Commercial Information Technology Equipment, Software and Services
Schedule Contract MAS

Special Item No. 511210 Term Software License
Special Item No. 511210 Perpetual Software License
Special Item No. 54151 Maintenance of Software as a Service
Special Item No. 611420 Training Courses

Contract Number: 47QTCA19D008W
For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at http://www.fss.gsa.gov

Contract Period: March 31, 2019 – March 31, 2024
Pricelist current through 3/31/2021

504 Beaver Street
Sewickley PA
Phone-1-877-297-4646
Fax-1-412-253-9378
www.simio.com

Contractor’s Administration Source:
Molly Arthur
marthur@simio.com

Additional POC:
Howard Coltin
hcoltin@simio.com

Business Size: Small
1a. Table of awarded the special item number with appropriate cross-reference to item descriptions and awarded price.
   Special Item No. 511210 Term Software License
   Special Item No. 511210 Perpetual Software License
   Special Item No. 54151 Maintenance of Software as a Service
   Special Item No. 611420 Training Courses

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession affecting price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply.
## Software

<table>
<thead>
<tr>
<th>Software</th>
<th>Perpetual w/ Maintenance† (Product Code) [SIN Number]</th>
<th>One-Year Subscription‡ (Product Code) [SIN Number]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simio Design Edition Node Lock Version</td>
<td>$7,840.30 / $1,723.27 (GSA-SDENL / M) [511210 / 54151]</td>
<td>$4,479.14 (GSA-SDENLS) [511210]</td>
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<tr>
<td>Simio Design Edition Server Version</td>
<td>$11,541.56 / $2,539.14 (GSA- SDESV / M) [511210 / 54151]</td>
<td>$6,680.60 (GSA-SDESVS) [511210]</td>
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<tr>
<td>Simio Professional Edition Node Lock Version</td>
<td>$15,601.01 / $3,430.63 (GSA- SPENL / M) [511210 / 54151]</td>
<td>$8,249.87 (GSA-SPENLS) [511210]</td>
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<tr>
<td>Simio Professional Edition Server Version</td>
<td>$21,093.20 / $4,640.50 (GSA- SPESV / M) [511210 / 54151]</td>
<td>$12,733.50 (GSA-SPESVS) [511210]</td>
</tr>
</tbody>
</table>

† Simio Perpetual Licenses Include: Software Technical Support & Software Updates (Maintenance Annual Fee)
‡ Simio One-Year Subscriptions Include: Software Technical Support & Software Updates

## Simio University

<table>
<thead>
<tr>
<th>Simio Four Day Public Training</th>
<th>Price (Product Code) [SIN Number]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simio Four Day Public Training</td>
<td>Simio Standard Four (4) Day Public Classroom Training</td>
</tr>
<tr>
<td>Simio Five Day Public Training</td>
<td>Simio Extended Five (5) Day Public Classroom Training</td>
</tr>
<tr>
<td>Simio Four Day On-Site Training</td>
<td>Simio Standard Four (4) Day Training at Ordering Activity Site, Instructor T&amp;L expenses billed at-cost / per ordering activity agreement.</td>
</tr>
<tr>
<td>Simio Five Day On-Site Training</td>
<td>Simio Extended Five (5) Day Training at Ordering Activity Site, Instructor T&amp;L expenses billed at-cost / per ordering activity agreement</td>
</tr>
</tbody>
</table>

* All Software and Simio University Pricing is in USD and Manufacture Name is Simio LLC

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**How to Order**

**EMAIL:** orders@simio.com  
**CALL:** 877-297-4646 (toll free) or +1-412-528-1576  
**FAX:** 1-412-253-9378  

[Learn more at simio.com](http://simio.com)
1c. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles, experience, functional responsibility, and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate “Not applicable” for this item. “N/A”

2. Maximum order. $500,000

3. Minimum order. $100

4. Geographic coverage (delivery area). Domestic and International

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 prices are net.

7. Quantity discounts. “N/A”

8. Prompt payment terms. None

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

9b. Notification that 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 inserts number of days.) Up to Five (5) business days

11b. Expedited Delivery. The Contractor will insert the sentence “Items available for expedited delivery are noted in this price list.” under this heading. The Contractor may use a symbol of its choosing to highlight items in its price lists that have expedited delivery. None

11c. Overnight and 2-day delivery. The Contractor will indicate whether overnight and 2-day delivery are available. Also, the Contractor will indicate that the schedule customer may contact the Contractor for rates for overnight and 2-
11d. Urgent Requirements. The Contractor will note in its price list the “Urgent Requirements” clause of its contract and advise agencies that they can also contact the Contractor’s representative to affect a faster delivery. “N/A”

12. F.O.B. point(s). “N/A”

13a. Ordering address(es). Same as company address.

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

14. Payment address(es). Same as company address.

15. Warranty provision. See End User License Agreement (EULA).

16. Export packing charges, if applicable. “N/A”

17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level). “N/A”

18. Terms and conditions of rental, maintenance, and repair (if applicable). “N/A”

19. Terms and conditions of installation (if applicable). “N/A”

20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable). “N/A”

20a. Terms and conditions for any other services (if applicable). “N/A”

21. List of service and distribution points (if applicable). “N/A”

22. List of participating dealers (if applicable). “N/A”

23. Preventive maintenance (if applicable). “N/A”
24a. Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants). “N/A”

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

25. Data Universal Number System (DUNS) number. 829917736

26. Notification regarding registration in SAM.gov (formerly the Central Contractor Registration) database. Registered. CAGE Code: 5DPH8

TERMS AND CONDITIONS APPLICABLE TO TERM SOFTWARE LICENSES (SPECIAL ITEM NUMBER 511210), PERPETUAL SOFTWARE LICENSES (SPECIAL ITEM NUMBER 511210) AND MAINTENANCE AS A SERVICE (SPECIAL ITEM NUMBER 54151) OF GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY SOFTWARE

1. INSPECTION/ACCEPTANCE

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any software that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming software at no increase in contract price. The ordering activity must exercise its post acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the software, unless the change is due to the defect in the software.

2. ENTERPRISE USER LICENSE AGREEMENTS REQUIREMENTS (EULA)

The Contractor shall provide all Enterprise User License Agreements in an editable Microsoft Office (Word) format.

3. GUARANTEE/WARRANTY

a. Unless specified otherwise in this contract, the Contractor’s standard commercial guarantee/warranty as stated in the contract’s commercial pricelist will apply to this contract.

b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract. If no implied warranties are given, an express warranty of at least 60 days must be given in accordance with FAR 12.404(b)(2)

c. Limitation of Liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items. “N/A”
4. TECHNICAL SERVICES
The Contractor, without additional charge to the ordering activity, shall provide a hot line technical support number toll free 1-877-297-4646 x321 or direct 1-412-528-4455 for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available from 8:00AM to 5:00PM EASTERN TIME.

5. SOFTWARE MAINTENANCE
a. Software maintenance as it is defined:
   **Software Maintenance as an Optional Paid Product**
   Software maintenance is available with perpetual licenses (recommended but optional) or included with subscription/term licenses. This provides 24x7 access technical assistance via an on-line searchable knowledgebase, voice mail, and live discussions (during business hours) with skilled support personnel. This also includes access to software updates created during the maintenance or subscription period. SIMIO provides new releases as frequently as every third week to make new features and any required bug fixes available as expeditiously as possible. In addition, for critical issues, interim releases or work-arounds may be made available when appropriate.

b. Invoices for maintenance service shall be submitted by the Contractor on a quarterly or monthly basis, after the completion of such period. Maintenance charges must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

6. PERIODS OF TERM LICENSES (SIN 511210) AND MAINTENANCE (SIN 54151)
a. The Contractor shall honor orders for periods for the duration of the contract period or a lesser period of time.

b. Term licenses and/or maintenance may be discontinued by the ordering activity on thirty (30) calendar days written notice to the Contractor.

c. Annual Funding. When annually appropriated funds are cited on an order for term licenses and/or maintenance, the period of the term licenses and/or maintenance shall automatically expire on September 30 of the contract period, or at the end of the contract period, whichever occurs first. Renewal of the term licenses and/or maintenance orders citing the new appropriation shall be required, if the term licenses and/or maintenance is to be continued during any remainder of the contract period.

d. Cross-Year Funding Within Contract Period. Where an ordering activity’s specific appropriation authority provides for funds in excess of a 12 month (fiscal year) period, the ordering activity may place an order under this schedule contract for a period up to the expiration of the contract period, notwithstanding the intervening fiscal years.

e. Ordering activities should notify the Contractor in writing thirty (30) calendar days prior to the expiration of an order, if the term licenses and/or maintenance is to be terminated at that time.
Orders for the continuation of term licenses and/or maintenance will be required if the term licenses and/or maintenance is to be continued during the subsequent period.

7. CONVERSION FROM TERM LICENSE TO PERPETUAL LICENSE
   a. The ordering activity may convert term licenses to perpetual licenses for any or all software at any time following acceptance of software. At the request of the ordering activity the Contractor shall furnish, within ten (10) calendar days, for each software product that is contemplated for conversion, the total amount of conversion credits which have accrued while the software was on a term license and the date of the last update or enhancement.
   b. Conversion credits which are provided shall, within the limits specified, continue to accrue from one contract period to the next, provided the software remains on a term license within the ordering activity.
   c. The term license for each software product shall be discontinued on the day immediately preceding the effective date of conversion from a term license to a perpetual license.
   d. The price the ordering activity shall pay will be the perpetual license price that prevailed at the time such software was initially ordered under a term license, or the perpetual license price prevailing at the time of conversion from a term license to a perpetual license, whichever is the less, minus an amount equal to 30% of all term license payments during the period that the software was under a term license within the ordering activity.

8. TERM LICENSE CESSATION
   a. After a software product has been on a continuous term license for a period of * months, a fully paid-up, non-exclusive, perpetual license for the software product shall automatically accrue to the ordering activity. The period of continuous term license for automatic accrual of a fully paid-up perpetual license does not have to be achieved during a particular fiscal year; it is a written Contractor commitment which continues to be available for software that is initially ordered under this contract, until a fully paid-up perpetual license accrues to the ordering activity. However, should the term license of the software be discontinued before the specified period of the continuous term license has been satisfied, the perpetual license accrual shall be forfeited.
   b. The Contractor agrees to provide updates and maintenance service for the software after a perpetual license has accrued, at the prices and terms of Special Item Number 54151, if the licensee elects to order such services. Title to the software shall remain with the Contractor. “N/A”

9. UTILIZATION LIMITATIONS - (SIN 511210, AND SIN 54151)
   a. Software acquisition is limited to commercial computer software defined in FAR Part 2.101.
   b. When acquired by the ordering activity, commercial computer software and related documentation so legend shall be subject to the following: (1) Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.

(2) Software licenses are by site and by ordering activity. An ordering activity is defined as a cabinet level or independent ordering activity. The software may be used by any subdivision of the ordering activity (service, bureau, division, command, etc.) that has access to the site the software is placed at, even if the subdivision did not participate in the acquisition of the software. Further, the software may be used on a sharing basis where multiple agencies have joint projects that can be satisfied by the use of the software placed at one ordering activity’s site. This would allow other agencies access to one ordering activity’s database. For ordering activity public domain databases, user agencies and third parties may use the computer program to enter, retrieve, analyze and present data. The user ordering activity will take appropriate action by instruction, agreement, or otherwise, to protect the Contractor’s proprietary property with any third parties that are permitted access to the computer programs and documentation in connection with the user ordering activity’s permitted use of the computer programs and documentation. For purposes of this section, all such permitted third parties shall be deemed agents of the user ordering activity.

(3) Except as is provided in paragraph 8.b(2) above, the ordering activity shall not provide or otherwise make available the software or documentation, or any portion thereof, in any form, to any third party without the prior written approval of the Contractor. Third parties do not include prime Contractors, subcontractors and agents of the ordering activity who have the ordering activity’s permission to use the licensed software and documentation at the facility, and who have agreed to use the licensed software and documentation only in accordance with these restrictions. This provision does not limit the right of the ordering activity to use software, documentation, or information therein, which the ordering activity may already have or obtains without restrictions.

(4) The ordering activity shall have the right to use the computer software and documentation with the computer for which it is acquired at any other facility to which that computer may be transferred, or in cases of Disaster Recovery, the ordering activity has the right to transfer the software to another site if the ordering activity site for which it is acquired is deemed to be unsafe for ordering activity personnel; to use the computer software and documentation with a backup computer when the primary computer is inoperative; to copy computer programs for safekeeping (archives) or backup purposes; to transfer a copy of the software to another site for purposes of benchmarking new hardware and/or software; and to modify the software and documentation or combine it with other software, provided that the unmodified portions shall remain subject to these restrictions.

(5) "Commercial Computer Software" may be marked with the Contractor’s standard commercial restricted rights legend, but the schedule contract and schedule pricelist, including this clause, "Utilization Limitations" are the only governing terms and conditions, and shall take precedence and supersede any different or additional terms and conditions included in the standard commercial legend.

10. SOFTWARE CONVERSIONS - (SIN 511210 AND SIN 54151)
Full monetary credit will be allowed to the ordering activity when conversion from one version of the software to another is made as the result of a change in operating system, or from one
computer system to another. Under a perpetual license (132-33), the purchase price of the new software shall be reduced by the amount that was paid to purchase the earlier version. Under a term license (132-32), conversion credits which accrued while the earlier version was under a term license shall carry forward and remain available as conversion credits which may be applied towards the perpetual license price of the new version.

11. DESCRIPTIONS AND EQUIPMENT COMPATIBILITY
The Contractor shall include, in the schedule pricelist, a complete description of each software product and a list of equipment on which the software can be used. Also, included shall be a brief, introductory explanation of the modules and documentation which are offered.

12. RIGHT-TO-COPY PRICING
The Contractor shall insert the discounted pricing for right-to-copy licenses. You may make a no-cost copy of the Software provided that any such copy is only for archival purposes to internally back-up the Software or is created as an essential step in the internal installation of Software within your organization. You may not make any other copies of the Software.

For software, users may download the free Personal Edition (PRSE) to use for evaluation, training, and free runtime (see below) purposes, including the ability to build small models with real applications. PRSE does not require any activation or usage fees.

Models can be freely copied for backup purposes or copied between licensed users and run using their commercial license. In addition, models created in Professional Editions can be distributed to anyone for use in runtime mode using the free PRSE. Some technical limitations apply to the free runtime mode – a paid runtime mode is also available.

Activation which enables commercial feature sets (like Design, or Professional editions) may be copied for backup purposes but is intended to support a specific seat count which may not be exceeded. Volume discounts to provide additional seats may be available by contacting sales. sales@simio.com

TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF TRAINING COURSES FOR GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT AND SOFTWARE (SPECIAL ITEM NUMBER 611420)

1. SCOPE
   a. The Contractor shall provide training courses normally available to commercial customers, which will permit ordering activity users to make full, efficient use of general-purpose commercial IT products. Training is restricted to training courses for those products within the scope of this solicitation.
b. The Contractor shall provide training at the Contractor's facility and/or at the ordering activity's location, as agreed to by the Contractor and the ordering activity.

2. ORDER
Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under blanket purchase agreements (BPAs) shall be the basis for the purchase of training courses in accordance with the terms of this contract. Orders shall include the student's name, course title, course date and time, and contracted dollar amount of the course.

3. TIME OF DELIVERY
The Contractor shall conduct training on the date (time, day, month, and year) agreed to by the Contractor and the ordering activity.

4. CANCELLATION AND RESCHEDULING
a. The ordering activity will notify the Contractor at least seventy-two (72) hours before the scheduled training date, if a student will be unable to attend. The Contractor will then permit the ordering activity to either cancel the order or reschedule the training at no additional charge. In the event the training class is rescheduled, the ordering activity will modify its original training order to specify the time and date of the rescheduled training class.

b. In the event the ordering activity fails to cancel or reschedule a training course within the time frame specified in paragraph a, above, the ordering activity will be liable for the contracted dollar amount of the training course. The Contractor agrees to permit the ordering activity to reschedule a student who fails to attend a training class within ninety (90) days from the original course date, at no additional charge.

c. The ordering activity reserves the right to substitute one student for another up to the first day of class.

d. In the event the Contractor is unable to conduct training on the date agreed to by the Contractor and the ordering activity, the Contractor must notify the ordering activity at least seventy-two (72) hours before the scheduled training date.

5. FOLLOW-UP SUPPORT
The Contractor agrees to provide each student with unlimited access to the SIMIO FORUM https://www.simio.com/simio-forum/.

The Contractor agrees to provide each student with access to SIMIO TECHNICAL SUPPORT at support@simio.com or 1-412-528-4455 for telephone support or online support for refresher assistance and answers to related course curriculum questions, provided the student is an employee or agent of the ordering activity at the time of the communication, and the ordering activity must have an active Software Maintenance as a Service (SIN 54151) agreement.

6. PRICE FOR TRAINING
The price that the ordering activity will be charged will be the ordering activity training price in effect at the time of order placement, or the ordering activity price in effect at the time the training course is conducted, whichever is less.

7. INVOICES AND PAYMENT
Invoices for training shall be submitted by the Contractor after ordering activity completion of the training course. Charges for training must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

8. FORMAT AND CONTENT OF TRAINING
a. The Contractor shall provide written materials (i.e., manuals, handbooks, texts, etc.) normally provided with course offerings, printed and copied two-sided on paper containing 30% postconsumer materials (fiber). Such documentation will become the property of the student upon completion of the training class.

b. **If applicable** For hands-on training courses, there must be a one-to-one assignment of IT equipment to students. Students are required to provide their own computer equipment.

c. The Contractor shall provide each student with a Certificate of Training at the completion of each training course.

d. The Contractor shall provide the following information for each training course offered:

(1) The course title and a brief description of the course content, to include the course format (e.g., lecture, discussion, hands-on training); Simio Standard Four (4) Day and Extended Five (5) Day Training

(2) The length of the course; four or five (4 or 5) days

(3) Mandatory and desirable prerequisites for student enrollment; https://simio.talentlms.com/catalog

1. Why Choose Simio / Casual Learning → ~20 minutes
2. Simio Quick Start / Casual Learning → ~15 minutes

(4) The minimum and maximum number of students per class; minimum of three (3) and maximum of twelve (12) students per class

(5) The locations where the course is offered; Simio headquarters in Sewickley PA or on-site at customer location

(6) Class schedules; and
Course Outline (4 or 5 days) for Simio Standard Training

<table>
<thead>
<tr>
<th>Day</th>
<th>Module</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
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<td>1</td>
<td>Sim – C1</td>
<td>Introduction to Simulation</td>
</tr>
<tr>
<td>1</td>
<td>Sim – C2</td>
<td>Introduction to Simio</td>
</tr>
<tr>
<td>1</td>
<td>Sim – C3</td>
<td>Introduction to Animation (overview)</td>
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<tr>
<td>1</td>
<td>Sim – C4</td>
<td>Simio Modeling Framework</td>
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<tr>
<td>2</td>
<td>Sim – C5</td>
<td>Standard Library Fixed Objects</td>
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<tr>
<td>2</td>
<td>Sim – C7</td>
<td>Task Sequences</td>
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<tr>
<td>3</td>
<td>Sim – C8</td>
<td>Standard Library Dynamic Objects</td>
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<tr>
<td>3</td>
<td>Sim – C9</td>
<td>Working with Model Data</td>
</tr>
<tr>
<td>4</td>
<td>Sim – C10</td>
<td>Extending Model Logic with Processes</td>
</tr>
<tr>
<td>4</td>
<td>Sim – C11</td>
<td>Debugging Your Model</td>
</tr>
<tr>
<td>4</td>
<td>Sim – C13</td>
<td>Building Object Definitions (Overview)</td>
</tr>
<tr>
<td>4</td>
<td>Sim – C14</td>
<td>Introduction to Scheduling and Industry 4.0</td>
</tr>
<tr>
<td>5</td>
<td>(Extra Cost Option)</td>
<td>Advanced topics, more topic depth, and/or ‘Jump Start’ on a project</td>
</tr>
</tbody>
</table>

(7) Price (per student, per class (if applicable)).

Simio Standard Four (4) Day Public Classroom Training (per student) $1,895.21  
Simio Extended Five (5) Day Public Classroom Training (per student) $2,369.02  
Simio Standard Four (4) Day Training at Ordering Activity Site (per class)* $9,093.20  
Simio Extended Five (5) Day Training at Ordering Activity Site (per class)* $11,007.56  

*Instructor T&L expenses billed at-cost

e. For those courses conducted at the ordering activity’s location, instructor travel charges (if applicable), including mileage and daily living expenses (e.g., per diem charges) are governed by Pub. L. 99-234 and FAR Part 31.205-46, and are reimbursable by the ordering activity on orders placed under the Multiple Award Schedule, as applicable, in effect on the date(s) the travel is performed. Contractors cannot use GSA city pair contracts. The Industrial Funding Fee does NOT apply to travel and per diem charges.

f. For Online Training Courses, a copy of all training material must be available for electronic download by the students.
This course provides a fast start to using Simio to effectively solve real problems. Attendees should bring their own laptops to participate in the hands-on workshops. Attendees will be provided with a printed course workbook, four valuable e-books (over 1000 pages total), and a complimentary copy of Simio Personal Edition Software.

**What will be covered**

We start with an overview of simulation technology, its limitations and benefits. We then introduce the Simio modeling framework to learn what makes Simio unique. We use the Simio Standard Library to solve a variety of problems -- exploring the ease-of-use and power of intelligent objects. Next, we cover how objects can interact to provide improved model accuracy and flexibility and how to create and modify objects graphically. Learn about innovations in data representation and integration with Excel, databases and external systems like Wonderware MES. Significant time will be spent on extending model logic with add-on processes and building object definitions. Includes an overview of innovative ways to evaluate scenarios and interpret simulation results and demonstrates the many built-in tools and techniques to ensure that your model is verified and validated and providing reliable results.

Most topics are illustrated with numerous ‘follow along’ sessions and hands-on workshops that let you instantly put your new knowledge into practical application. Success tips based on decades of experience are interspersed liberally throughout the course. The entire course will be adjusted to the needs and interests of the attendees. In particular, the last half day is generally dedicated to more in-depth or advanced topics and optional general simulation topics which may include advanced material handling (cranes, robots), flow processing, simulation-based planning and scheduling, and project success skills. Often time can be allocated to give you a jump-start into starting your first model.

On-site courses are customized to the needs and objectives of the participants.

This course can be delivered in several formats:

- A four-day course is our standard offering providing adequate time to cover the fundamentals with workshops.
- A five-day version is recommended to either: allow more depth, workshop time, advanced topics, and project “jump start” or, cover planning and scheduling fundamentals.

Topics 1 and 14 are appropriate for managers looking to better understand the technology (about an hour each). Topic 14 could be covered at any time during the course. Topic 2 is appropriate for someone looking for some extra technical depth, without committing to the full course.
Typical Schedule*  
* Every course is customized to the attendee objectives and skill level and not all modules are included in every course.

**Day 1**
1. Introduction to Simulation
2. Introduction to Simio
3. Introduction to Animation
4. Simio Modeling Framework

**Day 2**
5. Standard Library Fixed Objects
6. Balking and Reneging
7. Task Sequences

**Day 3**
8. Standard Library Dynamic Objects
9. Working with Model Data

**Day 4**
10. Extending Model Logic with Processes
11. Debugging Your Model
12. Interpreting Simulation Results
13. Building Object Definitions
14. Planning & Scheduling Overview

Possible Advanced Topics in Longer Courses:
- Elements
- Experimentation and Performance
- Events
- Extras Library
- Flow Library
- Dashboards
- Task Sequences (Advanced)
- Data Tables (Advanced)
- Processes (Advanced)
- Input Parameters
- Analyzing Input Data
- Portal for Distributing Results
- Conducting Successful Simulation Projects
Planning and Scheduling Fundamentals

Notes:
- Instructor will come with their own computer; instructor network access is desired to fully cover all topics.
- Instructor will supply manuals for registered participants unless agreed otherwise.
- Customer will provide class video equipment and computers for each participant.
- No Simio software activation is required (e.g., Simio Personal Edition is sufficient) however access to any existing activation is a plus.

9. “NO CHARGE” TRAINING

The Contractor shall describe any training provided with equipment and/or software provided under this contract, free of charge, in the space provided below.

The Contractor shall describe any training provided with equipment and/or software provided under this contract, free of charge, in the space provided below.

Simio Forum: As a Simio Insider, you will have access to information about Simio’s unique advantages and strategies.  https://www.simio.com/simio-forum/

Simulation Software – Simio Personal Edition: No cost version of Simio simulation software. Simio Personal Edition of simulation software is fully functional for all projects and can save projects that have up to 5 models, 30 objects and 30 steps. Explore SimBits
https://www.simio.com/free-simulation-software/

Learn Simio Simulation Software

Introductory Topics

- **Why Choose Simio**
  A brief introduction to Simio and the power of Intelligent Objects, followed by a quick introduction to Simio’s Standard Library, data representation, and experimentation capabilities. These five short videos, viewable in about 20 minutes total, provide a quick overview of Simio and why it is the fastest growing simulation product; already used by over 800 universities worldwide.
  https://www.simio.com/resources/online-training/why-choose-simio.php

- **Simio Quick Start**
  This is a quick overview of the Simio basics. This 15-minute video will help you discover the basics of the user interface, building models, running experiments, and interpreting results. Then it surveys some ways to learn more including SimBits, Examples, Videos, the User Forum, and Help. No matter how you prefer to learn, this video will help you get
there faster.
https://www.simio.com/resources/online-training/simio-quick-start.php

- **Introduction to Simulation and Scheduling**
  This 2.5 hour video set illustrates how to build and operate a small flexible manufacturing cell while illustrating the basic components of a simulation project using Simio.

- **Introduction to Simulation and Scheduling: Level 1 Certification**
  This course tracks your progress on quizzes and will earn you a printable certificate certifying Basic (Level 1) skills. This video series illustrates how to build and operate a small flexible manufacturing cell while illustrating the basic components of a simulation project using Simio. For complimentary coupon, email sales@simio.com

**Intermediate Topics**

- **Introduction to Simio**
  Led by Simio Vice-President of Operations David Sturrock, this informal seven-part training session is the video companion to the book Rapid Modeling Solutions: Introduction to Simulation and Simio. Follow along as David runs through Simio’s Standard Library, Processes, Data-Driven Models, Object Definitions, and more. This is not a polished video, but rather an informal recording of seven live training sessions, each just over an hour in duration.
  https://www.simio.com/resources/online-training/introduction-to-simio.php

- **Simio Online Learning Series: Level 2 Certification**
  This is a series of 13 modules that each have explanatory videos, a problem statement, and solution models, designed for independent study or for use with any textbook. Successful completion of all modules will prepare the student with a solid (Level 2) background in Simio and simulation modeling techniques. For complimentary coupon email sales@simio.com
  https://www.simio.com/resources/online-training/simio-online-learning-series-level-2-certification.php

**Special Topics**

- **Wonderware MES Integration with Simio**
  Join Renee Thiesing, Simio Sr. Application Engineer, in a detailed demonstration of the interface between Wonderware’s Manufacturing Execution System (MES) and Simio’s Risk-based Planning and Scheduling (RPS) solution. This 20-minute video set introduces both Wonderware and Simio, then describes how the integration works and its benefits for you.

**E-Book Downloads**

- **Rapid Modeling Solutions: Introduction to Simulation and Simio**
This book introduces the concepts of simulation and how to be successful with it, then walks through the basics of Simio and some sample models. We encourage you to read this as you start modeling. A matching 8-hour Introduction to Simio video series is available on-line at no cost. This book may be suitable for use as a textbook supplement for short courses and courses that are part of a larger, more general course. 
https://www.simio.com/about-simio/introduction-to-simio.php

- **Simio Wonderware MES Integration Guide**
  Simio provides Wonderware MES with Finite Capacity Scheduling and Advanced Planning and Scheduling functionality. Simio’s patented approach to planning and scheduling is first to automate comparing a deterministic schedule from MRP with a variation adjusted schedule to let you effectively deal with breakdowns, unplanned events and material shortages. You can then re-schedule resources to acceptable levels of risk. Data is brought into memory for fast execution. While Simio takes full advantage of your existing data to quickly and automatically build you scheduling model, that base model can also be enhanced as needed to accurately capture complexity unique to your system. 

- **Simio YouTube Channel**
  - **Learning Videos**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vFWuPjENj2BGp1VpKlqbpGI
  - **Student Projects**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vEj9cGbzPjATLgVBiC-Izlk
  - **Simio Overview**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vFYBTwur_55ttRiOkB4NQDw
  - **Feature Overview**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vH7LN7PCUAZpwXB4-iH05Fc
  - **Example Models**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vGERw6y-dRlfr__viEQnNkZ
  - **Explainer Videos**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vGBdo5LyXCMgjJSQI_7A
  - **Fun with Simio**
    https://www.youtube.com/playlist?list=PL43C4_Bof9vGQbrZylk7Hy2gyNws8lW6Y

- **Other Resources**
  - **Books for Learning Simio**
    Textbooks and Workbooks covering many aspects of Simio, written by the experts. Modest charge for eBooks.
  - **Videos, Webinars, White Papers, and More**
    Check out our Resources section for additional learning tools.
    https://www.simio.com/resources/
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1) An on-line searchable knowledgebase that provides instant solutions for many common problems.
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In addition, Simio includes features to support optional automatic reporting of certain issues to streamline the issue reporting and problem resolution process.

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