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

Schedule Title: Multiple Award Schedule
Federal Supply Group: Information Technology

Contract Number: GS-35F-239BA
Contract Period: February 26, 2019 through February 25, 2024

For more information on ordering from Federal Supply Schedules go to the GSA Schedules page at GSA.gov.

Contractor: Quadrint, Inc.
3190 Fairview Park Drive, Suite 360
Falls Church, VA 22042

Business Size: Small Business

Telephone: 703-349-0139
FAX Number: 703-349-0139
Web Site: http://www.quadrint.com
E-mail: patrick.acheson@quadrint.com

Contract Administration: Patrick Acheson

Pricelist current through Modification #PA-0015, dated April 22, 2021.
CUSTOMER INFORMATION:

1a. Table of Awarded Special Item Number(s) with appropriate cross-reference to page numbers:

<table>
<thead>
<tr>
<th>SIN</th>
<th>SIN Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>518210C &amp; 518210CRC</td>
<td>Cloud Computing and Cloud Related IT Professional Services</td>
</tr>
<tr>
<td>54151S &amp; 54151SRC</td>
<td>Information Technology Professional Services</td>
</tr>
<tr>
<td>611420 &amp; 611420RC</td>
<td>Information Technology Training</td>
</tr>
<tr>
<td>OLM</td>
<td>Order Level Materials</td>
</tr>
</tbody>
</table>

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. Not Applicable.

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. See Labor Category Descriptions Page 7.

2. Maximum Order: For SINs 518210C & 54151S - $500,000
   For SINs 611420 & OLM - $250,000

3. Minimum Order: $100.00

4. Geographic Coverage (delivery Area): Domestic Delivery Only

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

6. Discount from list prices or statement of net price: Government net prices (discounts already deducted).

7. Quantity discounts: None

8. Prompt payment terms: 2% 15 Days/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): Quadrint, Inc. shall deliver or perform services in accordance with the terms negotiated in an agency’s order.

10b. Expedited Delivery. The Contractor will insert the sentence “Items available for expedited delivery are noted in this price list.” under this heading. The Contractor may use a symbol of its choosing to highlight items in its price list that have expedited delivery: Consult with Contractor
10c. Overnight and 2-day delivery. The Contractor will indicate whether overnight and 2-day delivery are available. Also, the Contractor will indicate that the schedule customer may contact the Contractor for rates for overnight and 2-day delivery: Consult with Contractor

10d. 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 effect a faster delivery: Consult with Contractor

11. F.O.B Point(s): Destination

12a. Ordering Address(es): Quadrint, Inc.
Attn: GSA Orders
3190 Fairview Park Drive, Suite 360
Falls Church, VA 22042

12b. Ordering procedures: For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPAs) are found in Federal Acquisition Regulation (FAR) 8.405-3.

13. Payment address(es): Quadrint, Inc.
Attn: Accounts Receivable
3190 Fairview Park Drive, Suite 360
Falls Church, VA 22042

14. Warranty provision: Contractor’s Standard Warranty

15. Export Packing Charges (if applicable): Not Applicable

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

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

18a. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable): Not Applicable

18b. Terms and conditions for any other services (if applicable): Not Applicable

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

20. List of participating dealers (if applicable): Not Applicable

21. Preventive maintenance (if applicable): Not Applicable

22a. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants: Not Applicable
22b. Contact Quadrint, Inc. for Section 508 compliance information. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found (e.g. contactor’s website or other location.) The EIT standards can be found at: [www.Section508.gov/](http://www.Section508.gov/).

23. Unique Entity Identifier (UEI) number: TKKLKEFBL2D8

24. Notification regarding registration in System for Award Management (SAM) database: Quadrint, Inc. is registered in the SAM database.
<table>
<thead>
<tr>
<th>Labor Category</th>
<th>02/26/19 – 02/25/20</th>
<th>02/26/20 – 02/25/21</th>
<th>02/26/21 – 02/25/22</th>
<th>02/26/22 – 02/25/23</th>
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<tr>
<td>Cloud Analyst I</td>
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<td>$93.17</td>
<td>$95.32</td>
<td>$97.51</td>
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<td>$178.36</td>
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<td>$186.12</td>
<td>$190.40</td>
<td>$194.78</td>
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<td>$154.35</td>
<td>$157.90</td>
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<td>$209.19</td>
<td>$214.00</td>
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LABOR CATEGORY DESCRIPTIONS
SIN 518210C

Cloud Analyst I

Minimum Experience: An Cloud Analyst I has one year of experience in systems development and/or training methodologies and may possess a security clearance. An Cloud Analyst I will possess analytical skills and knowledge of systems design and development.

Functional Responsibility: A Cloud Analyst I applies his/her skills in systems development, knowledge of business processes, and training to implement cloud solutions. A Cloud Analyst I will interact with clients at the working level.

A Cloud Analyst I is qualified to perform such tasks including:
- Develop project documentation and training materials
- Design, code and test work units for cloud information systems according to project specifications
- Provide technical support to functional users
- Assist with maintaining project work plan
- Assist with test execution and documentation, including executing and documenting test plans, scripts and test results
- Assist with developing and documenting new/redesigned business processes in a cloud environment

Minimum Education: A Bachelor's degree (BS/BA)

Cloud Analyst II

Minimum Experience: An Cloud Analyst II requires a minimum of two years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An Cloud Analyst II has analytical experience and both knowledge and experience in systems design and development.

Functional Responsibility: A Cloud Analyst II applies his/her skills in systems development, detailed knowledge of cloud processes, technical background and team leadership skills to implement cloud solutions. A Cloud Analyst II may lead Cloud analysts and interact with clients at the working level.

A Cloud Analyst II is qualified to perform such tasks including:
- Develop project documentation and training materials
- Design, code and test work units for cloud information systems according to project specifications
- Provide technical support to functional users
- Assist with maintaining project work plan
- Assist with test execution and documentation, including executing and documenting test plans, scripts and test results
- Assist with developing and documenting new/redesigned business processes in a
cloud environment

**Minimum Education:** A Bachelor's degree (BS/BA)

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**Cloud Consultant I**

**Minimum Experience:** An Cloud Consultant I requires a minimum of three years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An Cloud Consultant I has experience in leading teams and may oversee specific project implementation teams.

**Functional Responsibility:** A Cloud Consultant I applies his/her skills in systems development, knowledge of cloud architecture and processes, technical background and supervisory skills to implement cloud solutions. A Cloud Consultant I may supervise Cloud analysts and interact with clients at the working level.

A Cloud Consultant I is qualified to perform such tasks including:
- Assist with the preparation and management of project work unit cost estimates, budgets and work plans
- Supervise project personnel on project teams
- Developing functional and technical information systems
- Developing new/redesigned business processes in a cloud environment
- Developing technical training curricula

**Minimum Education:** A Bachelor's degree (BS/BA)

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**Cloud Consultant II**

**Minimum Experience:** An Cloud Consultant II requires a minimum of four years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An Cloud Consultant II has experience in leading portions projects and may oversee specific project implementation teams.

**Functional Responsibility:** A Cloud Consultant II applies his/her skills in systems development, detailed knowledge of cloud architecture and processes, technical background and supervisory skills to implement cloud solutions. A Cloud Consultant II provides direction to project teams and interact with clients at the supervisory level.

An Cloud Consultant II is qualified to perform such tasks including:
- Assist with the preparation and management of project cost estimates, budgets and work plans
- Supervise project personnel and project teams
- Designing and developing functional and technical information systems
- Designing and developing new/redesigned processes in a cloud environment
- Designing and developing technical training curricula
- Assist with assessing and managing project quality
- Assist with assessing and managing project risk
**Minimum Education:** A Master's degree (MS/MA)

**Cloud Consultant III**

**Minimum Experience:** An Cloud Consultant III requires a minimum of five years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An Cloud Consultant III has experience in leading portions projects and may oversee specific project implementation teams.

**Functional Responsibility:** A Cloud Consultant III applies his/her skills in systems development, detailed knowledge of cloud architecture and processes, technical background and supervisory skills to implement cloud solutions. A Cloud Consultant III provides direction to project teams and interact with clients at the supervisory level.

A Cloud Consultant III is qualified to perform such tasks including:

- Assist with the preparation and management of project cost estimates, budgets and work plans
- Supervise project personnel and project teams
- Designing and developing functional and technical information systems
- Designing and developing new/redesigned processes in a cloud environment
- Designing and developing technical training curricula
- Assist with assessing and managing project quality
- Assist with assessing and managing project risk

**Minimum Education:** A Master’s degree (MS/MA)

**Cloud Developer I**

**Minimum Experience:** A Cloud Developer I requires a minimum of three years information technology experience and has training and experience in the field of business intelligence and analytics. Experience includes information systems engineering and support, data modeling, statistical analysis, defining metrics, developing analytic reports and may possess a security clearance. A Cloud Developer may also possess certain technical certifications with specific analytical software products.

**Functional Responsibility:** A Cloud Developer I applies his/her expertise in cloud software development to solve complex business problems. He/she is adept at migrating systems to a cloud architecture from disparate platforms and utilizing a wide range of tools to implement/re-implement systems in a cloud architecture.

A Cloud Developer is qualified to perform such tasks including:

- Meeting with customers to understand system requirements, business problems and the sets of data that are available.
- Designing cloud-based database schemas that provide maximum flexibility for the interrogation of data.
- Modeling data and systems using commercially available modeling tools.
- Developing complex reports and ad hoc query models from these data using a variety of reporting, dashboarding and score-carding tools, as well as analysis
cubes.
- Writing user guides and training materials, and delivering end-user training.

**Minimum Education:** A Master's degree (MS/MA)

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**Cloud Developer II**

**Minimum Experience:** A Cloud Developer II requires a minimum of five years information technology experience and has training and experience in the field of business intelligence and analytics. Experience includes information systems engineering and support, data modeling, statistical analysis, defining metrics, developing analytic reports and may possess a security clearance. A Cloud Developer may also possess certain technical certifications with specific analytical software products.

**Functional Responsibility:** A Cloud Developer II applies his/her expertise in cloud software development to solve complex business problems. He/she is adept at migrating systems to a cloud architecture from disparate platforms and utilizing a wide range of tools to implement/re-implement systems in a cloud architecture.

A Cloud Developer II is qualified to perform such tasks including:
- Meeting with customers to understand system requirements, business problems and the sets of data that are available.
- Designing cloud-based database schemas that provide maximum flexibility for the interrogation of data.
- Modeling data and systems using commercially available modeling tools.
- Developing complex reports and ad hoc query models from these data using a variety of reporting, dashboarding and score-carding tools, as well as analysis cubes.
- Writing user guides and training materials and delivering end-user training.

**Minimum Education:** A Master's degree (MS/MA)

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**Cloud Senior Systems Engineer / Database Administrator**

**Minimum Experience:** A Cloud Senior Systems Engineer / Database Administrator requires a minimum of seven years information technology experience. Experience includes information systems engineering and support, database engineering and management, and may possess a security clearance. A Cloud Senior Systems Engineer / Database Administrator has experience in architecting, implementing and managing information technology systems.

**Functional Responsibility:** A Cloud Senior Systems Engineer / Database Engineer applies his/her skills in architecting, designing and managing complex information technology systems in a cloud architecture to ensure that system design and operation meets business needs. A Senior Cloud Systems Engineer/Database Engineer also provides guidance and experience on a project or program, serves as a team leader, and performs analysis of issues and risks.

A Senior Cloud Systems Engineer / Database Engineer is qualified to perform such tasks including:
- Manage activities related to the administration of cloud architecture
• Projects long-range requirements for cloud architecture administration and design in conjunction with other managers in the information systems function.
• Architects, creates, and maintains Information Technology architecture in a cloud environment.
• Develops quality control and auditing procedures for cloud architectures to ensure accurate and appropriate use of data.
• Develops performance benchmarks and conducts benchmark testing for information technology systems in a cloud environment to validate that they will meet customer performance needs.
• Develop and monitor cloud architecture standards and procedures.
• Assist with preparing and managing technical project cost estimates, budgets and work plans
• Supervise project personnel
• Assess and report on project status

**Minimum Education:** A Master’s degree (MS/MA)

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**Project Manager – Cloud**

**Minimum Experience:** A Project Manager - Cloud requires a minimum of five years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance.

**Functional Responsibility:** A Project Manager - Cloud has experience in creating and managing cloud project objectives, building the project requirements, and managing the constraints of the project, including cost, time, scope, and quality.

A Project Manager - Cloud provides guidance and experience on a project or program, serves as a team leader, performs analyses issues and risks, and helps to ensure that project design meets business needs. Additional experience includes performing business process reengineering, managing project or program finances, managing change, and measuring performance.

A Project Manager - Cloud applies management skills and technical expertise in the role of team leader, directing and managing the work of other project personnel. The Project Manager provides functional and technical expertise to guide project team and to manage the day-to-day operations of projects.

A Project Manager - Cloud is qualified to perform such tasks including:
• Prepare and manage project cost estimates, budgets and work plans
• Supervise project personnel
• Assess and report on project status
• Manage and communicate with project stakeholders
• Manage project cost
• Manage project scope
• Manage project quality
• Assess and manage project risk

**Minimum Education:** A Master’s degree (MS/MA)
Subject Matter Expert – Cloud

Minimum Experience: A Subject Matter Expert - Cloud requires a minimum of eight years of experience with in-depth knowledge of a particular area, such as business, personnel management, human resources management, human capital management, computer science, engineering, mathematics, or the various sciences.

Functional Responsibility: A Subject Matter Expert – Cloud provides technical knowledge and analysis of highly specialized applications and cloud environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive cloud knowledge for effective implementation.

A Subject Matter Expert is qualified to perform such tasks including:
- Using principles, methods and knowledge of a functional or technical area to assist with developing solutions to specific complex functional or technical problems.
- Applying advanced mathematical principles and methods to exceptionally difficult technical problems in engineering or specific technical areas.
- Assists with developing automated solutions and applying specific technology to solve complex cloud system problems.

Minimum Education: A Master’s degree (MS/MA)

Experience & Degree Substitution Equivalencies
Experience exceeding the minimum shown may be substituted for education. Likewise, education exceeding the minimum shown may be substituted for experience.

<table>
<thead>
<tr>
<th>Equivalent Degree</th>
<th>Experience</th>
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<tbody>
<tr>
<td>Associate’s</td>
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</tr>
<tr>
<td>Bachelor’s</td>
<td>Associate’s degree + 2 years relevant experience or 4 years relevant experience</td>
</tr>
<tr>
<td>Master’s</td>
<td>Bachelor’s plus 2 years relevant experience or Associate’s degree + 4 years relevant experience or 6 years relevant experience</td>
</tr>
<tr>
<td>PhD</td>
<td>Master’s + 2 years relevant experience, or Bachelor’s + 4 years relevant experience, or Associate’s + 6 years or 8 years relevant experience</td>
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</table>
LABOR CATEGORY DESCRIPTIONS
SIN 54151S

Business Analytics Developer I

**Minimum Experience:** A Business Analytics Developer I requires a minimum of three years information technology experience and has training and experience in the field of business intelligence and analytics. Experience includes information systems engineering and support, data modeling, statistical analysis, defining metrics, developing analytic reports and may possess a security clearance. A Business Analytics Developer may also possess certain technical certifications with specific analytical software products.

**Functional Responsibility:** A Business Analytics Developer I applies his/her expertise in data modeling and analysis to solve complex business problems. He/she is adept at federating a metadata model from disparate data sources and utilizing a wide range of interrogation tools to synthesize business intelligence from raw data.

A Business Analytics Developer is qualified to perform such tasks including:

- Meeting with customers to understand system requirements, business problems and the sets of data that are available.
- Designing database schemas that provide maximum flexibility for the interrogation of data, whether those schemas represent OLAP, relational or de-normalized structures.
- Modeling these same data using commercially available metadata modeling tools.
- Developing complex reports and ad hoc query models from these data using a variety of reporting, dashboarding and scorecarding tools, as well as analysis cubes.
- Writing user guides and training materials, and delivering end-user training.

**Minimum Education:** A Master’s degree (MS/MA)

Business Analytics Developer II

**Minimum Experience:** A Business Analytics Developer II requires a minimum of five years information technology experience and has training and experience in the field of business intelligence and analytics. Experience includes information systems engineering and support, data modeling, statistical analysis, defining metrics, developing analytic reports and may possess a security clearance. A Business Analytics Developer may also possess certain technical certifications with specific analytical software products.

**Functional Responsibility:** A Senior Business Analytics Developer II applies his/her expertise in data modeling and analysis to solve complex business problems. He/she is adept at federating a metadata model from disparate data sources and utilizing a wide range of interrogation tools to synthesize business intelligence from raw data.

A Business Analytics Developer is qualified to perform such tasks including:

- Meeting with customers to understand system requirements, business problems and the sets of data that are available.
- Designing database schemas that provide maximum flexibility for the interrogation of data, whether those schemas represent OLAP, relational or de-normalized structures.
- Modeling these same data using commercially available metadata modeling tools.
• Developing complex reports and ad hoc query models from these data using a variety of reporting, dashboarding and scorecarding tools, as well as analysis cubes.
• Writing user guides and training materials, and delivering end-user training.

**Minimum Education:** A Master’s degree (MS/MA)

**IT Analyst I**
**Minimum Experience:** An IT Analyst I has one year of experience in systems development and/or training methodologies and may possess a security clearance. An IT Analyst I will possess analytical skills and knowledge of systems design and development.

**Functional Responsibility:** An IT Analyst I applies his/her skills in systems development, knowledge of business processes, and training to implement business solutions. IT Analyst I will interact with clients at the working level.

An IT Analyst II is qualified to perform such tasks including:
• Develop project documentation and training materials
• Design, code and test work units for information systems according to project specifications
• Provide technical support to functional users
• Assist with maintaining project work plan
• Assist with test execution and documentation, including executing and documenting test plans, scripts and test results
• Assist with developing and documenting new/redesigned business processes

**Minimum Education:** A Bachelor’s degree (BS/BA)

**IT Analyst II**
**Minimum Experience:** An IT Analyst II requires a minimum of two years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An IT Analyst II has analytical experience and both knowledge and experience in systems design and development.

**Functional Responsibility:** An IT Analyst II applies his/her skills in systems development, detailed knowledge of business processes, technical background and team leadership skills to implement business solutions. IT Analyst II may lead IT analysts and interact with clients at the working level.

An IT Analyst II is qualified to perform such tasks including:
• Develop project documentation and training materials
• Design, code and test work units for information systems according to project specifications
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Minimum Education: A Bachelor's degree (BS/BA)

IT Consultant I
Minimum Experience: An IT Consultant I requires a minimum of three years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An IT Consultant I has experience in leading teams and may oversee specific project implementation teams.

Functional Responsibility: An IT Consultant I applies his/her skills in systems development, detailed knowledge of business processes, technical background and supervisory skills to implement business solutions. An IT Consultant I may supervise IT analysts and interact with clients at the working level.

An IT Consultant I is qualified to perform such tasks including:
- Assist with the preparation and management of project work unit cost estimates, budgets and work plans
- Supervise project personnel on project teams
- Developing functional and technical information systems
- Developing new/redesigned business processes
- Developing technical training curricula

Minimum Education: A Bachelor’s degree (BS/BA)

IT Consultant II
Minimum Experience: An IT Consultant II requires a minimum of four years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An IT Consultant II has experience in leading portions projects and may oversee specific project implementation teams.

Functional Responsibility: An IT Consultant II applies his/her skills in systems development, detailed knowledge of business processes, technical background and supervisory skills to implement business solutions. An IT Consultant II provides direction to project teams and interact with clients at the supervisory level.

An IT Consultant II is qualified to perform such tasks including:
- Assist with the preparation and management of project cost estimates, budgets and work plans
- Supervise project personnel and project teams
- Designing and developing functional and technical information systems
- Designing and developing new/redesigned business processes
- Designing and developing technical training curricula
- Assist with assessing and managing project quality
- Assist with assessing and managing project risk

Minimum Education: A Master's degree (MS/MA)
IT Consultant III

**Minimum Experience:** An IT Consultant III requires a minimum of five years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance. An IT Consultant III has experience in leading portions projects and may oversee specific project implementation teams.

**Functional Responsibility:** An IT Consultant III applies his/her skills in systems development, detailed knowledge of business processes, technical background and supervisory skills to implement business solutions. An IT Consultant III provides direction to project teams and interact with clients at the supervisory level.

An IT Consultant III is qualified to perform such tasks including:
- Assist with the preparation and management of project cost estimates, budgets and work plans
- Supervise project personnel and project teams
- Designing and developing functional and technical information systems
- Designing and developing new/redesigned business processes
- Designing and developing technical training curricula
- Assist with assessing and managing project quality
- Assist with assessing and managing project risk

**Minimum Education:** A Master's degree (MS/MA)

Project Manager

**Minimum Experience:** A Project Manager requires a minimum of five years information technology experience. Experience includes information systems implementation, change management efforts or business process redesign and may possess a security clearance.

**Functional Responsibility:** A Project Manager has experience in creating and managing project objectives, building the project requirements, and managing the constraints of the project, including cost, time, scope, and quality.

A Project Manager provides guidance and experience on a project or program, serves as a team leader, performs analyses issues and risks, and helps to ensure that project design meets business needs. Additional experience includes performing business process reengineering, managing project or program finances, managing change, and measuring performance.

A Project Manager applies management skills and technical expertise in the role of team leader, directing and managing the work of other project personnel. The Project Manager provides functional and technical expertise to guide project team and to manage the day-to-day operations of projects.

A Project Manager is qualified to perform such tasks including:
- Prepare and manage project cost estimates, budgets and work plans
- Supervise project personnel
• Assess and report on project status
• Manage and communicate with project stakeholders
• Manage project cost
• Manage project scope
• Manage project quality
• Assess and manage project risk

**Minimum Education:** A Master's degree (MS/MA)

### Senior Systems Engineer / Database Administrator

**Minimum Experience:** A Senior Systems Engineer / Database Administrator requires a minimum of seven years information technology experience. Experience includes information systems engineering and support, database engineering and management, and may possess a security clearance. A Senior Systems Engineer / Database Administrator has experience in architecting, implementing and managing information technology systems.

**Functional Responsibility:** A Senior Systems Engineer / Database Administrator applies his/her skills in architecting, designing and managing complex information technology systems to ensure that system design and operation meets business needs. A Senior Systems Engineer / Database Administrator also provides guidance and experience on a project or program, serves as a team leader, and performs analysis of issues and risks.

A Senior Systems Engineer / Database Administrator is qualified to perform such tasks including:
• Manage activities related to the administration of Information Technology architecture
• Projects long-range requirements for Information Technology architecture administration and design in conjunction with other managers in the information systems function.
• Architects, creates, and maintains Information Technology architecture in a client/server environment.
• Develops quality control and auditing procedures for information systems architectures to ensure accurate and appropriate use of data.
• Develops performance benchmarks and conducts benchmark testing for information technology systems to validate that they will meet customer performance needs.
• Develop and monitor architecture standards and procedures.
• Assist with preparing and managing technical project cost estimates, budgets and work plans
• Supervise project personnel
• Assess and report on project status

**Minimum Education:** A Master's degree (MS/MA)

### Subject Matter Expert

**Minimum Experience:** A Subject Matter Expert requires a minimum of eight years of experience with in-depth knowledge of a particular area, such as business, personnel management, human resources management, human capital management, computer science, engineering, mathematics, or the various sciences.
**Functional Responsibility**: A Subject Matter Expert provides technical knowledge and analysis of highly specialized applications and operational environments, high-level functional systems analysis, design, integration, documentation and implementation advice on exceptionally complex problems that need extensive knowledge of the subject matter for effective implementation.

A Subject Matter Expert is qualified to perform such tasks including:

- Using principles, methods and knowledge of a functional or technical area to assist with developing solutions to specific complex functional or technical problems.
- Applying advanced mathematical principles and methods to exceptionally difficult technical problems in engineering or specific technical areas.
- Assists with developing automated solutions and applying specific technology to solve complex business problems.

**Minimum Education**: A Master’s degree (MS/MA)

**Experience & Degree Substitution Equivalencies**
Experience exceeding the minimum shown may be substituted for education. Likewise, education exceeding the minimum shown may be substituted for experience.

<table>
<thead>
<tr>
<th>Equivalent Degree</th>
<th>Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate’s</td>
<td>2 years relevant experience</td>
</tr>
<tr>
<td>Bachelor’s</td>
<td>Associate’s degree + 2 years relevant experience or 4 years relevant experience</td>
</tr>
<tr>
<td>Master’s</td>
<td>Bachelor’s plus 2 years relevant experience or Associate’s degree + 4 years relevant experience or 6 years relevant experience</td>
</tr>
<tr>
<td>PhD</td>
<td>Master’s + 2 years relevant experience, or Bachelor’s + 4 years relevant experience, or Associate’s + 6 years or 8 years relevant experience</td>
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</table>
### Title of Course: Data Vault 2.0 Boot Camp and Certification

<table>
<thead>
<tr>
<th>Location of Course:</th>
<th>On &amp; Off Site</th>
<th>Length of Course (ия # of Hrs/Days):</th>
<th>3 days instructor led.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Number of Participants:</td>
<td>1</td>
<td>Maximum Number of Participants:</td>
<td>25</td>
</tr>
</tbody>
</table>

#### Course Prerequisites:
Students are expected to have basic knowledge of the Data Vault 2.0 model, which is available by reading the book, “Building a Scalable Data Warehouse with Data Vault 2.0”.

Students must also complete 1 online pre-class training day on agile development available at no additional fee.

#### Support Materials Provided as Part of the Course (e.g., Training Manuals, CDs, DVDs):
Training guide, including hands-on exercises that will be completed in-class.

#### Description of Course, Including Major Objectives
The Boot Camp class provides an introduction to the Data Vault 2.0 System of Business Intelligence as well as intermediate topics. The course covers the business justification for the DV 2.0 solution and provides a technical overview of the solution’s methodology, architecture, and model – basically, the **why**, **what**, and **how** aspects of designing, building, and implementing a DV 2 Enterprise Data Warehouse. The course ends with a practicum in hands-on design, ETL best practices, SQL code examples/templates.

Includes new state of the art material about implementing Data Vault on Hadoop platform. New additional material on Hashing, Business Keys, and Data Vault Modeling, including a 2-hour hands-on "team based" model drawing exercise.