist on complex technical and business matters. Work is highly independent. **Education:** BA/BS degree in computer science, computer engineering or related technical field. **Experience:** Seven (7) years of related experience.	Bachelors	None	7	Masters/ 5 years	No

Service Contract Labor Standards (SCLS) Act 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 services 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 and Title	WD Number
Administrative Assistant	01311 - Secretary	2015-4539
Administrative Specialist	01313 – Secretary III	2015-4539
Administrative Support	01020 – Administrative Assistant	2015-4539
Clerk Typist	01070 – Document Preparation Clerk	2015-4539
CAD/CAM Support	30064 – Drafter/CAD Operator IV	2015-4539
Engineering Material Technician	30083 – Engineering Technician III	2015-4539
Industrial Engineering Technician	30082 – Engineering Technician II	2015-4539
Jr. Programmer	14071 – Computer Programmer I	2015-4539
Logistics Technician	30083 – Engineering Technician III	2015-4539

Training Courses

1. Product Support Analysis (PSA)
SIN 611420
Class Length: 3 days
Minimum Participants 10 / Maximum Participants 20
GSA Price (w/IFF): $805.04 per person

Description of Material to be taught:

An introductory course designed to provide an understanding of Product Support Analysis (PSA) disciplines as they relate to the five phases of the Defense Acquisition Management System (DoD Instruction 5000). Gain the instruction and practical application needed to apply life cycle management processes to acquired systems, equipment, and high-value physical assets. This course offers an overview, using guidance from the SAE-GEIA-STD-0007 and SAE-TA-STD-0017. Intended for anyone who will be involved in performing PSA from beginner to expert.

Introduction to Supportability
- Identify the processes that provide a means to determine, validate, and prioritize capability requirements.
- Describe the Joint Capabilities Integration and Development System (JCIDS)
- Define Supportability Objectives
- Identify the key PSA Activities that produce Logistics Product Data (LPD)

Material Solution Analysis
- Define the purpose of the Materiel Solution Analysis phase.
- Define the purpose of an Analysis of Alternatives
- Describe the purpose of Product Support Strategy
- Explain how to develop Supportability Thresholds and Objectives
- Identify the Logistician's role is in the MSA Phase
- Describe the elements of the Use Study Report (Application Assessment)
- Identify Functional Requirement sub-activities.
- Explain the purpose of the Comparative Analysis
- Review the Baseline Comparison System Comparative Analysis Process
- Describe the purpose of standardization and interoperability.
- Define the purpose of Systems Engineering Technical Reviews (SETR)
- Identify the SETRs that occur during Materiel Solution Analysis Phase

Technology Maturation Risk Reduction
- Define the purpose of the Technology Maturation and Risk Reduction phase.
- Describe the purpose of Technology Development Strategy (TDS)
- Define the purpose of Life Cycle Sustainment Plan (LCSP)
- Explain when the LCSP should be updated.
- Identify which PSA Activities should be updated during Technology Maturation and Risk Reduction phase.
- Describe the purpose of Evaluation of Alternatives and Tradeoff Analysis activity.
- Identify the factors to consider when selecting and conducting tradeoffs and evaluations.
- Describe the process for conducting a tradeoff analysis.
- Identify the information outcomes required when conducting the upper-level Task Analysis
- Identify the SETRs that occur during Technology Maturation and Risk Reduction Phase

Engineering and Manufacturing Development
- Define the purpose of the Engineering and Manufacturing Development (E&MD) Phase
- Demonstrate the approach for conducting the Failure Modes, Effects, and Criticality Analysis (FMECA)
- Define Fault Tree Analysis
- Explain the purpose of Reliability Centered Maintenance (RCM)
- Define Inherent Reliability
- Describe the process overview for the following:
- FMECA
- RCM Tasks
- Define the purpose of Condition Based Maintenance Plus (CBM+) and Prognostic and Health Management (PHM)

Describe the Level of Repair (LORA) Process
Identify the main (direct) inputs for MTA.
Explain the purpose of Maintenance Task Analysis
Identify the procedures for conducting the Early Distribution Analysis
Define the purpose of Supportability Test and Evaluation (ST&E)
Identify the different ST&E Activities
Identify the SETRs that occur during Engineering and Manufacturing Development (E&MD)

Production Deployment Operations

Define the purpose of the Production and Deployment / Operations and Support Phases
Define the purpose of Initial Operational Test & Evaluation (IOT&E)
Describe the purpose of Physical Configuration Audit (PCA)
Define the purpose of an Engineering Change Proposal (ECP)
Define the difference between a Class I and Class II ECP criteria.
Identify the different ECP Priorities
Define the purpose of Technical Directives (TD)
Explain why Technical Directives (TD) are used.
Define the purpose of supply support.
Identify the four basic functions required of supply support.
Identify Environment, Safety, and Occupational Health Considerations
Define Diminishing Manufacturing Sources and Material Shortages (DMSMS)
Explain the DMSMS Management process.
Describe the purpose of the Packaging, Handling, Storage, and Transportation (PHS&T)
Explain the purpose of Postproduction Support Planning
Describe the three steps that are typically used to develop a Postproduction Support Plan
Define the traditional problems in a post-production environment.
Identify the SETRs that occur during Production and Deployment Phase Contracting
Identify the different contracting components.
Identify the relationships of the contracting components.
Define the purpose of a Statement of Work (SOW)
Define the purpose of Contract Data Requirements List

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

2. Logistics Product Data (LPD)
SIN 611420
Class Length: 3 days
Minimum Participants 10 / Maximum Participants 20
GSA Price (w/IFF): $805.04 per person

Description of Material to be taught:

An intermediate level course designed to provide an understanding of the concepts, principles and current reference standards which guide Product Support Analysis (PSA) and Logistics Product Data (LPD). Intended for experienced logisticians and supportability professionals.

Introduction to LPD

Define LPD.
Explain the LPD standards.
Describe how LPD is used throughout the lifecycle of a weapon system.
Describe Ground Rules & Assumptions for LPD Program

GEIA-STD-0007 Data Entities

Introduction to LPD Documentation.
Identify data entities input for DoD weapon systems.
Define relational data entities.
Explain LPD business rules.

Identify LPD standard summary reports.

LPD in the Sustainment Phase

Explain the LPD sustainment process.
Explain the LPD feedback process.
Identify the PSA processes that drive LPD updates.
Identify support system metrics that measure LPD effectiveness.

Contracting for LPD

Contracting Process Flow.
Contracting Documentation.
Cost Estimation for LPD Performance.
Contracting Considerations

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

3. Fundamentals of Reliability Centered Maintenance Analysis (RCM)
SIN 611420
Class Length: 3 days
Minimum Participants 10 / Maximum Participants 20
GSA Price (w/IFF): $805.04 per person

Description of Material to be taught:

An introduction to the RCM process that provides the instruction and practical application required to apply Reliability Centered Maintenance Analysis to physical assets. The course provides instruction in a Society of Automotive Engineers (SAE) Standard JA1011 compliant RCM process. This course provides training designed to provide an understanding of RCM disciplines as they relate to developing efficient preventative maintenance programs. Intended for personnel who will perform or facilitate RCM analyses.

UNIT I - INTRODUCTION

Module 1 - RCM Introduction
Module 2 - Asset Management and the Role of RCM
Module 3 - Terminology/Concepts

UNIT II - RCM PROCESS

Module 1 - RCM Process Overview
Module 2 - Planning and Preparation
Module 3 - Hardware Partitioning
Workshop 1 - Coffee Maker
Exercise - Hardware Partitioning (Instructor Lead)
Module 4 – FMECA
Exercise - FMECA Development (Instructor Lead)
Module 5 - RCM Decision Logic
Module 6 - RCM Analyzer Software Review/Demo

UNIT III - HOW TO PERFORM RCM

Module 1 - Service/Lubrication Tasks
Module 2 - On Condition Tasks
Module 2A - Condition Based Maintenance
Module 3 - Hard Time Tasks
Module 4 - Failure Finding Tasks
Module 5 - Age Exploration
Module 6 - Selecting Tasks or Other Options
Module 7 - RCM Analyzer Data Elements
Module 8 - Analytical Methods
Spreadsheet Exercise (Instructor Lead)
WORKSHOP 2- Suburban (optional)
Module 9 – Maintenance Task Analysis

UNIT IV – ADDITIONAL TOPICS

Module 1 – Additional Analytical Tools
Module 2 - Data Considerations
Module 3 - Task Packaging
Module 4 - Sustaining the Analysis
Module 5 - Case Studies
Workshop 3: Class Project

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

4. Level of Repair Analysis (LORA)
SIN 611420
Class Length: 3 days
Minimum Participants 10 / Maximum Participants 20
GSA Price (w/IFF): $805.04 per person

Description of Material to be taught:

An introduction to the Level of Repair Analysis (LORA) process as it is applied for use in Supportability Analysis. LORA is a process used to determine if corrective maintenance items should be repaired or discarded and at which maintenance level this should occur. The course provides instruction and practical application in performing LORA along with instruction on when a LORA should be performed considering both economic and operational environment criteria for optimization. Intended for anyone performing LORA in support of Product Sup-port Analysis (PSA).
Level of Repair Analysis (LORA) training teaches analytical methods used to determine where (level and/or location), and how analyzed equipment is best repaired, replaced, and/or discarded based on cost and operational availability requirements.
LORA applies to all equipment life cycle phases including research and development, systems acquisition, operations & support, and modification.
Applicable industries include, but are not limited to, Aerospace & Defense, Manufacturing, Pharmaceutical, Food Processing, Chemical Processing, Mining, Facilities, Weapon Systems, Agriculture, Alternative Energy, Energy Distribution, and Power Generation.

Introduction to LORA
- Explain the purpose of LORA.
- Explain the LORA process.
- Identify the governing LORA standards and guidance.
- Describe LORA updates across the acquisition lifecycle.

LORA in the Program Lifecycle
- Describe how the LORA results may change as data matures during the acquisition life cycle.
- Explain how LORA is used in the early design phases.
- Explain how LORA is used in the post-production/support phase.
- Explain why LCNs are assigned.
- Define the purpose of the SM&R codes and the influence that LORA has on code assignment.

LORA Program Activities
- Identify the LORA Program Activities
- Describe the process of developing a LORA Program Plan
- Discuss LORA Ground Rules and Assumptions
- Explain LORA candidate selection criteria.

Data Inputs for LORA
- Describe potential data sources to populate the LORA Model.
- Describe LORA evaluation processes.
- Identify how LORA results are utilized throughout the acquisition lifecycle.

Data Mining for LORA
- Perform data mining to produce a LORA input sheet.

Overview of LORA Modeling Software
- Identify common LORA software applications.
- Explain model input datasheets, elements, entity differences.

Identify LORA model data inputs.
Identify Sensitivity Analysis techniques.

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

5. Maintenance Task Analysis (MTA)
SIN 611420
Class Length: 3 days
Minimum Participants 10 / Maximum Participants 20
GSA Price (w/IFF): $805.04 per person

Description of Material to be taught:

An introduction to Maintenance Task Analysis (MTA) that provides participants with the instruction and practical experience needed to determine support resource requirements for acquired systems, equipment, and high-value physical assets. This course offers an overview of Task Analysis processes, using guidance from the SAE-GEIA-STD-0007 and the SAE-TA-STD-0017. The course also provides insight into the role of MTA within the Defense Acquisition Management System (DoD Instruction 5000). Intended for experienced logisticians and supportability professionals.

Supportability, PSA, and LPD
- Identify the flow of information within the Supportability Analysis (S Analysis) Process
- Define each of the S Analysis Processes
- Describe the growth of available LPD with respect to the System Design

Data from FMECA, RCM, and LORA
- Describe MTA's role in Supportability.
- Define FMECA
- Describe the content of the LSA-056 Report
- Describe Fault Tree Analysis
- Define Inherent Reliability
- Provide an overview for the various RCM Tasks
- Describe LORA Process and the associated evaluations.

Maintenance Task Analysis Process/Exercise
- Identify the main (direct) inputs for MTA.
- Discuss the MTA /FMECA/RCM related data.
- Identify MTA related Documents.
- Explain the MTA Process Steps
- Explain MTA Ground Rules & Assumptions.
- Describe Task Code Generation
- Describe MTA Authoring Guidelines
- Identify MTA outputs.
- Define the resources considered in the MTA.
- Perform MTA

LSA-019, 024 Reports
- Describe the content of the LSA-019 Report
- Discuss the Review Guide for a Task Analysis Report
- Describe the content of the LSA-024 Report
- Discuss the Review Guide content for a Maintenance Plan Report.
- Describe the quality assurance requirements for maintaining the Maintenance Plan
- Discuss Common Data Elements among LSA-056, LSA-019, and LSA-024.
- Discuss the roles and responsibilities of personnel assigned to the Fleet Support Team (FST)

Contracting for MTA
- Define Logistics Product Data (LPD)
- Identify LPD Guidance Documents.
- Define Data Item Description (DID)
- Identify Commonly used DIDs for LPD and for LPD Summaries

Identify Common Entries on the Contract Requirements Data List (CDRL)

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

6. Maintenance Planning (MP)
SIN 611420
Class Length: 3 days
Minimum Participants 10 / Maximum Participants 20
GSA Price (w/IFF): $805.04 per person

Description of Material to be taught:

The MP Course provides participants with an introduction to maintenance planning processes, including supportability design activities that directly affect life cycle Maintenance Planning. Participants will gain the instruction and practice to apply life cycle management processes to acquired systems, equipment, and high-valued physical assets. This course also provides practitioners with the fundamental philosophy and basic principles required to identify, understand, and participate in Maintenance Planning over the life cycle. Introduction to Product Support Analysis.

Define Logistics Product Data (LPD)
Identify LPD Guidance Documents
Explain the Contracting Flow
Define Data Item Description (DID)
Identify Commonly used DIDs for LPD and for LPD Summaries
Identify Common Entries on the Contract Requirements Data List (CDRL)

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

7. EDCAS – Basic Level Training Course
SIN 611420
Class Length: 4 days
Minimum Participants 6 / Maximum Participants 12
GSA Price (w/IFF): $1,718.14 per person

Description of Material to be taught:

Designed to train students in LCC analysis and how this can be used for Trade-Off evaluations and Level of Repair Analysis. Using the most recent release of EDCAS it will give a large amount of hands-on experience in actual use of the EDCAS mod-el. Using the most recent release of EDCAS it will give a large amount of hands-on experience in actual use of the EDCAS model. Each student will gain an understanding in the basic concepts of the model, to have an appreciation of the underlying mechanisms of EDCAS and be capable of making rational assessments of how to frame a problem and when to use the model, and how to interpret its outputs.

Course Content:

Modeling Foundation
- Why use and what are models?
- Model problem simplification.
- Data Quality
- Finance for modeling.

LCC, Trade-Off and LORA
- Modeling Approaches
- Non-Economic LORA Decision Tree

Principles of EDCAS
- EDCAS Features and how it works.
- The Input Data – example min data set
- Output data.

EDCAS Navigation
- Demonstrations + Practical exercises
- Resources + Systems
- Sites/Units + Environment
- Scenarios + Run
- The LCC Output Data and Reports and how to analyze their data.

Using EDCAS
- LCC model + Trade-Offs
- Managing a Modeling Project
- Bulk data loading
- EDCAS for Front End Analysis: Trade-Off modelling
- LORA Introduction
- Level Of Repair Analysis practical
- Sensitivity Analysis intro and practical

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

8. MAAP – Basic Level Training Course
SIN 611420
Class Length: 5 days
Minimum Participants 6 / Maximum Participants 12
GSA Price (w/IFF): $1,909.57 per person

Description of Material to be taught:

Designed to train students at a basic level in LCC analysis to enable them to become a productive analyst/modeler. The main objectives of this course are to give each student: an introductory understanding in the basic concepts of LCC modeling and analysis, an appreciation of MAAP functionality, and experience of using MAAP. These objectives are consolidated via the practical exercises of navigation, bulk data loading, and model building to enable the students to make rational assessments of how and when to use the MAAP for comparative or absolute LCC modeling, and how to interpret its outputs.

Course Content:

Modeling Foundation
- Why use models?
- Modeling Decision Process
- Problem Framing – practical exercise

LCC - introduction
- Supportability Audit
- Model Types + Time value of money and finance.
- Cost Breakdown Structures – practical exercise

MAAP Basic Functionality
- How MAAP Works
- Maintenance: Unscheduled, Scheduled, and Contractor
- Existing Resources

Data and MAAP Inputs and Outputs
- A simple dataset, the Min Dataset depends upon the problem definition.
- Major Model driving variables, and data sources.

MAAP Navigation and building a model – with exercises.
- Parts and other Resource types
- System Structure + Maintenance Events (ME) + ME Resources
- Environment: Support Structure, Environmental Constants
- Scenario: Systems at Units, Op Events, Event Sequence, CLS, Other Costs

MAAP Outputs – with exercises
- Reviewing Input Data
- Analyzing Output data, charts, and output database

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

9. Advanced Tempo – Time – based Spares Optimization using Tempo.
SIN 611420
Class Length: 4 days
Minimum Participants 6 / Maximum Participants 12
GSA Price (w/IFF): $1,718.14 per person

Description of Material to be taught:

Designed to extend the student from a basic level Tempo user to an advanced spares optimization analyst cable to of addressing complex time-based modelling problems. Students should have between 3 to 6 months active use of VMetric/Tempo modelling before this course. The main objectives of this course are to give each student: a solid understanding of the time-based modelling features not covered in the Basic Tempo course, and an insight into advanced spares modelling techniques. The user is stretched through practical exercises, with built-in questions, to develop a rounded very capable spares modeler/analyst.

Course Content:

Tempo Introduction
- Time based optimization – Tempo Concepts
- How Tempo differs from Steady State Models
- Tempo Benefits
- Time Based Phenomena
  - Parts Data and System Configuration
  - Fleet Size, Op Rate and Units

Tempo - How it Works.
- Principles
- Tempo vs VMetric, understanding the impact.

Tempo Navigation
- Parts Data Change v Time – practical exercise
- Tech Life data – practical exercise
- Units Data Change v Time – practical exercise
- Population and Op Rate – practical exercise
- Scenario Evolutions – practical exercise

Advanced Spares Modelling Topics
- Initial Provisioning and Planning
- Mid Life Upgrade + Obsolescence Management including Lifetime Buy
- Interim Contractor Support + Operational Deployments

Fleet Transition to a Replacement System
Sensitivity Analysis – practical exercise
Planning - using SWOT + 3 Point Estimating
Spares modelling – Land Fixed/Mobile, Sea and Air Environments
Active Reports and Charts

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

10. Basic Tempo – Spares Optimization using Tempo – Basic Level Training Course
SIN 611420
Class Length: 4 days
Minimum Participants 6 / Maximum Participants 12
GSA Price (w/IFF): $1,718.14 per person

Description of Material to be taught:

Designed to train students at a basic level in spares optimization to enable them to become a productive analyst/modeler. The main objectives of this course are to give each student an understanding in the basic concepts of the model, have an appreciation of the underlying mechanisms of Tempo, be capable of making rational assessments of how and when to use the model, and how to interpret its outputs. This course instructs students on the most recent release of Tempo, provides a large amount of hands-on experience in building and analyzing spares basic optimization models without time-based phenomenon.

Course Content:

Why Spares Modeling?
When is spares modeling needed?
What modeling methods exist?

How Tempo Works:
Understanding Availability and Back Orders
Optimization basics
Multi Indenture, and Multi-echelon
Support System structures and Repair Policy
Special Cases

Data and Tempo:
Minimum data set, and cost escalation using indices.
Import/Export

The Tempo User Interface Navigation:
The Input Data, with practical exercises
Parts and Systems
Units
Environments
Scenarios and Run Options
Active Reports and Active Charts
The Output Reports & How to Analyze the Data

Using Tempo:
Database Backup and Restore
Data Importing
Why Refine a model
Model Management

Materials included with Price: Electronic copies of all training materials and exercises and Electronic Completion Certificate

11. Basic VMetric – Spares Optimization using VMetric.
SIN 611420
Class Length: 3 days
Minimum Participants 6 / Maximum Participants 12
GSA Price (w/IFF): $1,196.47 per person

Description of Material to be taught:

Designed to train students at a basic level in spares optimization to enable them to become a productive analyst/modeler. The main objectives of this course are to give each student an understanding in the basic concepts of the model, have an appreciation of the underlying mechanisms of VMetric, be capable of making rational assessments of how and when to use the model, and how to interpret its outputs. This course instructs students on the most recent release of VMetric, provides a large to train students at a basic level in spares optimization to enable them to become a productive analyst/modeler.

Course Content:

Why Spares Modeling?
- When is spares modeling needed?
- What modeling methods exist?

How VMetric Works:
- Understanding Availability and Back Orders
- Optimization basics
- Multi Indenture, and Multi-echelon
- Support System structures and Repair Policy

Data and VMetric:
- Minimum data set, and cost escalation using indices.
- Import/Export

The VMetric User Interface Navigation:
- The Input Data, with practical exercises
- Parts and Systems
- Units
- Environments
- Scenarios and Run Options
- Active Reports and Active Charts
- The Output Reports & How to Analyze the Data

Using VMetric:
- VM Simulation
- Database Backup and Restore
- Data Importing
- Why Refine a model
- Model Management

SIN	Manufacturer Name	MFR Part No	Product Name	Product Descriptions	Unit of Issue	GSA (w/IFF)
511210	ANDROMEDA SYSTEMS INC	Perpetual Software EDCAS - 1st Seat	Perpetual Software EDCAS - 1st Seat	Perpetual Software EDCAS is a life cycle cost and level of repair model whose interface enables analysts to quickly portray and compare alternative hardware design or acquisition options. It can be used for any hardware decision with downstream or life cycle economic implications. It is sensitive to the cost implications of all kinds of hardware design decisions, including both hardware and manpower aspects. Since the model is defined in terms of real economic costs and marginal cost definitions, decision makers benefit from full knowledge of real costs and real savings EDCAS is useful for comparative analysis in the acquisition and in-service phases, where more mature and dependable data make possible highly credible cost comparisons between available options. EDCAS is designed to identify which among several equipment design alternatives will give the lowest life cycle cost (LCC), assuming that each alternative enjoys the most cost-effective support arrangements possible. Accordingly, the model's first task is to determine for each component of a given system the level of repair (LOR) solution yielding the lowest LCC. At heart, therefore, EDCAS is an excellent LOR analysis system. EDCAS introduces a highly intuitive graphical user interface, making the advanced features of this model accessible. In addition, it enables simultaneous consideration of multiple equipment's, derives component failure rates from the frequencies of scheduled and unscheduled maintenance events, and adds many other new features. And because the results of an EDCAS analysis come in the form of a relational database, the scope for highly effective, customized reports is almost limitless. It also takes into account the requirement for spare components at operating and support locations to satisfy operational availability targets expressed at the system and equipment levels. EDCAS allows flexibility in modeling the environments in which a system will be deployed and supported. Any number of distinct types of operating organizations can be defined and grouped as named operating units housed at named sites (geographical locations). In a given analytical project, any number of units can be combined as a deployment group: each unit is described in terms of the number of operating organizations it owns, the number of systems per organization and their operating rates. Each operating and support unit draws direct support from a single higher-echelon organization EDCAS provides a range of standard reports containing LCC estimates, LOR solutions, spares recommendations and various resource profiles. There is also abundant scope for user-defined reports by using the facilities of the Microsoft Access database management system. You can also export data from the database and produce reports in any other software tool that can accept imported data.	EA	$15,000.00
511210	ANDROMEDA SYSTEMS INC	Perpetual Software MAAP - 1st Seat	Perpetual Software MAAP - 1st Seat	The Monterey Activity-based Analytical Platform, or MAAP, is a total ownership cost model for major systems. Organizations whose business includes developing, acquiring, operating, or supporting hardware systems of various kinds, such as aircraft, ships, land-based vehicles, or industrial plant, repeatedly find themselves making high-stakes decisions about system capabilities and resource demands. Their success hangs on the quality and timeliness of such decisions. High-stakes decision-makers know exactly what they need: exactly the right information in time to weight the odds in their favor. However, all too often the available information is unstructured, or reliance has to be placed in teams attempting to mine information from islands of automation. Some of the cost components associated with system ownership are immediate but many are downstream. The sum of immediate and downstream costs, the total ownership cost, is the key variable in any cost-benefit projection. However, a very high workload in downstream cost estimation has led to an excessive reliance on broad approximations. The result has been an unnecessarily high degree of uncertainty in cost-benefit projections, reducing their value as discriminators in major decisions. MAAP encompasses major systems of all kinds. MAAP can be readily customized to model the total ownership costs associated with fleets of aircraft, ships or land-based vehicles, industrial plant, information systems, organizational elements, or any of these things in combination. MAAP is founded on logistic support analysis principles and incorporates life cycle cost analysis and	EA	$150,000.00

				activity-based costing methods. MAAP accounts for all kinds of resource-consuming activities under varying assumptions about a system's usage. Cost and resource profiles can be generated platform-by-platform, fleet-by-fleet, year-by-year, or day-by-day over any desired period. The result is an ability to assess the immediate and downstream cost impacts of proposed changes in operational activity, or the immediate and downstream operational impacts of budgetary changes. MAAP also provides visibility of the phased linkage between operating and support costs: • Operational Planning - MAAP identifies the cost implications of alternative system deployment and usage possibilities. • Determination of Support Arrangements - MAAP facilitates identification of highly competitive in-house and/or external maintenance, supply, and management arrangements to support specified levels of system operation. • Resource Management - MAAP gives a full picture of the resource use profiles associated with system acquisition, phased introduction, operation, and support • Separate Operating and Support Scenarios - Operating and support sites can be separately identified and modeled. In the system maintenance sphere, for example, MAAP provides a capability to model four in-house and/or contractor levels, with local or regional intermediate and depot facilities. MAAP addresses system phase-in/phase-out profiles, and can track individual end-items, day by day, over the operating life. • Flexible Cost Accounting - MAAP accounts fully for all the costs that arise over the life cycle. Costs can be attributed to individual end-items or groups of them, as well as the system. MAAP uses over 600 basic cost definitions. These can be likened to cost "atoms", which can be combined into customer-specified "molecules". In this way virtually any cost breakdown structure can be accommodated. MAAP can be delivered with several different cost structures already "wired in". • Use in Source Selection - An issue in source selection is the availability of reliable data. MAAP features an input processor module (IPM) that can be distributed to prime manufacturers or sub-system vendors, requiring them to provide highly focused and detailed information about their products in a format that permits timely comparative analysis. • Reporting - In addition to cost reporting using the customer-specific charts of accounts described above, MAAP can generate a great variety of standard reports addressing maintenance planning, level of repair analysis, support and test equipment, initial and replenishment spares, procurement schedules, manpower and training, and facilities requirements. MAAP also makes abundant provision for user-definable reports. • Connectivity - MAAP's open architecture facilitates integration with a customer's current information systems. MAAP is the ideal tool for extracting value from existing data warehouses, ensuring a high return on prior data collection investments. In a military context, MAAP can interface with weapon system databases and logistic support analysis records. MAAP also allows direct access to the capabilities of other TFD and third-party analytical tools. 1. Operating and Support Environment - The environment area is concerned with the operating and support conditions under which hardware systems will be used and maintained. Descriptions can be of the most basic kind – perhaps no more than the number of systems, the number of sites and the system usage rates. Alternatively, the database can store far more detailed and complex data sets. The environment area in MAAP supports accurate depiction of maintenance capabilities at support sites as well as deployment and usage at operating bases. Environment data also hold the key to the problem of optimization across multiple systems. Different aircraft types in a mixed fleet, for example, usually have radios and other avionic components in common. With MAAP, optimization of common components across a "fleet of fleets" is a reality. 2. Project - The project area of the database contains information specific to the requirements of a particular program. For example, the same hardware system may be sold to several different customers. Such customers may require that various part identification schemes be adopted specifically for their use because they work properly with their legacy software systems. Project data can also include rates used in the computation of costs or other values, targets such as budget constraints, operational availability and fill		

				rates, delay time constraints, and constants such as the length of the life cycle. The project area is also the focal point for relationships between end-items and their operating and support environments. 3. Outputs - The TFD data model also makes explicit provision for storing the outputs of analytical processes. Ultimately, this is what turns data into information. Typical outputs include level of repair policy decisions, total ownership cost estimates and resource requirements. The modeling process, culminating in MAAP's determination of total ownership costs, can be viewed as a chain of input-output relationships. For example, a reliability prediction model might produce outputs for use in running a level of repair model, whose outputs, in turn, serve as inputs to a spare's optimization model. The outputs of all these models are potential inputs to the MAAP engine.		
511210	ANDROMEDA SYSTEMS INC	Perpetual Software VMetric 1st Seat	Perpetual Software VMetric 1st Seat	VMetric is a multi-echelon, multi-indenture stock optimizing model you can use to model problems with unlimited echelons of support, hardware systems of unlimited size and unlimited indenture levels. VMetric also performs joint optimization of multiple end-items deployed at any number of operating sites, each of which may be uniquely defined. Spare parts are a key ingredient of effective system support. There is no question that initial stocks account for a significant proportion of total life cycle costs. Also, intelligent management of stock replenishment is a powerful and flexible means of improving performance and reducing costs over the operating life of a system. VMetric is a spares stockage optimization model that computes the least costly quantity and mix of spare parts under a variety of user-definable operating and support assumptions. It handles multiple systems at different operating sites with unlimited flexibility to define operating and support structures. Both demand forecasting and operational simulation add-ons are available, and all data inputs and outputs can be interfaced to existing data sources and uses in a short time and with a minimum of cost. VMetric uses a simple indentured parts list to define multiple systems that can be deployed at multiple operating sites. Sites are grouped into projects, and a user can define as many operating sites, support sites, and systems as desired. Different numbers and types of systems can be deployed from one site to the next, and there is no limit to the number of parts and indenture levels characterizing a given system. This feature makes VMetric extremely useful for the provisioner faced with making stock recommendations for all a system's components, from large insurance items and LRUs down to the least expensive piece-parts. VMetric allows each operating site or group of sites to have its own individual mix of systems, operating profile, set of demand rates, and support structure. The range of part-types to stock, quantities to stock and the geographic distribution across operating and support sites are all optimally determined. The model provides recommended quantities by location, as well as costs, consumption rates and economic order quantity (EOQ) results, including order quantity, reorder point, amount on-hand and in-repair, numbers of back orders, and orders per year. VMetric can be run to any combination of five target values: operational availability, spares budget, fill rate, the average days delay per demand and the slope of the availability versus cost curve. The user can also find minimum cost or maximum profit solutions by inspection. VMetric produces an extensive set of standard reports. They include a comprehensive summary, a trace of the operational availability achieved for each increment of cost, an assessment of the net benefit achieved by adding spares, listings of spares recommended for individual sites (including a comprehensive array of performance measures and EOQ results), a part-oriented spares listing, a record of the system structure to which spares recommendations relate, and a list of automatically detected data anomalies that may affect the validity of a run. Graphs of spares cost versus operational availability and net benefit are also available. Different operating or business environments give rise to different decision criteria and nomenclature. Even though they both operate aircraft, it would be surprising for an airline and an air force to have precisely the same set of concerns. However, since the economic fundamentals are the same everywhere, the VMetric approach to spares optimization has general applicability.	EA	$40,000.00

511210	ANDROMEDA SYSTEMS INC	Perpetual Software Tempo-1st Seat	Perpetual Software Tempo-1st Seat	Perpetual Software Tempo, although based on the modern version of the VARI-METRIC calculating engine, takes account of both predictable changes in hardware and foreseeable changes in operating and support scenarios. Unit price changes, reliability improvement, configuration changes, lead time improvements, basing changes, operating Tempo and even Ao target changes are all foreseen and accounted for. For the first time, the impact of technological obsolescence and the remaining useful life of parts can be applied to directly influence future spares purchasing decisions and minimize waste from buying excessive parts that will be retired early. A Tempo-optimized solution is superior to those provided by steady-state tools because it: • Explicitly handles inevitable changing scenarios • Avoids the errors implicit in steady-state models including over-stocking of life-limited and long-lead time parts • Maximizes return on investment and avoids waste due to market-driven obsolescence • Optimizes timing of procurement to match fleet build-up, re-basing and run-down for lowest Life Cycle Inventory Cost • Deals explicitly with time, eliminating the drudgery of hand-made multi-period calculations	EA	$75,000.00

All Pricing Includes Installation and 12 months of Technical Support.

Perpetual Software Maintenance and Support will be billed at 18% of the current cost of the software license.