GENERAL SERVICES ADMINISTRATION
Federal Supply Service
Authorized Federal Supply Schedule Price List
On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!, a menu-driven database system. The INTERNET address GSA Advantage! is: GSAAdvantage.gov.

Multiple Award Schedule

Contract number: GS-35F-188GA

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at fss.gsa.gov.

Contract period: January 24, 2017 through January 23, 2022

Delligatti Associates, LLC
7428 Woodward Springs Drive
Pearland, TX 77584
DUNS: 079784770 CAGE Code: 7CYG4
Lennith (Lenny) Delligatti
ldelligatti@delligattiassociates.com
V: 281-715-0061 F: 281-715-0061

Contractor's internet address/web site where schedule information can be found: www.delligattiassociates.com

Business size: Small

1a. Table of awarded special item number(s) with appropriate cross-reference to item descriptions and awarded price(s).

SIN 611420 Information Technology Training

SIN 54151S Information Technology Professional Services

SIN OLM - Order Level Materials

SIN	SERVICE PROPOSED	GSA PRICE (including IFF)
54151S	Model-Based Systems Engineering (MBSE) Consulting Services	$138.12

SIN	Course Title	Course Length	Minimum Participants	Maximum Participants	GSA PRICE (including IFF)
611420	The OCSMP Accelerator™ SysML Training Course (live online or on-site)	5 days	1	20	$833.33 per participant (or a flat fee of $8,333.00 for less than 10 participants)
611420	The OOSEM Accelerator™ MBSE Methodology Training Course (live online or on-site)	4 days	1	20	$799.00 per participant (or a flat fee of $7,990.00 for less than 10 participants)

1b.

SIN	SERVICE PROPOSED	GSA PRICE (including IFF)
54151S	Model-Based Systems Engineering (MBSE) Consulting Services	$138.12

1c.

Service Title: Model-Based Systems Engineering (MBSE) Consulting Services

Service Provider Minimum Qualifications Requirement:

- 5 years of systems or software engineering experience plus B.S. in a STEM field, or
- 2 years of systems or software engineering experience plus M.S. in a STEM field, or
- Ph.D. in a STEM field

Service Description:

Project-specific MBSE consulting delivered on-site at the client's facility and remotely via online meetings, phone, and e-mail. The scope of work is defined jointly by the client and Delligatti Associates and can include any combination of the following tasks:

- Provide guidance on applying the INCOSE (International Council on Systems Engineering) Object-Oriented Systems Engineering Method (OOSEM) to create a system model in a system modeling tool
- Provide guidance and assist with representing project stakeholders and their concerns in a system model to define the model purpose and model scope
- Provide guidance and assist with defining mission requirements
- Provide guidance and assist with creating a behavioral model and a structural model of the system context for a system of interest
- Provide guidance and assist with defining system requirements
- Provide guidance and assist with creating a behavioral model and a structural model of the system architecture for a system of interest
- Provide guidance and assist with tracing system requirements to system architectural design elements
- Provide guidance and assist with allocating system behaviors to system structures
- Provide guidance and assist with developing system model variants
- Provide guidance and assist with integrating system modeling tools with product lifecycle management (PLM) tools, 3D structural computer-aided design (CAD) tools, requirements management tools, and equation-solving tools
- Provide guidance and assist with creating parametric models to perform specialty engineering analyses
- Provide guidance and assist with creating parametric models to perform trade studies to evaluate candidate physical architectures with respect to selected measures of effectiveness (MOEs)
- Provide guidance and assist with creating executable structural and behavioral system models
- Provide guidance and assist with creating model libraries for reuse across multiple projects
- Provide guidance and assist with developing a customized modeling method, a domain-specific language (DSL) profile, and a system model template to kick-start new modeling projects across the client's organization
- Provide guidance and assist with creating test contexts, test configurations, and test cases for system behaviors to verify system requirements
- Provide guidance and assist with translating the design information found in existing systems engineering work products into a system model
- Provide guidance on exchanging system model information with other engineering disciplines (e.g., software, electrical, structures, reliability, human factors)
- Provide guidance and assist with transforming system models into HTML webpages for use by stakeholders
- Provide guidance and assist with creating document templates to autogenerate systems engineering work products from a system modeling tool
- Answer project-specific modeling language questions
- Answer project-specific modeling method questions
- Answer project-specific modeling tool questions
- Review the client's system models periodically and provide verbal and written feedback

Course Title: OCSMP Accelerator™ SysML Training Course (Live Online or On-Site Delivery)

Objectives

- Enable participants to achieve the SysML proficiency they need to create effective systems models as members of a model-based systems engineering (MBSE) team
- Prepare candidates for the *OMG Certified Systems Modeling Professional (OCSMP) Model User* (Level 1) certification exam
- Prepare candidates for the *OMG Certified Systems Modeling Professional (OCSMP) Model Builder: Fundamental* (Level 2) certification exam

Duration

- 37.5 hours (7.5 hours per day for 5 consecutive days, not including lunch)

Training materials/equipment (provided by Delligatti Associates):

- An electronic copy of the SysML model of the *DellSat-77 Satellite* example system from the course textbook in XMI format (for all commercial-grade modeling tools) and in the MagicDraw native file format
- Electronic copies of all figures from the course textbook in Visio format
- 95 OCSMP certification exam sample questions, covering all ten course topics
- 30-question end-of-course sample test. This test will be delivered to all participants on the last day of the course under simulated testing conditions.
- "Elements of Definition versus Elements of Usage" study aid
- "SysML Training Resources Guide" with links to additional learning resources on the internet
- Course completion certificate. This certificate is valid documentation to claim recertification Professional Development Units (PDUs) for technical certifications (e.g., INCOSE CSEP, IEEE CSDP).

Training materials/equipment (provided by Client):

- Course textbook: *SysML Distilled: A Brief Guide to the Systems Modeling Language*. (Optional, but recommended for each participant. This book may be purchased from any retail bookseller.)
- Classroom with sufficient desk space for each participant to take notes
- Participant laptop computers. (Optional, but recommended for each participant)
- Whiteboard
- Multimedia projector for the instructor's computer

Scope of Coverage

This course consists of the following 14 modules:

Module	Topic	Duration
1	Block Definition Diagrams (Part 1)	3:30 hr
2	Block Definition Diagrams (Part 2)	3:30 hr
3	Internal Block Diagrams	3 hr
4	Use Case Diagrams	2 hr
5	Activity Diagrams (Part 1)	3 hr
6	Activity Diagrams (Part 2)	3 hr
7	Sequence Diagrams (Part 1)	3 hr
8	Sequence Diagrams (Part 2)	2 hr
9	State Machine Diagrams (Part 1)	2:30 hr

10	State Machine Diagrams (Part 2)	2:30 hr
11	Constraints and Parametric Diagrams	2 hr
12	Package Diagrams	2 hr
13	Requirements Diagrams	2 hr
14	Allocation Relationships	1:30 hr

Detailed breakdown of concepts by topic:

Module 1: Block Definition Diagrams (Part 1)

Coverage: purpose of a BDD, frame of a BDD, elements of definition versus elements of usage, blocks, part properties, reference properties, value properties, constraint properties, standard ports, interfaces, nonatomic flow ports, flow specifications, flow properties, atomic flow ports, operations, receptions, signals

Module 2: Block Definition Diagrams (Part 2)

Coverage: reference associations, composite associations, generalizations, dependencies, actors, primitive value types, structured value types, enumerations, constraints, constraint blocks, comments, designing to abstractions

Module 3: Internal Block Diagrams

Coverage: purpose of an IBD, frame of an IBD, part properties, reference properties, connectors, flow ports, standard ports, port compatibility, item flows, nested properties, dot notation, encapsulation

Module 4: Use Case Diagrams

Coverage: purpose of a use case diagram, use cases, use case specifications, use cases versus scenarios, frame of a use case diagram, system boundary, actors, associations, base use cases, included use cases, extending use cases

Module 5: Activity Diagrams (Part 1)

Coverage: purpose of an activity diagram, frame of an activity diagram, activities, object tokens, control tokens, basic actions, opaque expressions, object nodes, pins, activity parameters, streaming versus nonstreaming, object flows, control flows, criteria for initiating an action

Module 6: Activity Diagrams (Part 2)

Coverage: call behavior actions, send signal actions, accept event actions, wait time actions, absolute time events, relative time events, initial nodes, activity final nodes, flow final nodes, decision nodes, merge nodes, fork nodes, join nodes, activity partitions

Module 7: Sequence Diagrams (Part 1)

Coverage: purpose of a sequence diagram, frame of a sequence diagram, interactions, lifelines, selector expressions, event occurrences, messages, message send occurrences, message receive occurrences, asynchronous messages, synchronous messages, reply messages, create messages, creation occurrences, delete messages, destruction occurrences, execution specifications, execution start occurrences, execution termination occurrences, valid traces versus invalid traces

Module 8: Sequence Diagrams (Part 2)

Coverage: time constraints, duration constraints, state invariants, combined fragments, operands, *opt* interaction operator, *alt* interaction operator, *loop* interaction operator, *par* interaction operator, interaction uses, actual gates, formal gates

Module 9: State Machine Diagrams (Part 1)

Coverage: purpose of a state machine diagram, frame of a state machine diagram, state machines, simple states, *entry* behavior, *do* behavior, *exit* behavior, composite states, substates, final states, transitions, triggers, guards, effects, self-transitions, run-to-completion step semantics, external transitions versus internal transitions

Module 10: State Machine Diagrams (Part 2)

Coverage: signal events, receptions, call events, operations, absolute time events, relative time events, change events, initial pseudostates, junction pseudostates, regions

Module 11: Constraints and Parametric Diagrams

Coverage: blocks and constraint blocks (on BDDs), purpose of a parametric diagram, frame of a parametric diagram, constraint properties, constraint parameters, value properties, nesting notation versus dot notation, binding connectors, noncausal nature of constraints

Module 12: Package Diagrams

Coverage: purpose of a package diagram, frame of a package diagram, packages, namespaces, namespace containment, crosshair notation, nesting notation, fully qualified name strings, relative qualified name strings, dependencies, package import relationships, models, model libraries, profiles, stereotypes, views, viewpoints, conform relationships

Module 13: Requirements Diagrams

Coverage: purpose of a requirements diagram, frame of a requirements diagram, requirements, containment relationships, trace relationships, derive requirement relationships, refine relationships, satisfy relationships, verify relationships, direct notation, compartment notation, callout notation, matrices, tables, rationale

Module 14: Allocation Relationships

Coverage: purposes of allocation relationships, behavioral allocations, structural allocations, requirements allocations, direct notation, compartment notation, callout notation, matrices, tables, allocation activity partitions, allocation of definition versus allocation of usage

Additional Information

The course fee does not include the cost of the OCSMP certification exam. Each participant who wishes to pursue this certification after the course ends must individually schedule and pay for the exam via the Pearson Vue website. The instructor will provide information on how to register for the exam on the last day of the course.

Course Title: OOSEM Accelerator™ MBSE Methodology Training Course (Live Online or On-Site Delivery)

Objectives

- Become a model-based systems engineering (MBSE) advocate, capable of articulating to organizational decision makers the roots of the return on investment (ROI) from practicing MBSE
- Apply a modeling method, OOSEM (INCOSE's Object-Oriented Systems Engineering Method), to create a behavioral and structural model of a system of interest in a standardized modeling language, SysML (OMG's Systems Modeling Language), using a dedicated SysML modeling tool, No Magic's MagicDraw

Duration

- 28 hours (7 hours per day for 4 consecutive days, not including lunch)

Training materials/equipment (provided by Delligatti Associates):

- Training course handbook
- SysML model of the OOSEM modeling method
- System model template
- CSV file: “DellSat-77 Satellite System Requirements”
- SysML models of the DellSat-77 Satellite System (for each course activity)

- Course completion certificate. This certificate is valid documentation to claim recertification Professional Development Units (PDUs) for technical certifications

Training materials/equipment (provided by Client):

- Classroom
- Multimedia projector for the instructor's computer
- Computer for each participant, loaded with MagicDraw and the following plug-ins: SysML, Cameo Simulation Toolkit, Requirements Modeler, and CSV Import. (30-day evaluation licenses for these products are available from No Magic, Inc. and can be used for this course.)

Scope of Coverage

Topics and activities include:

- The roots of the ROI from practicing MBSE
- The difference between a SysML modeling tool (e.g., MagicDraw) and a diagramming tool (e.g., Visio)
- The design activities in the Object-Oriented Systems Engineering Method (OOSEM) modeling methodology
- Creating an effective model structure for partitioning design elements and representing that model structure on SysML package diagrams
- Capturing stakeholders and their concerns in a SysML model
- Modeling system use cases and actors with SysML use case diagrams
- Creating SysML activity diagrams to graphically represent system use case specifications
- Creating a structural model of a system's domain and representing it on SysML block definition diagrams (BDDs) and internal block diagrams (IBDs)
- Modeling system requirements and traceability relationships with SysML requirements diagrams, matrices, and tables
- Creating a structural model of a system's architecture and representing it on SysML BDDs and IBDs
- Creating a behavioral model of a system through decomposition of use case behaviors
- Allocating system behaviors to system structures
- Modeling interfaces and object flow in dynamic and static views of the system
- Creating SysML state machine diagrams to represent the state-based behavior of system structures
- The mechanics of operating the MagicDraw SysML modeling and simulation tool

---

2. Maximum order. 54151S: $500,000; 611420: $250,000; OLM: $250,000

3. Minimum order. $100.00

4. Geographic coverage (delivery area). 50 United States; District of Columbia; Puerto Rico

5. Point(s) of production (city, county, and State or foreign country). Not Applicable

6. Discount from list prices or statement of net price. Net prices set forth above.

7. Quantity discounts. Additional 1% discount off GSA rate for single task orders of greater than $50,000.

8. Prompt payment terms. Net 30

9a. Government purchase cards are accepted at or below the micro-purchase threshold.

9b. Government purchase cards are accepted above the micro-purchase threshold.

10. Foreign items (list items by country of origin). None.

11a. Time of delivery. (Contractor insert number of days.) As negotiated with ordering agency and the contractor.

11b. Expedited Delivery. As negotiated with ordering agency and the contractor.

11c. Overnight and 2-day delivery. As negotiated with ordering agency and the contractor.

11d. Urgent Requirements. As negotiated with ordering agency and the contractor.

12. F.O.B. point(s). Destination.

13a. Ordering address.
7428 Woodward Springs Drive
Pearland, TX 77584

13b. Ordering procedures: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3.

14. Payment address.
7428 Woodward Springs Drive
Pearland, TX 77584

15. Warranty provision. None.

16. Export packing charges, if applicable. Not Applicable

17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level). None.

18. Terms and conditions of rental, maintenance, and repair (if applicable). Not Applicable

19. Terms and conditions of installation (if applicable). Not Applicable

20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable). Not Applicable

20a. Terms and conditions for any other services (if applicable). Not Applicable

21. List of service and distribution points (if applicable). Not Applicable

22. List of participating dealers (if applicable). Not Applicable

23. Preventive maintenance (if applicable). Not Applicable

24a. Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants). Not Applicable

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

25. Data Universal Number System (DUNS) number. 079784770

26. Contractor is registered in the SAM database: Current.