NOTICE OF EXAMINATION

PROMOTION TO COMPUTER ASSOCIATE (SOFTWARE)

Exam. No. 4542

WHEN TO APPLY: From: April 6, 2005 APPLICATION FEE: $50.00
To: April 26, 2005 Payable only by money order to D.C.A.S. (EXAMS)

WHAT THE JOB INVOLES: Computer Associates (Software) under direct supervision, with moderate latitude for independent initiative and judgment, are responsible for the design, development, testing, implementation, maintenance, and enhancement of database management systems, operating systems, data communications and/or computer applications through product lifecycle. May supervise work in the development of computer programs. All Computer Associates (Software) perform related work.

(This is a brief description of what you might do in this position and does not include all the duties of this position.)

THE SALARY: The current minimum salary is $46,983 per annum. This rate is subject to change. There are three assignment levels within this class of positions. Promotions will be made to Assignment Level I. After promotion, employees may be assigned to the higher assignment levels at the discretion of the agency.

HOW TO APPLY: If you believe you are eligible to take this examination, refer to the "Required Forms" section below for the form(s) that you must fill out. Return all completed form(s) and the application fee to the above address by mail only. Applications will not be accepted in person.

ELIGIBILITY TO TAKE EXAMINATION: This examination is open to each employee of an agency under the jurisdiction of the Commissioner, Department of Citywide Administrative Services who on the last day of the application period:

(1) is permanently (not provisionally) employed in or appears on a Preferred List (see Note, below) for the title of Computer Programmer Analyst; and
(2) is not otherwise ineligible.

(Note: A "Preferred List" is a civil service list which is only for certain former permanent incumbents of the eligible title who have rehiring rights.)

If you do not know your permanent title or whether you are on a Preferred List, check with your agency’s personnel office. This examination is also open to employees who were appointed to the eligible title pursuant to New York State Civil Service Law, section 55-a, and who meet all other eligibility requirements. You are responsible for determining whether or not you meet the eligibility requirements for this examination prior to submitting your application. If you are marked “not eligible,” your application fee will not be refunded and your test paper(s) will not be rated.

ELIGIBILITY TO BE PROMOTED: In order to be eligible for promotion, you must have completed your probationary period in the eligible title as indicated in the above "Eligibility To Take Examination" section and you must be permanently employed in the eligible title or your name must appear on a Preferred List for the eligible title at the time of promotion. Additionally, you must have served permanently in the eligible title for at least one year.

READ CAREFULLY AND SAVE FOR FUTURE REFERENCE
REQUIRED FORM(S):

1. Application for Examination: Make sure that you follow all instructions included with your application form, including payment of fee. Save a copy of the instructions for future reference.

2. Education and Experience Test Paper: Write your social security number, the examination title and number in the box at the top right side of the cover page. Fill out Section B. This form must be filled out completely and in detail for you to receive your proper rating. Keep a copy of your completed Education and Experience Test Paper for your records.

3. Special Insert for Selective Certification and Professional Certifications: Write your social security number on the line at the center of Page 1 of the Special Insert.

   Part I: Selective Certification: In each selective certification section, check the appropriate box indicating whether or not you wish to apply for that particular selective certification. If you wish to apply for selective certification, complete all information requested in that section.

   Part II: Professional Certification: Follow the instructions to request credit for professional certification(s). In order to receive equivalent experience credit for any professional certification you claim, you must attach a copy of your certificate.

THE TEST: Your score will be determined by an experience test. You will receive a score of 70 points for meeting the eligibility requirements listed above. After these requirements are met, you will receive credit up to a maximum of 100 points on the following basis:

Additional Credit:
For full-time satisfactory computer software experience between April 6, 1998 and April 26, 2005 in computer systems development and analysis, applications programming, database administration, systems programming or data communications, you will receive an additional:

   (A) 10 points for at least one year but less than two years of experience; or
   (B) 20 points for at least two years but less than three years of experience; or
   (C) 30 points for at least three years of experience.

For full-time satisfactory computer software experience of at least one year between April 6, 1995 and April 5, 1998 in computer systems development and analysis, applications programming, database administration, systems programming or data communications, you will receive an additional 5 points.

Some examples of unacceptable experience are: End users of a computer system, program or software package; experience in the areas of computer technical support, computer operations; data entry/data retrieval; pure quality assurance (QA) auditing and analysis; hardware installation; help desk; teaching; telecommunications; experience in productivity software products (e.g. word processing, spreadsheet, presentation, and database software, etc.); superficial use of preprogrammed software without complex programming, design and implementation.

A single professional certification can be equated to 18 months of experience for additional credit. Part II of the Special Insert contains instructions for requesting additional credit for a professional certification, as well as a list of the acceptable professional certifications. You may receive 18 months of additional credit for ONE professional certification ONLY. In order to receive equivalent experience credit for any professional certification you claim, you must attach a copy of your certificate.

You will receive a maximum of one year of experience credit for each year you worked. If you have any of the above experience on a part-time basis, it will be credited according to the equivalent percent of full-time experience.

Experience must be obtained by the last day of the application period.

THE TEST RESULTS: If you pass the experience test and are marked eligible, your name will be placed in final score order on an eligible list and you will be given a list number. You will be notified by mail of your test results. If you meet all requirements and conditions, you will be considered for promotion when your name is reached on the eligible list.

ADDITIONAL INFORMATION:
Investigation: All eligibles must pass a background investigation by the Department of Investigation.

Selective Certification for Special Experience: If you have the full-time equivalent of 18 months of acceptable experience or a professional certification in Browser-Based Applications Development, Non-Browser-Based Applications Development, Mainframe Programming (Applications), Mainframe Programming (Systems), Database Administration (Unix), Database Administration (Windows), Database Administration (Mainframe), Novell-Based LAN Administration Services, Windows Server-Based LAN Administration Services, WAN Services, UNIX Administration, Security Administration, Synon Case Tool, or Internet and Emerging Technologies, you may be considered for appointment to positions requiring this experience through a process called Selective Certification. If you qualify for Selective Certification, you may be given preferred consideration for positions requiring this experience. To indicate your interest in Selective Certification, you must complete the applicable section(s) in Part I of the Special Insert. The acceptable professional certifications are listed in Part II of the Special Insert.

Application Receipt: You will be mailed a receipt within three months of the last date of the application period. If you do not receive this item, write to this agency, Attention: Examining Service Section, 1 Centre Street, 14th Floor, New York, NY 10007 to request verification that your application was received. Include your social security number and the examination number and title in your request.
PROMOTION TO COMPUTER ASSOCIATE (SOFTWARE)
EXAMINATION NO. 4542
SPECIAL INSERT

SOCIAL SECURITY NUMBER

Part 1: This special insert must be completed and submitted with your application for this examination.

All information provided must be verifiable. Please answer the questions carefully and provide all requested information. Any false or inaccurate entries may result in your disqualification. Be sure to write in your social security number above. Do not write your name anywhere on this form.

SELECTIVE CERTIFICATION:
If you wish to be considered for selective certification, you must complete the sections below which apply to you.

Section A.1 Selective Certification for Browser-Based Applications Development:
Do you wish to apply for selective certification for Browser-Based Applications Development?

☐ Yes ☐ No

Definition of Browser-Based Applications Development experience: At least 18 months experience in the design, development, implementation, maintenance and enhancement of Browser-based computer applications in a Web-based environment. Examples include, but are not limited to: HTML, XML, JavaScript, Perl, Macromedia Cold Fusion and Flash, Microsoft ASP.Net, Microsoft Visual Studio.Net, .Net Framework, ASP Web Services, C#, Filenet Development tools, Unisys Cool-Ice, Oracle Forms, Oracle Development Suite, Crystal, Oracle PL-SQL, Oracle Application Server, Oracle Developer Suite, Java, JSP.

Do you have 18 months of Browser-Based Applications Development experience as described above?

☐ Yes ☐ No

If yes, how much? _____ / __________ From _____ / __________ To _____ / __________

Year(s)/Month(s) Month/Year Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐ Box 2 ☐ Box 3 ☐ Box 4 ☐ Box 5 ☐ Box 6 ☐

Section A.2 Selective Certification for Non-Browser-Based Applications Development:
Do you wish to apply for selective certification for Non-Browser-Based Applications Development?

☐ Yes ☐ No


Do you have 18 months of Non-Browser-Based Applications Development experience as described above?

☐ Yes ☐ No

If yes, how much? _____ / __________ From _____ / __________ To _____ / __________

Year(s)/Month(s) Month/Year Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐ Box 2 ☐ Box 3 ☐ Box 4 ☐ Box 5 ☐ Box 6 ☐
Section A.3 Selective Certification for Mainframe Programming (Applications):

Do you wish to apply for selective certification for Mainframe Programming (Applications)?

☐ Yes ☐ No

**Definition of Mainframe Programming (Applications) experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of applications in an IBM OS/390 or Unisys OS 1100 Exec environment. Examples include, but are not limited to: CICS, COBOL, DB-2, NATURAL, ADABAS, SPUFI, QMF, JCL, DBMS 1100.

Do you have 18 months of Mainframe Programming (Applications) experience as described above?

☐ Yes ☐ No

If yes, how much? / Year(s)/Month(s) From / Month/Year To / Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐ Box 2 ☐ Box 3 ☐ Box 4 ☐ Box 5 ☐ Box 6 ☐

Section A.4 Selective Certification for Mainframe Programming (Systems):

Do you wish to apply for selective certification for Mainframe Programming (Systems)?

☐ Yes ☐ No

**Definition of Mainframe Programming (Systems) experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of systems in an IBM OS/390 or Unisys OS 1100 Exec environment which supports application developers. Examples include, but are not limited to: OS/390, OS 1100 Exec, ZOS, VM/ESA, ZVM, Linux, SMS, Mapper, CICS, DB-2, DBMS 1100, ADABAS, DASD, DFSMS, DFHSM, VTAM, SNA.

Do you have 18 months of Mainframe Programming (Systems) experience as described above?

☐ Yes ☐ No

If yes, how much? / Year(s)/Month(s) From / Month/Year To / Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐ Box 2 ☐ Box 3 ☐ Box 4 ☐ Box 5 ☐ Box 6 ☐

Section A.5 Selective Certification for Database Administration (Unix):

Do you wish to apply for selective certification for Database Administration (Unix):

☐ Yes ☐ No

**Definition of Database Administration (Unix) experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of database management systems in a Unix environment. Examples include, but are not limited to: Oracle 8i, Informix, and DB-2.

Do you have 18 months of Database Administration (Unix) experience as described above?

☐ Yes ☐ No

If yes, how much? / Year(s)/Month(s) From / Month/Year To / Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐ Box 2 ☐ Box 3 ☐ Box 4 ☐ Box 5 ☐ Box 6 ☐
Section A.6: Selective Certification for Database Administration (Windows):

Do you wish to apply for selective certification for Database Administration (Windows):

☐ Yes ☐ No

**Definition of Database Administration (Windows) experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of database systems in a Windows 2000 environment and above. Examples include, but are not limited to: Oracle 8i, MS SQL, Informix, and DB-2.

Do you have 18 months of **Database Administration (Windows)** experience as described above?

☐ Yes ☐ No

If yes, how much?  

<table>
<thead>
<tr>
<th>Year(s)/Month(s)</th>
<th>From</th>
<th>To</th>
<th>Month/Year</th>
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Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐  Box 2 ☐  Box 3 ☐  Box 4 ☐  Box 5 ☐  Box 6 ☐

Section A.7: Selective Certification for Database Administration (Mainframe):

Do you wish to apply for selective certification for Database Administration (Mainframe):

☐ Yes ☐ No

**Definition of Database Administration (Mainframe) experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of database management systems in an IBM OS/390 or Unisys OS 1100 Exec environment. Examples include, but are not limited to: Oracle 8i, DB-2, ADABAS, DBMS 1100.

Do you have 18 months of **Database Administration (Mainframe)** experience as described above?

☐ Yes ☐ No

If yes, how much?  

<table>
<thead>
<tr>
<th>Year(s)/Month(s)</th>
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<th>Month/Year</th>
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Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐  Box 2 ☐  Box 3 ☐  Box 4 ☐  Box 5 ☐  Box 6 ☐

Section A.8: Selective Certification for Novell-Based LAN Administration Services:

Do you wish to apply for selective certification for Novell-Based LAN Administration Services?

☐ Yes ☐ No

**Definition of Novell-Based LAN Administration Services experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of robust and secure Novell 5 (and above) Local Area Network (LAN) environments. Examples include, but are not limited to: Netware 5 (and above), GroupWise.

Do you have 18 months of **Novell-Based LAN Administration Services** experience as described above?

☐ Yes ☐ No

If yes, how much?  

<table>
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<tr>
<th>Year(s)/Month(s)</th>
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<th>Month/Year</th>
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Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐  Box 2 ☐  Box 3 ☐  Box 4 ☐  Box 5 ☐  Box 6 ☐
Section A.9: **Selective Certification for Windows Server-Based LAN Administration Services**:  
Do you wish to apply for selective certification for **Windows Server-Based LAN Administration Services**?  
☐ Yes ☐ No

**Definition of Windows Server-Based LAN Administration Services experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of robust and secure production Windows 2000 (and above) Local Area Network (LAN) environments. Examples include, but are not limited to: Windows 2000 Server (and above), Citrix Server Systems.

Do you have 18 months of **Windows Server-Based LAN Administration Services** experience as described above?  
☐ Yes ☐ No

If yes, how much?  
Year(s)/Month(s)  
From  
Month/Year  
To  
Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐  Box 2 ☐  Box 3 ☐  Box 4 ☐  Box 5 ☐  Box 6 ☐

Section A.10: **Selective Certification for WAN Services**:  
Do you wish to apply for selective certification for **WAN Services**?  
☐ Yes ☐ No

**Definition of WAN Services experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of robust and secure Wide Area Network (WAN) environments. Examples include, but are not limited to: TCP/IP, ATM, 802.11 wireless, 802.Q VLAN, SNMP, IP Telephony, OSPF, IPSEC, SSL, DNS, and HTTP protocols; IP Subnetting, IP Routing, TCP/IP traffic analysis, Log analysis, Vulnerability analysis, Penetration testing, Network Forensics and Network programming/scripting; HP OpenView, Tivoli Netview, NAI Sniffer, TCPdump, Etherereal, Snort NIDS, PureSecure, MRTG, Check Point Firewall, IPTables Firewall, VelociRaptor Application Firewalls, Nessus, Nmap, THC, FireWalk, Syslog, SARA, SAINT, Whisker CGI scanner, LogWatch, LogSurfer, Hpинг2, Doniff, John the Ripper, Sam Spade, Tripwire, L0phtCrack, LSOF, Honeyd, LaBrea, Fragroute, TCT, EnCase, McAfee; Layer 2 switching, Layer 3 switching, routers, fiber optic switches, content switches, hardware load balancers, and VPN concentrators.

Do you have 18 months of **WAN Services** experience as described above?  
☐ Yes ☐ No

If yes, how much?  
Year(s)/Month(s)  
From  
Month/Year  
To  
Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐  Box 2 ☐  Box 3 ☐  Box 4 ☐  Box 5 ☐  Box 6 ☐

Section A.11: **Selective Certification for Unix Administration**:  
Do you wish to apply for selective certification for **Unix Administration**?  
☐ Yes ☐ No

**Definition of Unix Administration experience:** At least 18 months experience in the design, development, implementation, maintenance and enhancement of robust and secure UNIX environments. Examples include, but are not limited to: Solaris 8 (and above), AIX, Linux, Apache webserver, Tomcat, Websphere, Bind, Sendmail; SAN Architecture concepts, Veritas SAN/Volume Manager, Storage Arrays, SAN hardware and software, Cluster Architecture, Veritas Cluster; Veritas Netbackup-, shell language (Korn, Bourne, C), C++, and Perl.

Do you have 18 months of **Unix Administration** experience as described above?  
☐ Yes ☐ No

If yes, how much?  
Year(s)/Month(s)  
From  
Month/Year  
To  
Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 ☐  Box 2 ☐  Box 3 ☐  Box 4 ☐  Box 5 ☐  Box 6 ☐
Section A.12: Selective Certification for Security Administration:

Do you wish to apply for selective certification for Security Administration? □ Yes □ No

Definition of Security Administration experience: At least 18 months experience in the design, development, implementation, maintenance and enhancement of Information Technology Security Products for a robust and secure production environment. Domains of experience include, but are not limited to: Information Security Program Management, Access Control Systems & Methodology, Applications & Systems Development, Cryptography, Operations Security, Security Architecture & Models, Telecommunications, Network & Internet Security. Examples include, but are not limited to: Firewalls, Security Scanners such as Nessus and Saint, PGP and/or GPG, SSL certificates, VPN concentrators, RADIUS, TACACS, securing operating systems and LDAP, Enterprise virus mitigation with antivirus products such as NAI, Trend or Symantec, IDS systems, TCP/IP internals, packet sniffers, penetration testing.

Do you have 18 months of Security Administration experience as described above? □ Yes □ No

If yes, how much? __________/__________ From _________/__________ To _________/__________

Year(s)/Month(s) Month/Year Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 □  Box 2 □  Box 3 □  Box 4 □  Box 5 □  Box 6 □

Section A.13: Selective Certification for Synon Case Tool Experience:

Do you wish to apply for selective certification for Synon Case Tool Experience? □ Yes □ No

Definition of Synon Case Tool experience: At least 18 months experience in using the Synon Case Tool and knowledge of relational database concepts and the data modeling concepts that are specific to Synon. Examples include: Cool/2E, Synon 2E, Advantage/2E.

Do you have 18 months of Synon Case Tool experience as described above? □ Yes □ No

If yes, how much? __________/__________ From _________/__________ To _________/__________

Year(s)/Month(s) Month/Year Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 □  Box 2 □  Box 3 □  Box 4 □  Box 5 □  Box 6 □

Section A.14: Selective Certification for Internet and Emerging Technologies

Do you wish to apply for selective certification for Internet and Emerging Technologies? □ Yes □ No

Definition of Internet and Emerging Technologies Experience: At least 18 months experience configuring, programming, testing, debugging, implementing, documenting, maintaining, and/or troubleshooting applications in a web-based environment. Examples include, but are not limited to: HTML, XML, JavaScript, Perl, Crystal, Oracle2000, Cold Fusion.

Do you have 18 months of Internet and Emerging Technologies experience as described above? □ Yes □ No

If yes, how much? __________/__________ From _________/__________ To _________/__________

Year(s)/Month(s) Month/Year Month/Year

Check each box which corresponds to the box(es) on the Education and Experience Test Paper that qualifies you for this selective certification:

Box 1 □  Box 2 □  Box 3 □  Box 4 □  Box 5 □  Box 6 □
PART II: PROFESSIONAL CERTIFICATIONS

If you hold a professional certification in any of the areas listed below, you may be eligible for additional credit as noted below. **A single professional certification can be equated to 18 months of experience for additional credit. You may receive additional credit for ONE professional certification ONLY.** If you hold a professional certification in any of these areas, you may also be eligible for selective certification. If you claim a professional certification for additional credit, you may also claim that professional certification, and any others that you have received, for selective certification.

In order to receive additional credit, or to be considered for selective certification, place a check on the line corresponding to each certification which you hold and **attach a copy of each certification to this Special Insert.** Additional credit, or consideration for selective certification will not be granted unless copies of certifications are attached to this Special Insert.

After the minimum requirements are met, the following industry-standard documented professional certifications will equate, for exam scoring purposes, to 18 months of experience:

**BROWSER-BASED APPLICATIONS DEVELOPMENT TECHNOLOGIES:**

<table>
<thead>
<tr>
<th>Certification</th>
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<tbody>
<tr>
<td>Actuate Certified Professional Developer (Version 7)</td>
</tr>
<tr>
<td>BEA 8.1 Certified Administrator-System Administration</td>
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<tr>
<td>BEA 8.1 Certified Architect-Enterprise Architect</td>
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<tr>
<td>BEA 8.1 Certified Developer-Build Solutions</td>
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<tr>
<td>BEA 8.1 Certified Developer-Portal Solutions</td>
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<tr>
<td>BEA 8.1 Certified Developer-Integration Solutions</td>
</tr>
<tr>
<td>Certified ColdFusion MX Developer</td>
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<tr>
<td>Cognos Access Manager</td>
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<tr>
<td>Cognos Consolidated Product Professional</td>
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<tr>
<td>Cognos DecisionStream</td>
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<tr>
<td>Cognos Impromptu Product Professional</td>
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<tr>
<td>Cognos Metrics Manager Product Professional</td>
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<td>Cognos PowerPlay Product Professional</td>
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<tr>
<td>Cognos Planning Analyst Product Professional</td>
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<tr>
<td>Cognos Planning Contributor Product Professional</td>
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<tr>
<td>Cognos ReportNet Product Professional-Administration Track</td>
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<tr>
<td>Cognos ReportNet Product Professional-Modeling Track</td>
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<tr>
<td>Cognos ReportNet Product Professional-Reporting Track</td>
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<tr>
<td>Cognos Upfront Product Professional</td>
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<tr>
<td>Cognos Visualizer Product Professional</td>
</tr>
<tr>
<td>Filenet P8 Certified: Administrator</td>
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<tr>
<td>Filenet P8 Certified: Developer</td>
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<tr>
<td>Filenet P8 Certified: Technical Support</td>
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<tr>
<td>IBM Certified Advanced System Administrator-WebSphere Application Server V5.0</td>
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<td>IBM Certified Advanced System Administrator-WebSphere Application Server Z/OS V5.0</td>
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<tr>
<td>IBM Certified Enterprise Developer-WebSphere Studio V5.0</td>
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<tr>
<td>IBM Certified Lotus Notes R5 Application Developer</td>
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<tr>
<td>IBM Certified Solutions Designer-WebSphere MQ V5.3</td>
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<td>IBM Certified Solutions Developer-WebSphere MQ V5.3</td>
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<td>IBM Certified Solutions Developer-WebSphere Studio V5.0</td>
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<td>IBM Certified Solutions Developer-Web Services Development with WebSphere Studio V5.1</td>
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<td>IBM Certified Specialist-WebSphere MQ Integrator</td>
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<td>IBM Certified System Administrator-WebSphere Application Server V5.0</td>
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<tr>
<td>IBM Certified System Administrator-WebSphere MQ V5.3</td>
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<tr>
<td>Interwoven Certification</td>
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<tr>
<td>Oracle 9i Forms Developer Certified Professional</td>
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<tr>
<td>Peoplesoft Certified Developer</td>
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<td>Siebel Certified Application Developer</td>
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<td>Siebel Certified Business Analyst</td>
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<td>Siebel Certified Consultant/Siebel Certified Instructor</td>
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<tr>
<td>Siebel Certified Data Warehouse Developer</td>
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<tr>
<td>Siebel Certified Master Analytics Consultant</td>
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<tr>
<td>Siebel Certified Server Architect</td>
</tr>
<tr>
<td>Sun Certified Business Component Developer for Java 2 Platform, Enterprise Edition 1.3</td>
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<tr>
<td>Sun Certified Developer for Java 2 Platform</td>
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<tr>
<td>Sun Certified Developer for Java Web Services</td>
</tr>
<tr>
<td>Sun Certified Enterprise Architect for J2EE (Enterprise Edition) Technology</td>
</tr>
<tr>
<td>Sun Certified Mobile Applications Developer for the Java 2 Platform Micro Edition</td>
</tr>
<tr>
<td>Sun Certified Web Component Developer for J2EE (Enterprise Edition) Platform</td>
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</tbody>
</table>
NON-BROWSER-BASED APPLICATIONS DEVELOPMENT TECHNOLOGIES:

- Microsoft Certified Applications Developer for .Net (MCAD)
- Microsoft Certified Solutions Developer for .Net (MCSD)
- Microsoft Certified Solutions Developer for Visual Studio 6.0 (MCSD)
- Sybase Powerbuilder V8 Associate
- Sybase Powerbuilder V7 Professional
- Sybase Powerbuilder V9 Professional

MAINFRAME PROGRAMMING (APPLICATIONS):

- IBM Certified Application Developer-DB2 Universal Database v8.1 Family
- IBM Certified Solutions Expert-DB2 UDB v7.1 Family Application Development

MAINFRAME PROGRAMMING (SYSTEMS):

- IBM Certified Solutions Designer-CICS Enablement for E-Business

DATABASE ADMINISTRATION (UNIX):

- IBM Certified Advanced Database Administrator-DB2 (Universal Database) v8.1 for Linux, Unix, and Windows.
- IBM Certified Database Administrator-DB2 UDB (Universal Database) v8.1 for Linux, Unix, and Windows.
- IBM Certified Solutions Designer-DB2 Business Intelligence V8
- IBM Certified Solutions Expert-DB2 Content Manager OnDemand iSeries
- IBM Certified Solutions Expert-DB2 Content Manager OnDemand Multiplatform
- IBM Certified Solutions Expert DB2 UDB (Universal Database) V7.1 Database Administration for Unix, Windows, and OS/2
- IBM Certified Solutions Expert–Informix Dynamic Server v.7 System Administrator
- IBM Certified Solutions Expert–Informix Dynamic Server v.9 System Administrator
- IBM Certified Solutions Expert–Informix Dynamic Server v.9 System Administrator
- Oracle 8i Certified Professional Database Administrator
- Oracle 9i DBA Oracle Certified Professional (OCP)
- Oracle 9i Database Administrator Certified Master

DATABASE ADMINISTRATION (WINDOWS):

- IBM Certified Advanced Database Administrator-DB2 (Universal Database) v8.1 for Linux, Unix, and Windows.
- IBM Certified Database Administrator-DB2 UDB (Universal Database) v8.1 for Linux, Unix, and Windows.
- IBM Certified Solutions Designer-DB2 Business Intelligence V8
- IBM Certified Solutions Expert-DB2 Content Manager OnDemand iSeries
- IBM Certified Solutions Expert-DB2 Content Manager OnDemand Multiplatform
- IBM Certified Solutions Expert DB2 UDB (Universal Database) V7.1 Database Administration for Unix, Windows, and OS/2
- IBM Certified Solutions Expert–Informix Dynamic Server v.7 System Administrator
- Microsoft Certified Database Administrator (MCDBA)
- Oracle 8i Certified Professional Database Administrator
- Oracle 9i DBA Oracle Certified Professional (OCP)
- Oracle 9i Database Administrator Certified Master

DATABASE ADMINISTRATION (MAINFRAME):

- IBM Certified Advanced Database Administrator-DB2 (Universal Database) v8.1 for Linux, Unix, and Windows.
- IBM Certified Database Administrator-DB2 UDB (Universal Database) v8.1 for Linux, Unix, and Windows.
- IBM Certified Solutions Designer-DB2 Business Intelligence V8
- IBM Certified Solutions Expert-DB2 Content Manager OnDemand iSeries
- IBM Certified Solutions Expert-DB2 Content Manager OnDemand Multiplatform
- IBM Certified Solutions Expert DB2 UDB (Universal Database) V7.1 Database Administration for OS/390 Z/OS.
- IBM Certified Solutions Expert DB2 UDB (Universal Database) V7.1 Database Administration for Unix, Windows, and OS/2
- IBM Certified Solutions Expert–Informix Dynamic Server v.7 System Administrator
- IBM Certified Solutions Expert–Informix Dynamic Server v.9 System Administrator
- Oracle 8i Certified Professional Database Administrator
- Oracle 9i DBA Oracle Certified Professional (OCP)
- Oracle 9i Database Administrator Certified Master

Page 7 of 10
NOVELL-BASED LAN ADMINISTRATION SERVICES:

________ Novell Certified Network Administrator (CNA) 5.0
________ Novell Certified Network Administrator (CNA) 6.0
________ Novell Certified Network Engineer (CNE) 5.0
________ Novell Certified Network Engineer (CNE) 6.0
________ Novell Certified Linux Engineer (CLE)
________ Novell Master Certified Network Engineer (CNE) 5.0
________ Novell Master Certified Network Engineer (CNE) 6.0

WINDOWS SERVER-BASED LAN ADMINISTRATION SERVICES:

________ Citrix Certified Administrator (CCA)
________ Citrix Certified Enterprise Administrator (CCEA)
________ Citrix Certified Integration Architect (CCIA)
________ GIAC Certified Windows Security Administrator (GCWN)
________ Microsoft Certified Systems Administrator (MCSA) Windows 2000
________ Microsoft Certified Systems Administrator (MCSA) Windows 2000 w/Security Specialization
________ Microsoft Certified Systems Administrator (MCSA) Windows 2000 w/Messaging on Windows 2000 Specialization
________ Microsoft Certified Systems Administrator (MCSA) Windows 2003
________ Microsoft Certified Systems Administrator (MCSA) Windows 2003 w/Security Specialization
________ Microsoft Certified Systems Administrator (MCSA) Windows 2003 w/Messaging on Windows 2003 Specialization
________ Microsoft Certified Systems Engineer (MCSE) Windows 2000
________ Microsoft Certified Systems Engineer (MCSE) Windows 2000 w/Security Specialization
________ Microsoft Certified Systems Engineer (MCSE) Windows 2000 w/Messaging on Windows 2000 Specialization
________ Microsoft Certified Systems Engineer (MCSE) Windows 2003
________ Microsoft Certified Systems Engineer (MCSE) Windows 2003 w/Security Specialization
________ Microsoft Certified Systems Engineer (MCSE) Windows 2003 w/Messaging on Windows 2003 Specialization

WAN SERVICES:

________ Brocade Certified Fabric Professional V2.6/3.1/4.1
________ Brocade Certified SAN Designer (BCSD) V2.6-4.2
________ Brocade Certified Manager (BCSM) V3.0
________ Check Point Certified Managed Security Expert (CCMSE)
________ Check Point Certified Managed Security Expert Plus VSX-CCMSE Plus VSX
________ Check Point Certified Security Expert (CCSE)
________ Check Point Certified Security Expert Plus: Enterprise Integration and Troubleshooting (CCSE Plus)
________ Cisco Certified Design Professional
________ Cisco Certified Internetwork Expert (CCIE)
________ Cisco Certified Internetwork Expert (CCIE) Security
________ Cisco Certified Internetwork Expert (CCIE) Routing and Switching
________ Cisco Certified Internetwork Expert (CCIE) Service Provider
________ Cisco Certified Internetwork Professional (CCIP)
________ Cisco Certified Network Professional (CCNP)
________ Cisco Certified Security Professional (CCNP)
________ CompTIA Security+
________ Enterasys Certified Internetworking Engineer (ECIE)
________ Enterasys Security Specialist Engineer (ESSE)
________ Enterasys Systems Engineer (ESE)
________ Foundry Networks Certified Network Engineer (FNCNE)
________ Foundry Networks Certified Network Professional (FNCNP)
________ GIAC Certified Intrusion Analyst (GClA)
________ GIAC Certified ISO-17799 Specialist (G7799)
________ GIAC Certified Incident Handler (GCIH)
________ GIAC Certified Firewall Analyst (GCFW)
________ GIAC Certified Forensic Analyst (GCF)
________ GIAC Certified Security Leadership (GSLC)
________ GIAC Certified UNIX Security Leadership (GSLC)
________ GIAC Certified Windows Security Administrator (GCWN)
________ GIAC IT Security Audit Essentials (GSAE)
________ GIAC Security Essentials Certification (GSEC)
________ GIAC Security Expert (GSE)
________ GIAC Solaris Gold Standard Certificate (GHSC-0200)
________ GIAC Systems and Network Auditor (GSNA)
GIAC Windows 2000 Gold Standard Certificate (CGSC-0100)
HP-UX Certified System Administrator (CSA) Certification
HP-UX Certified System Engineer (CSE) Certification
IBM Certified Specialist-p Series AIX System Administration
IBM Certified Advanced Technical Expert-p series and AIX 5L
Information Systems Audit and Control Association (ISACA) Certified Information Security Manager (CISM)
Information Systems Audit and Control Association (ISACA) Certified Information Systems Auditor (CISA)
Linux Professional Institute (LPI) Intermediate Level Administration (LPIC2)
Linux Professional Institute (LPI) Senior Level Administration (LPIC3)
Microsoft Certified Systems Administrator (MCSA) Windows 2000
Network Associates (NAI) Sniffer Certified Expert (SCE)
Network Associates (NAI) Sniffer Certified Master (SCM)
Nortel Networks Certified Architect (NNCA)
Nortel Networks Certified Design Expert (NNCDE)-Alteon Security
Nortel Networks Certified Design Expert (NNCDE)-Contivity Security
Nortel Networks Certified Design Expert (NNCDE)-Convergence Succession 1000/1000M Rls.3.0
Nortel Networks Certified Design Expert (NNCDE)-IP Convergence Meridian I IP Enabled 25.40
Nortel Networks Certified Support Expert (NNCSE)-Alteon Security
Nortel Networks Certified Support Expert (NNCSE)-Contivity Security
Nortel Networks Certified Support Expert (NNCSE)-Contact Center
Nortel Networks Certified Support Expert (NNCSE)-IP Convergence CallPilot 2.0 Unified Messaging Solutions
Nortel Networks Certified Support Expert (NNCSE)-IP Convergence Meridian I IP Enabled 25.40
Red Hat Certified Engineer
Sun Certified Network Administrator 8.0
Sun Certified Network Administrator 9.0
Sun Certified Security Administrator for the Solaris 9 Operating System
Sun Certified System Administrator for the Solaris 8 Operating System
Sun Certified System Administrator for the Solaris 9 Operating System

UNIX ADMINISTRATION:
GIAC Certified UNIX Security Leadership (GSLC)
HP-UX Certified System Administrator (CSA) Certification
HP-UX Certified System Engineer (CSE) Certification
IBM Certified Specialist-p Series AIX System Administration
IBM Certified Advanced Technical Expert-p series and AIX 5L
Linux Professional Institute (LPI) Intermediate Level Administration (LPIC2)
Linux Professional Institute (LPI) Senior Level Administration (LPIC3)
Red Hat Certified Engineer
Sun Certified Network Administrator 8.0
Sun Certified Network Administrator 9.0
Sun Certified Security Administrator for the Solaris 9 Operating System
Sun Certified System Administrator for the Solaris 8 Operating System
Sun Certified System Administrator for the Solaris 9 Operating System

SECURITY ADMINISTRATION:
Check Point Certified Managed Security Expert (CCMSE)
Check Point Certified Managed Security Expert Plus VSX-CCMSE Plus VSX
Check Point Certified Security Expert (CCSE)
Check Point Certified Security Expert Plus: Enterprise Integration and Troubleshooting (CCSE Plus)
Cisco Certified Internetwork Expert (CCIE) Security
Cisco Certified Security Professional (CCNP)
ComTIA Security+
GIAC Certified Intrusion Analyst (GCIA)
GIAC Certified ISO-17799 Specialist (G7799)
GIAC Certified Incident Handler (GCIH)
GIAC Certified Firewall Analyst (GCFW)
GIAC Certified Forensic Analyst (GCFIA)
GIAC Certified Security Leadership (GSLC)
GIAC Certified UNIX Security Leadership (GSLC)
GIAC Certified Windows Security Administrator (GCWN)
GIAC IT Security Audit Essentials (GSAE)
GIAC Security Essentials Certification (GSEC)
GIAC Security Expert (GSE)
GIAC Solaris Gold Standard Certificate (GGSC-0200)
GIAC Systems and Network Auditor (GSNA)
GIAC Windows 2000 Gold Standard Certificate (CGSC-0100)
Information Systems Audit and Control Association (ISACA) Certified Information Security Manager (CISM)
Information Systems Audit and Control Association (ISACA) Certified Information Systems Auditor (CISA)
Microsoft Certified Systems Administrator (MCSA) Windows 2000 w/ Security Specialization
Microsoft Certified Systems Administrator (MCSA) Windows 2003 w/ Security Specialization
Microsoft Certified Systems Engineer (MCSE) Windows 2000 w/ Security Specialization
Microsoft Certified Systems Engineer (MCSE) Windows 2003 w/ Security Specialization
Network Associates (NAI) Sniffer Certified Expert (SCE)
Network Associates (NAI) Sniffer Certified Master (SCM)
Nortel Networks Certified Design Expert (NNCDE)-Alteon Security
Nortel Networks Certified Design Expert (NNCDE)-Contivity Security
Nortel Networks Certified Support Expert (NNCSE)-Alteon Security
Nortel Networks Certified Support Expert (NNCSE)-Contivity Security
Sun Certified Security Administrator for the Solaris 9 Operating System