

INFORMATION TECHNOLOGY EVENTS

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Computer Network Technology (40)

Description

Demonstrate knowledge in fundamental networking concepts including network architecture, standards, topologies, protocols, and security.

Eligibility

Any student may enter this event.

<p>Contestant must supply No. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html. <u>Contestants who violate this rule will be disqualified.</u> Published and/or unpublished written reference materials</p>	<p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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The contestant may demonstrate knowledge and skills in the following:

- OSI model
- Network adapters
- Network cabling
- Bridges, routers, and routers
- Network connectivity
- Network troubleshooting
- Network protocols
- TCP/IP subnetting and routing
- DNS
- WINS
- DHCP
- Proxies and firewalls
- Troubleshooting tools
- Remote access protocols
- Network operating systems
- Network clients
- Directory services
- Administrative utilities

Method of evaluation:

- Objective

Entries:

- Each state is allowed five (5) entries.

CISCO® Systems Administration (41)

Description

Demonstrate knowledge of fundamental network management tasks in a CISCO® environment.

Eligibility

Any student may enter this event.

<p>Contestant must supply Sharpened no. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html <u>Contestants who violate this rule will be disqualified.</u> Published and/or unpublished written reference materials.</p>	<p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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The contestant may demonstrate knowledge and skills in the following:

- OSI model
- Router configuration
- Network management
- LAN/WAN design
- LAN/WAN security
- Network topologies
- LAN/WAN routed and routing protocols
- Network components
- LAN/WAN switching theory and VLANS

Method of evaluation:

- Objective

Length of event:

- No more than 60 minutes testing time

Entries:

- Each state is allowed five (5) entries.

Network Administration Using Microsoft (42)

Description

Demonstrate knowledge of fundamental network management and maintenance tasks in a Windows® network.

Eligibility

Any student may enter this event.

<p>Contestant must supply Sharpened no. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html. <u>Contestants who violate this rule will be disqualified.</u> Published and/or unpublished written reference materials.</p>	<p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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The contestant may demonstrate knowledge and skills in the following:

- Troubleshoot Windows XP® with SP2 and Win Server 2003 operating systems installation
- Monitor, manage, and troubleshoot access to files and folders
- Manage and troubleshoot access to shared folders
- Manage printers and print jobs
- Configure and manage file systems
- Monitor and optimize system performance and reliability
- Recover system state data and user data
- Configure and troubleshoot the desktop environment
- Encrypt data on a hard disk by using Encrypting File Systems (EFS)
- Implement, configure, manage, and troubleshoot local security policy
- Monitor, configure, troubleshoot, and control access to Web sites
- Configure and troubleshoot hardware devices and drivers
- Configure and troubleshoot Windows® Network connections
- Configure, monitor, and troubleshoot remote access
- Configure inbound connections
- Implement, configure, manage, and troubleshoot policies in a Windows® environment
- Implement, configure, manage, and troubleshoot auditing

Method of evaluation:

- Objective

Length of event:

- No more than 60 minutes testing time

Entries:

- Each state is allowed five (5) entries.

C++ Programming (43)

Description

Evaluate knowledge of working with structured designs, algorithms, and OOP methodology.

Eligibility

Any student may enter this event.

<p>Contestant must supply: Microcomputer or laptop/notebook A full-size keyboard may be used. Electrical power will be provided. Carry-in and setup of equipment must be done solely by the contestant and must take place within the time allotted for orientation/warm-up. Contestant must bring all supporting devices and software appropriate for the event (e.g., extension cords, power supply, IDE etc). Published and/or unpublished written reference materials maybe used.</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Demonstrate understanding of general computer concepts and computer language
- Use programming skills for proper development of a computer program
- Demonstrate knowledge of C++/C# computer language
- Implement program logic (algorithms, structured design),
- Apply basic business applications
- Create a C++ /C# program using calculations, totals, selection, logical operators, classes, sequential file access, I/O operations, data structures, and loops

Method of evaluation:

- Application

Length of event:

- No more than 90 minutes testing time for computerized application test

Entries:

- Each state is allowed five (5) entries.

VB.NET Programming (44)

Description

Evaluate knowledge of working with VB syntax, programming logic, program development, system design concepts, database, VB.NET IDE Report Writers, designers and objects.

Eligibility

Any student may enter this event.

<p>Contestant must supply Microcomputer or laptop/notebook Electrical power will be provided. Carry-in and setup of equipment must be done solely by the contestant and must take place within the time allotted for orientation/warm-up. Contestant must bring all supporting devices and software appropriate for the event (e.g., extension cords, power supply, IDE etc). Published and/or unpublished written reference materials.</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Demonstrate knowledge of object oriented concepts and techniques
- Demonstrate understanding of general computer concepts and computer language.
- Demonstrate knowledge of VB.NET programming language, concepts and syntax
- Demonstrate knowledge of native VB.NET designers and tools
- Demonstrate knowledge of database concepts and Access 2007
- Demonstrate knowledge of the integration of XML data into a VB.Net program
- Demonstrate knowledge of native VB.NET IDE report generators
- Use structured design techniques, algorithms, and object-oriented concepts
- Integrate a backend data store into a VB.NET GUI
- Create reports within a VB.NET application that utilizes a database as source data
- Create a VB.NET program/GUI using variables, looping, controls, logical operations, calculations, totals, sequence, data structures, selection, and I/O operations

Method of evaluation:

- Application development from a given a problem scenario

Length of event:

- No more than 90 minutes testing time for computerized application test

Entries:

- Each state is allowed five (5) entries.

JAVA Programming (45)

Description

Utilize structured designs to develop software using the JAVA programming language.

Eligibility

Any student may enter this event.

<p>Contestant must supply Microcomputer or laptop/notebook. A full-size keyboard may be used. Electrical power will be provided. Carry-in and setup of equipment must be done solely by the contestant and must take place within the time allotted for orientation/warm-up. Contestant must bring all supporting devices and software appropriate for the event (e.g., extension cords, power supply, IDE etc). Published and/or unpublished written reference materials may be used</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Demonstrate understanding of general computer concepts and computer language
- Use programming skills for proper development of a computer program
- Demonstrate knowledge of JAVA computer language
- Use JAVA computer language concepts and syntax
- Use structured design techniques and object-oriented concepts
- Create a JAVA program using sequence, selection, and repetition structures
- Apply programming concepts such as classes, operators, loops, control breaks, sequential file access, data structures, error handling, and I/O operations

Method of evaluation:

- Application

Length of event:

- No more than 90 minutes testing time for computerized application test

Entries:

Each state is allowed five (5) entries.

Fundamentals of Web Design (46)

Description

Demonstrate knowledge of fundamental web design coding and syntax.

Eligibility

Any student may enter this event.

<p>Contestant must supply Sharpened no. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html. <u>Contestants who violate this rule will be disqualified.</u> Published and/or unpublished written reference materials</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Contestant may demonstrate knowledge and skills in the following:

- Use tags
- Format & font (CSS)
- W3C Accessibility Standards
- Cross-Browser Capability
- Image tag
- Establish a link
- Image map
- Tables
- Set attributes
- Cell padding
- Captions

Equipment/supplies provided:

- Microcomputer

Method of evaluation:

- Objective
- Application

Length of event:

- No more than ten (10) minutes orientation
- No more than 90 minutes testing time
- No more than (10) minutes wrap-up

Entries:

- Each state is allowed five (5) entries.

PC Servicing & Troubleshooting (47)

Description

Demonstrate knowledge of PC configuration, maintenance, and management as a computer technician.

Eligibility

Any student may enter this event.

<p>Contestant must supply Sharpened no. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html. <u>Contestants who violate this rule will be disqualified.</u> Published and/or unpublished written reference materials</p>	<p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Identifying PC components
- Adding and removing components
- System resources
- Peripheral ports
- IDE devices
- SCSI devices
- Other peripheral devices
- Replacing system components
- Troubleshooting problems, preventative maintenance and safety
- RAM characteristics
- System board characteristics
- Printer characteristics
- Basic networking concepts
- OS functions and OS upgrades
- Disk/file management
- Windows® installation
- Booting procedures
- Configuring device drivers
- Error codes
- Internet configuration

Equipment/supplies provided:

- Toolkit for hands-on component at National level

Method of evaluation:

- Objective; a hands-on component may be added to the event at the State level and will be added to the event during National level competition

Length of event:

- No more than 60 minutes for objective test
- No more than 60 minutes for hands-on tasks

Entries:

- Each state is allowed five (5) entries.

Computer Security (48)

Description

Demonstrate knowledge of fundamental security management tasks in Windows and Linux networking environments.

Eligibility

Any student may enter this event.

<p>Contestant must supply No. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html. <u>Contestants who violate this rule will be disqualified.</u></p>	<p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Demonstrate knowledge of security threats
- Understand infrastructure security
- Demonstrate knowledge of cryptography, access control and authentication
- Demonstrate security tactics to prevent against external attack
- Demonstrate knowledge of operational and organization security
- Identify security threats
- Demonstrate hardening internal Windows and Linux systems and services
- TCP/IP knowledge
- Demonstrate hardening Internet work devices and services
- Network defense fundamental
- Creating security policies
- Performing a risk analysis
- Biometrics
- Cryptography
- Router and access control lists
- Internet security issues
- Managing Certificates
- Monitoring security infrastructure

Method of evaluation:

- Objective; a hands-on component may be added to the event at the State level and will be added to the event during National level competition

Length of event:

- No more than 60 minutes for objective test
- No more than 60 minutes for hands-on tasks

Entries:

- Each state is allowed five (5) entries.

Digital Media Production (49)

Description

Create a one to two (1-2) minute digital media production based upon the assigned topic below.

Eligibility

Any student may enter this event. Students participating in National Level Competition must be registered for the event prior to submission deadline for technical judging.

Contestant must supply Microcomputer or laptop/notebook with speakers. Electrical power will be provided. Carry-in and set-up of equipment must be done solely by the contestant and must take place within the time allotted for orientation/warm-up. Contestant must bring all supporting devices (e.g., extension cords, power supply, etc).	Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u>
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Competencies:

- Demonstrate utilization of various software applications
- Demonstrate knowledge of digital media
- Demonstrate knowledge of graphic design including color, animation, audio, and video

Specifications

- The student will develop a visual communication tool utilizing various software applications related to digital production.
- A copy of the Digital Media Production Form, Release form(s) and CD or DVD bearing the production must presented be at the time of the presentation at the NLC at both Preliminary and Final Competition. The production must be in an executable file format on a CD-ROM or DVD. For CD-ROM only, a README file must be included which states the program and platform used.
- The student may utilize audio, text, video, graphics, and animation.
- School names should not be visible on any equipment, screen savers, etc., utilized during presentations in front of judges.
- Use of transitions and continuity must exist in the production.
- The contestant is responsible for securing a release form from any person whose image is used in the production.
- All text/graphics materials must follow the organization's Graphic Standards and make proper use of the logo and/or organization's name. (Refer to the Graphic Standards in the *Style & Reference Manual*.) National Business Professionals of America grants permission for the use of the logo and/or organization's name.
- It is the policy of Business Professionals of America to comply with state and federal copyright laws, which are available on the Web at www.copyright.gov/title17/circ92.pdf. Use the Copyright and Fair Use Guidelines in the *Style & Reference Manual*. **Contestant(s) will be DISQUALIFIED for violations of the Copyright and Fair Use Guidelines.**

Topic

Create a one to two (1-2) minute promotional piece for the Business Professionals of America National Leadership Conference in Washington, DC: May 3-7, 2011.

Contestants who do not submit an entry that follows this topic will be disqualified.

Method of evaluation:

- Application (judges' rating sheet)

Length of event:

- No more than ten (10) minutes for set-up/wrap-up
- No more than ten (10) minutes for presentation, which includes one to two (1-2) minute demonstration of digital media production
- No more than five (5) minutes for judges' questions
- Finals may be included at State and National levels.

Entries:

- Each state is allowed three (3) entries.

Please note:

Those students who wish to receive judges' comments must submit a self-addressed, stamped envelope to the administrator at the time of competition.

Digital Media Production (49) Documentation Form

Key the information below and check the address for accuracy. NO HANDWRITTEN FORMS WILL BE ACCEPTED.

Please note: The Contestant Number is the same as the Member Number in the BPA On-line Registration System.

Contestant Name: _____

Contestant Number: _____

I, the undersigned, attest that the design, creation, and implementation of this Digital Media Production are my original work. Furthermore, I attest that the production is in accordance with Copyright and Fair Use Guidelines.

I consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America National Center.

Member Signature:

Advisor Signature:

Digital Media Production Release Form (49)

I hereby consent irrevocably to the use and reproduction of any and all photographs or video taken of me in any form whatsoever for the Business Professionals of America Video Production competition.

I have read this document and am fully aware of the content and implications, legal and otherwise.

Please print the following:

Name

Address

City, State, ZIP

Signature(s):

Signature

Date _____ / _____ / _____
(Month) (Day) (Year)

Signature of Parent or Guardian
(If person is under 18 years of age)

Date _____ / _____ / _____
(Month) (Day) (Year)

Digital Media Production (49) Preliminary Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Production Layout <ul style="list-style-type: none"> Visual organization is easily understood Aesthetic use of colors and fonts Consistent format 	1-9	10-18	19-27	28-35	
Graphics/Media Use <ul style="list-style-type: none"> Enhances theme Creativity through graphic design Originality of graphics Effective use of innovative technology (may include animations) 	1-5	6-10	11-15	16-20	
Content <ul style="list-style-type: none"> Developed through theme Portrays the theme Effectiveness of production 	1-9	10-18	19-27	28-35	
Grammar, Spelling, Punctuation, and Usage (20 points)	0 (3+ errors)	10 (2 errors)	15 (1 error)	20 (0 errors)	
<ul style="list-style-type: none"> Ability to explain the development and design process 	1-12	13-25	26-37	38-50	
<ul style="list-style-type: none"> Ability to explain the use and the development of innovative technology 	1-9	10-18	19-27	28-35	
<ul style="list-style-type: none"> Ability to explain the use and development of media elements (graphics, video, audio, etc.) 	1-7	8-15	16-22	23-30	
PRELIMINARY PRESENTATION POINTS (485 points)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per individual, not per judge.		
<ul style="list-style-type: none"> Presentation lasted no more than ten (10) minutes. 	10	
<ul style="list-style-type: none"> Appropriate equipment and documentation for the interview. 	5	
PRELIMINARY SPECIFICATION POINTS (15 points)		

PRELIMINARY PRESENTATION SCORE:

Judge 1 (485 points) _____

Judge 2 (485 points) _____

DIVIDED BY NUMBER OF JUDGES _____ (485 maximum)

PRELIMINARY SPECIFICATION SCORE:

_____ (15 maximum)

PRELIMINARY TOTAL _____ (500 maximum)

RANK _____

Digital Media Production (49) Final Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Production Layout <ul style="list-style-type: none"> • Visual organization is easily understood • Aesthetic use of colors and fonts • Consistent format 	1-9	10-18	19-27	28-35	
Graphics/Media Use <ul style="list-style-type: none"> • Enhances theme • Creativity through graphic design • Originality of graphics • Effective use of innovative technology (may include animations) 	1-5	6-10	11-15	16-20	
Content <ul style="list-style-type: none"> • Developed through theme • Portrays the theme • Effectiveness of production 	1-9	10-18	19-27	28-35	
Grammar, Spelling, Punctuation, and Usage (20 points)	0 (3+ errors)	10 (2 errors)	15 (1 error)	20 (0 errors)	
<ul style="list-style-type: none"> • Ability to explain the development and design process 	1-12	13-25	26-37	38-50	
<ul style="list-style-type: none"> • Ability to explain the use and the development of innovative technology 	1-9	10-18	19-27	28-35	
<ul style="list-style-type: none"> • Ability to explain the use and development of media elements (graphics, video, audio, etc.) 	1-7	8-15	16-22	23-30	
FINAL PRESENTATION POINTS (485 points)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per individual, not per judge.		
<ul style="list-style-type: none"> • Presentation lasted no more than ten (10) minutes. 	10	
<ul style="list-style-type: none"> • Appropriate equipment and documentation for the interview. 	5	
FINAL SPECIFICATION POINTS (15 points)		

FINAL PRESENTATION SCORE:

Judge 1 (485 points) _____

Judge 2 (485 points) _____

DIVIDED BY NUMBER OF JUDGES _____ (485 maximum)

FINAL SPECIFICATION SCORE:

_____ (15 maximum)

FINAL TOTAL _____ (500 maximum)

RANK _____

Digital Media Production (49) Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

COMMENTS: (to be viewed by contestant)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of his/her competition.)

Computer Animation Team (50)

Description

Create a visualization animation (not to exceed two (2) minutes) based upon the assigned topic below.

Eligibility

Any student may enter this event. A team will consist of 2-4 members. Teams participating in National Level Competition must be registered for the event prior to submission deadline for technical judging.

Contestant must supply Visual display technology in the form of, but not limited to, a desktop/laptop with internal or external speakers, projector, TV and DVD player Props (optional) Carry-in and setup of equipment must be done solely by the contestant and must take place within the time allotted for orientation/warm up. Supporting Devices (e.g., extension cord, power supply, etc.) Electrical power will be provided.	Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u>
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Competencies

- Demonstrate utilization of various editing software, applications.
- Demonstrate development of animation within a story board.
- Demonstrate object color and creating artistic effects.
- Demonstrate textures and special effects.
- Demonstrate knowledge of transitions, audio, and lighting effects.
- Demonstrate proper use in placement of titles and visual effects.
- Demonstrate work skills needed to function in an animation environment.

Specifications:

- The student will develop a visual communication utilizing various software applications related to digital production.
- Place one copy of the Computer Animation Team Documentation Form, one copy of the storyboard (8 ½" x 11"), and one copy of an executable file of the project on DVD in each of two (2) separate sheet protectors. Submit these together in one envelope to the National Center, 5454 Cleveland Avenue, Columbus, OH 43231-4021, postmarked on or before April 1, 2010.
- **Please mark submission with the event name and division.** Teams are encouraged to use certified mail or another traceable method of delivery. Confirmation of receipt cannot be provided by the National Center. Fax or e-mail copies will not be accepted.
- **Contestants must be registered for National-level competition prior to submission of materials. The contestant number must be included as indicated. Materials from non-registered contestants, those missing contestant number and/or projects received after the deadline cannot be accepted. No changes can be made to the project after the date of submission.**

- An additional two copies of the Computer Animation Team Documentation Form, two copies of the storyboard and two copies of all Release Forms must be presented at the time of the presentation at the NLC at both Preliminary and Final Competition.
- Teams may also bring one storyboard (not to exceed 22" x 28") for their use during the presentation.
- The student may utilize audio, text, video, graphics, and animation.
- Use of transitions and continuity must exist in the production.
- The contestant is responsible for securing a release form from any person whose image is used in the production.
- All text/graphics materials must follow the organization's Graphic Standards and make proper use of the logo and/or organization's name. (Refer to the Graphic Standards in the *Style & Reference Manual*.) National Business Professionals of America grants permission for the use of the logo and/or organization's name.
- It is the policy of Business Professionals of America to comply with the Copyright Law of the United States of America, Title 17, Circular 92. Refer to the Copyright and Fair Use Guidelines in the *Style & Reference Manual*. **Contestant(s) will be DISQUALIFIED for violations of the Copyright and Fair Use Guidelines.**

TOPIC

Create a visual animation (not to exceed two (2) minutes that promotes local attractions in Washington D.C.

Contestants who do not submit an entry that follows this topic will be disqualified

Method of evaluation:

- Application (judges' rating sheet)

Length of event:

- No more than ten (10) minutes for setup/wrap-up
- No more than ten (10) minutes for the presentation
- No more than five (5) minutes for judges' questions
- Finals may be included at State and National levels.

Entries:

- Each state is allowed two (2) entries.

Please note:

Those students who wish to receive judges' comments must submit a self-addressed, stamped envelope to the administrator at the time of competition.

Materials submitted for technical judging cannot be returned. It is the local chapter advisor's responsibility to pick up materials submitted at the time of competition. A time and place for material pick-up will be published in the conference program. Any materials not picked up will be destroyed on site.

Computer Animation Team (50) Documentation Form

Key the information below and check the address for accuracy. NO HANDWRITTEN FORMS WILL BE ACCEPTED.

Chapter Name: _____ Chapter Number: _____

Team Members: _____

We, the undersigned, attest that the design, creation, and implementation of this Computer Animation is our original work. Furthermore, we attest that the production is in accordance with Copyright and Fair Use Guidelines.

We consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America National Center.

Computer Software used for production:

We consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America.

Team Signatures:

Team Member Roles:

1. _____

2. _____

3. _____

4. _____

Advisor Signature: _____

Computer Animation Team Release Form (50)

I hereby consent irrevocably to the use and reproduction of any and all photographs taken of me in any form whatsoever for the Business Professionals of America Computer Animation competition.

I have read this document and am fully aware of the content and implications, legal and otherwise.

Please print the following:

Name

Address

City, State, ZIP

Signature(s):

Signature

Date _____ / _____ / _____
(Month) (Day) (Year)

Signature of Parent or Guardian
(If person is under 18 years of age)

Date _____ / _____ / _____
(Month) (Day) (Year)

Computer Animation Team (50) Technical Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Artistic Layout					
• Visual organization is easily understood	1-9	10-18	19-27	28-35	
• Aesthetic use of colors and fonts	1-9	10-18	19-27	28-35	
• Consistent format	1-9	10-18	19-27	28-35	
Appearance					
• Animation has been accurately designed according to the topic	1-9	10-18	19-27	28-35	
• Materials, lighting and finishes appear natural and realistic	1-9	10-18	19-27	28-35	
Animation					
• Squash and Stretch- Illusion of weight and volume is given to the animation as it moves (i.e. tennis ball compressing when hit)	1-9	10-18	19-27	28-35	
• Anticipation- Movement prepares the audience for major actions the animation is about to perform	1-9	10-18	19-27	28-35	
• Staging- Actions clearly communicate to the audience the attitude, mood, reaction or idea of the animation as it relates to the topic, providing continuity	1-9	10-18	19-27	28-35	
• Slow- Out and Slow-In techniques- used to simulate natural movements (i.e. fluid motion)	1-9	10-18	19-27	28-35	
• Secondary Action(s)- used to add dimension to the animation	1-9	10-18	19-27	28-35	
Grammar, Spelling, Punctuation, and Usage (30 points)	0 (3+ errors)	10 (2 errors)	20 (1 error)	30 (0 errors)	
TOTAL TECHNICAL POINTS (380 points)					

Computer Animation Team (50) Preliminary Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
<ul style="list-style-type: none"> Ability of team to explain the development and design process. (i.e. storyboard to finished product) 	1-12	13-24	25-37	38-50	
<ul style="list-style-type: none"> Ability of team to explain the individual effort in the team design process. 	1-4	5-9	10-14	15-20	
<ul style="list-style-type: none"> Ability of team to explain the use of innovative technology and the development of media elements. 	1-7	8-15	16-23	24-30	
TOTAL INTERVIEW POINTS (100 points)					
PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per team, not per judge.					
<ul style="list-style-type: none"> Adheres to Copyright and Fair Use Guidelines. 				15	
<ul style="list-style-type: none"> Presentation lasted no more than ten minutes. 				10	
<ul style="list-style-type: none"> Appropriate equipment and documentation for the interview. 				10	
TOTAL PRESENTATION SPECIFICATION POINTS (35 points)					

PRELIMINARY TOTALS:

Judge 1 (480 points maximum) _____

Judge 2 (480 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

SPECIFICATION POINTS
(35 points maximum) _____

TOTAL (515 points maximum) _____

RANK _____

Computer Animation Team (50) Final Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
<ul style="list-style-type: none"> • Ability of team to explain individual effort in the team design process. 	1-12	13-24	25-37	38-50	
<ul style="list-style-type: none"> • Ability of team to explain the use of innovative technology and development of media elements. 	1-4	5-9	10-14	15-20	
<ul style="list-style-type: none"> • Ability of team to explain the use and development of media elements 	1-7	8-15	16-23	24-30	
TOTAL INTERVIEW POINTS (100 points)					
PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per team, not per judge.					
<ul style="list-style-type: none"> • Adheres to Copyright and Fair Use Guidelines. 				15	
<ul style="list-style-type: none"> • Presentation lasted no more than ten minutes. 				10	
<ul style="list-style-type: none"> • Appropriate equipment and documentation for the interview. 				10	
TOTAL PRESENTATION SPECIFICATION POINTS (35 points)					

FINAL PRESENTATION TOTALS:

Judge 1 (100 points maximum) _____

Judge 2 (100 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(35 points maximum) _____

TOTAL (135 points maximum) _____

RANK _____

Computer Animation Team (50) Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

COMMENTS: (to be viewed by contestant)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of the contestant's competition.)

REASON FOR DISQUALIFICATION: (if applicable)

Network Design Team (51)

Description

The team will analyze existing and planned business environments and develop a strategy for the implementation of a network infrastructure that addresses the need(s) of the defined business environment based on the scenario provided. At State and National level, teams will be presented with an additional element to the scenario that requires revision of their final presentation.

Eligibility

Any student may enter this event. A team will consist of 2-4 members.

<p>Team must supply Laptop/notebook computer (<u>each team member may have one laptop</u>), portable printer, software, and paper for this event Team must bring all supporting devices (e.g., extension cords, power supply, etc.) Published and/or unpublished written reference materials</p> <p>Optional Projector / Props</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area.</p> <p>No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Apply technical skills in the network design
- Evaluate and delegate responsibilities needed to perform required tasks
- Utilize problem solving techniques
- Demonstrate teamwork skills needed to function in a business setting
- Analyze existing and planned network and systems management
- Demonstrate knowledge of network cable topologies
- Diagram the completed network
- Incorporate redundancy into the network
- Design a remote access solution
- Analyze network infrastructure, protocols, and hosts
- Estimate upgrade cost based on existing environment
- Incorporate future expansion into the network
- Demonstrate an ability to meet software requirements
- Demonstrate a knowledge of VPNs
- Identify the company's tolerance for risk
- Analyze technical support structure
- Analyze end-user work needs
- Plan for placement and management of resources
- Plan for decentralized resources or centralized resources
- Design a routing strategy
- Develop multiple recommendations to scenarios
- Produce business reports

Topic

You have been asked to modernize 2 LANs and introduce a WAN connection for Regal Food Distributors. Regal has 2 locations presently in Dallas, Texas and in Kansas City, Kansas. They are considering opening an office in the future on the west coast. They have all the cable drops that they need in both locations and they want both offices connected full time using a WAN solution. Both locations have 50 sales people each that work primarily as telecommuters. They have 10 administrative assistants at both locations for support and booking appointments for the sales people. There are 10 total upper managers, 7 are in Dallas and 3 are in Kansas City. In Dallas they have 5 tech support people, 10 employees for payroll and budget functions, and 1 receptionist. Your solution must minimally address the following requirements:

1. Proposal of new WAN connectivity solution
2. IP addressing scheme for both internal communications and WAN interconnectivity
3. Propose a connectivity solution for telecommuters enabling them to connect from home and/or on the road.
4. Implement dynamic IP address assignment and DNS for the enterprise
5. Provide an enterprise Anti-virus solution for both locations
6. Recommend a software solution for administrative assistants and sales people to use for the purpose of tracking appointments and contacts (Remember there are administrative assistants both in Dallas and in Kansas City)
7. Recommend a solution to ensure security of the entire network.
8. Propose internet connectivity solutions including protection from potential threats. Include bandwidth specifications

You need to offer Regal Food Distributors several variations to your solution in order to determine the solution with the best fit for Regal. The solution(s) must be scalable in order to accommodate growth and change in the future. Be ready to explain your reasoning for your recommendations and show supporting documentation.

School names should not be visible on any equipment, screen savers, etc., utilized during presentations in front of judges.

Equipment/supplies provided:

- Projection surface at national competition only

Method of evaluation:

- Application (judges' rating sheet)

Length of event:

- No more than five (5) minutes orientation
- No more than 30 minutes preparation time
- No more than five (5) minutes set-up in presentation room
- No more than ten (10) minutes presentation time
- No more than ten (10) minutes judges' questions
- Finals may be required at State and National levels

Entries:

- Each state is allowed two (2) entries.

Please note:

Those students who wish to receive judges' comments must submit a self-addressed, stamped envelope to the administrator at the time of competition.

Network Design Team (51) Preliminary Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
(Oral) Presentation:					
• Voice quality and diction	1-7	8-15	16-22	23-30	
• Self-confidence, assertiveness and eye contact	1-7	8-15	16-22	23-30	
• Usage of technical terminology with appropriate explanation	1-7	8-15	16-22	23-30	
• Flow of content	1-7	8-15	16-22	23-30	
• Organization of information	1-7	8-15	16-22	23-30	
• Response to judges' questions	1-11	12-22	23-33	34-45	
Written Proposal for Implementation of Network Infrastructure:					
• Title page and table of contents	1-7	8-15	16-22	23-30	
• Customer profile	1-7	8-15	16-22	23-30	
• Objectives	1-7	8-15	16-22	23-30	
• Abstract of implementation	1-7	8-15	16-22	23-30	
• Product(s) and/or service(s) provided	1-7	8-15	16-22	23-30	
• Short/long range goals	1-7	8-15	16-22	23-30	
• Financial analysis	1-7	8-15	16-22	23-30	
• Supporting documentation	1-7	8-15	16-22	23-30	
• Conciseness, completeness of plan	1-7	8-15	16-22	23-30	
TOTAL POINTS					

SPECIFICATION POINTS: All points or none awarded by the proctor per team, not per judge.

• Equipment set-up lasted no more than five (5) minutes	5	
• Presentation lasted no more than ten (10) minutes	10	
• All registered team members present for the entire event	20	

SUMMARY TOTALS:

Judge 1 (465 points maximum) _____

Judge 2 (465 points maximum) _____

SUBTOTAL: _____

JUDGES' TOTAL

(Subtotal divided by # of judges):

SPECIFICATION POINTS

(35 points maximum): _____

FINAL TOTAL

(500 points maximum): _____

RANK _____

Network Design Team (51) Final Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
(Oral) Presentation:					
• Voice quality and diction	1-7	8-15	16-22	23-30	
• Self-confidence, assertiveness and eye contact	1-7	8-15	16-22	23-30	
• Usage of technical terminology with appropriate explanation	1-7	8-15	16-22	23-30	
• Flow of content	1-7	8-15	16-22	23-30	
• Organization of information	1-7	8-15	16-22	23-30	
• Response to judges' questions	1-11	12-22	23-33	34-45	
Written Proposal for Implementation of Network Infrastructure:					
• Title page and table of contents	1-7	8-15	16-22	23-30	
• Customer profile	1-7	8-15	16-22	23-30	
• Objectives	1-7	8-15	16-22	23-30	
• Abstract of implementation	1-7	8-15	16-22	23-30	
• Product(s) and/or service(s) provided	1-7	8-15	16-22	23-30	
• Short/long range goals	1-7	8-15	16-22	23-30	
• Financial analysis	1-7	8-15	16-22	23-30	
• Supporting documentation	1-7	8-15	16-22	23-30	
• Conciseness, completeness of plan	1-7	8-15	16-22	23-30	
TOTAL POINTS					

SPECIFICATION POINTS: All points or none awarded by the proctor per team, not per judge.

• Equipment set-up lasted no more than five (5) minutes	5	
• Presentation lasted no more than ten (10) minutes	10	
• All registered team members present for the entire event	20	

SUMMARY TOTALS:

Judge 1 (465 points maximum) _____

Judge 2 (465 points maximum) _____

SUBTOTAL: _____

JUDGES' TOTAL

(Subtotal divided by # of judges): _____

SPECIFICATION POINTS

(35 points maximum): _____

FINAL TOTAL

(500 points maximum) : _____

RANK

Network Design Team (51) Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

COMMENTS: (to be viewed by team)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of the team's competition.)

REASON FOR DISQUALIFICATION: (if applicable)

Software Engineering Team (52)

Description

The team will work together as a software engineering team to develop a system of applications that will share data and functions and/or procedures from the topic given. At State and National level, teams will be presented with an additional element to the scenario that requires revision of their final presentation.

Eligibility

A team will consist of 2-4 members. Students participating in National Level Competition must be registered for the event prior to submission deadline for technical judging.

<p>Team must supply Laptop computer(s), printer and projector Team must bring all supporting devices (e.g., extension cords, power supply, etc.) Published and/or unpublished written reference materials</p> <p>Optional: Props</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant.</p> <p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area.</p> <p>No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Apply technical skills in the given programming languages to develop the system of programs required
- Evaluate and delegate responsibilities needed to perform required tasks
- Demonstrate teamwork skills needed to function in a business setting
- Apply problem solving techniques
- Use structured programming techniques
- Implement system analysis and design concepts
- Use internal programming documentation
- Use object-oriented programming concepts and techniques
- Produce business reports
- Apply programming concepts such as sequential file access, databases, and I/O operations
- Use internal and external function and/or procedure calls
- Establish parameters to pass to and return values from function calls

Specifications:

- Two (2) copies of the Software Engineering Team Documentation Form, two (2) copies of the source code, and two (2) copies of an executable file of their system and the data on CD-ROM in one envelope must be submitted to the National Center, 5454 Cleveland Avenue, Columbus, OH 43231-4021, postmarked on or before April 1, 2010. **No faxed or e-mail copies will be accepted.**
- Provide passwords for any components of the software which may be protected. Provide the passwords in a README.txt file.
- **Students are encouraged to use certified mail or another traceable method of delivery. Confirmation of receipt cannot be provided by the National Center. No faxed or e-mail copies will be accepted.**

- **Contestants must be registered for National-level competition prior to submission of materials. The chapter number must be included as indicated. Materials from non-registered contestants and/or those missing chapter number cannot be accepted.**
- No changes can be made to the project after the date of submission.
- **At the time of the interview, the team must submit two (2) additional copies of the Software Engineering Team Documentation Form, two (2) copies of source code, and two copies of all Release Forms.**
- School names should not be visible on any equipment, screen savers, etc., utilized during presentations in front of judges.
- The team is responsible for securing a release form from any individual whose name, photograph, and/or other information is included in this event.
- It is the policy of Business Professionals of America to comply with state and federal copyright laws, which are available on the Web at www.copyright.gov/title17/circ92.pdf. Use the Copyright and Fair Use Guidelines in the *Style & Reference Manual*. **Contestant(s) will be DISQUALIFIED for violations of the Copyright and Fair Use Guidelines.**
- Team members will specifically identify their roles in the development of this system and be prepared to address questions pertaining to those roles.

Topic:

You are given the task to design circulation software for a local public library. Teams should research the functionality of local area public libraries and incorporate as much of that functionality into their system. Teams are encouraged to take the system as far as their skill sets will allow. The minimum functionality required is:

- Database
 - Relational database containing all tables necessary to support the system.
 - The database must be a “backend” data store and must not act as the front end and backend. If using Access, do not create the user interface in Access
 - Include a patron data table in the database
 - Include accounting for multiple copies of the same book
- Routines
 - Maintenance routine for each table in the database to add, update, delete, and print table
 - Report to print all books past due
 - Book and media check-out routine (take out book)
 - Authenticate patron upon check-out
 - Record check-out transaction in the appropriate table
 - Issue a check-out receipt when a book or media is checked out by a patron
 - Book and media check-in routine (return book)
 - Record check-in transaction in the appropriate table
 - Calculate a fine on an overdue book or media
 - Keep a running total on outstanding fines
 - Search routine for a book or media in library inventory
- Test Data
 - Extensive test data should be developed in all tables
 - You can use real ISBN numbers and titles for books and media
- Documentation
 - Documentation for your database
 - Documentation for system design
 - Documentation for the code

Method of evaluation:

- Application (judges' rating sheets)
- At Regional level, teams submit their projects for technical scoring. Teams also provide a presentation of their project based on the original information provided in the WSAP. No modification will be offered at Regional level.
- At State and National level preliminary competition, teams submit their projects for technical scoring. Teams also receive a modification that must be incorporated into the existing project. Scores from reports created using from this modification will be added to each teams' technical score to advance teams to finals as appropriate.
- At State and National level final competition, teams will provide a presentation of their project, including the modification from preliminary competition.

Length of event:*Regional:*

- No more than five (5) minutes set-up in presentation room
- No more than ten (10) minutes presentation time
- No more than ten (10) minutes judges' questions

State and National Preliminary:

- No more than five (5) minutes orientation
- No more than 30 minutes preparation time

State and National Final:

- No more than five (5) minutes set-up in presentation room
- No more than ten (10) minutes presentation time
- No more than ten (10) minutes judges' questions
- Finals may be required at National level

Entries:

- Each state is allowed two (2) entries.

It is the local chapter advisor's responsibility to pick up all previously submitted contestant materials. A time and place for material pick up will be published in the program. Any materials not picked up will be destroyed on site.

Software Engineering Team (52)

Documentation Form

Key the information below and check the address and password for accuracy. NO HANDWRITTEN FORMS WILL BE ACCEPTED.

Chapter Name: _____

Team Members: _____

URL (if applicable) _____

Password (if applicable) _____

We, the undersigned, attest that the design, creation, and implementation of this software system is the original work of the team members. Furthermore, we attest that the system site is in accordance with Copyright and Fair Use Guidelines.

We consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America.

Team Signatures:

Team Member Roles:

1. _____

2. _____

3. _____

4. _____

Advisor Signature:

We, the undersigned, attest that no changes will be made to our system after the postmarked date.

Team Signatures:

Advisor signature and contact information during technical judging:

1. _____

2. _____

3. _____

E-mail: _____

4. _____

Phone: _____

Business Professionals of America Software Engineering Team (52)

Software Engineering Release Form

I hereby consent irrevocably to the use and reproduction of any and all photographs taken of me in any form whatsoever for the Business Professionals of America Software Engineering Team competition. Consent is also granted for any printed matter used in conjunction with the photograph(s) and with the use of my name in any part of this event.

I have read this document and am fully aware of the content and implications, legal and otherwise.

Please print the following:

Student Name

Address

City, State, ZIP

Signature(s):

Student Signature

Date _____ / _____ / _____
(Month) (Day) (Year)

Signature of Parent or Guardian
(If student is under 18 years of age)

Date _____ / _____ / _____
(Month) (Day) (Year)

Software Engineering Team (52) Technical Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate for Technical Judging	Below Average	Average	Good	Excellent	Points Earned
Structured, Object-Oriented Design (60 points) <ul style="list-style-type: none"> • Minimize code duplication, reuse code • Proper use of encapsulation • Use of inheritance 	1-5	6-10	11-15	16-20	
Design Analysis (125 points) <ul style="list-style-type: none"> • Interface design • Database diagram • Data flow diagrams • Team has selected and adhered to a Software Development Methodology • Other diagram(s) team deems necessary 	1-6	7-12	13-19	20-25	
Proper Documentation and Comments (55 points) <ul style="list-style-type: none"> • Comments explaining each method, class and difficult to understand code snippets • Help routine that explains the functionality of the system, instructions etc. 	1-5	6-10	11-15	16-20	
Database Access (40 points) <ul style="list-style-type: none"> • One data connection class that contains the connection string • System can located data source if system is deployed on another station and/or in other folders 	1-5	6-10	11-15	16-20	
Error Checking (40 points) <ul style="list-style-type: none"> • Field validation • Error/exceptions are handled in an appropriate manner 	1-5	6-10	11-15	16-20	

Software Engineering Team (52) Technical Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate for System Execution	Below Average	Average	Good	Excellent	Points Earned
Database (120 points) <ul style="list-style-type: none"> • Relational database drives the system • The database is used strictly as a backend • A patron data table is included in the database • Includes accounting for multiple copies of the same book 	1-12 1-5 1-7 1-5	13-24 6-10 8-15 6-10	25-37 11-15 16-23 11-15	38-50 16-20 24-30 16-20	
Routines (380 points) System includes Maintenance Routines for each table in the database to add, update, delete, print table, etc. <ul style="list-style-type: none"> • Add routines work, easy to use, good design • Edit routines work, easy to use, good design • Delete routines work, easy to use, good design • Report prints, easy to read, heading, date, column headings Report <ul style="list-style-type: none"> • Report to print past due books, easy to read, heading, date, column headings Book and Media <ul style="list-style-type: none"> • Check-out routine is well-designed, complete and easy to use • System authenticates patron upon check-out • System records check-out transaction in appropriate table • Check-in routine is well-designed, complete and easy to use • System records check-in transaction • Calculates a fine on an overdue book or media • System keeps a running total on outstanding fines for a given patron • Search routine for a book or media in library inventory is well-designed and easy to use 	1-12 1-12 1-5 1-7 1-7 1-10 1-2 1-7 1-10 1-5 1-5 1-5 1-5	13-24 13-24 6-10 8-15 8-15 11-20 3-5 8-15 11-20 6-10 6-10 6-10 6-10	25-37 25-37 11-15 16-23 16-23 21-30 6-7 16-23 21-30 11-15 11-15 11-15 11-15	38-50 38-50 16-20 24-30 24-30 31-40 8-10 24-30 31-40 16-20 16-20 16-20 16-20	
Database Access (30 points) <ul style="list-style-type: none"> • Test has developed adequate test data in all tables 	1-7	8-15	16-23	24-30	
TOTAL TECHNICAL POINTS (850 points)					

Software Engineering Team (52)

Regional Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
• Ability to explain the development and design process	1-7	8-15	16-23	24-30	
• Ability to explain use and development of innovative technology	1-7	8-15	16-23	24-30	
• Ability to explain use and development of media elements (graphics, video, audio, etc.)	1-7	8-15	16-23	24-30	
• Evidence showing the team's role in the development of the site and responses to interview questions	1-9	10-19	20-29	30-40	
TOTAL INTERVIEW POINTS (130 points)					
PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per individual, not per judge.					
• Equipment set-up lasted no more than five (5) minutes.				5	
• Presentation lasted no more than ten (10) minutes.				5	
• Appropriate equipment and documentation for the interview.				10	
TOTAL PRESENTATION SPECIFICATION POINTS (20 points)					

PRESENTATION TOTALS:

Judge 1 (130 points maximum) _____

Judge 2 (130 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(20 points maximum) _____

TECHNICAL SCORE
(850 points maximum) _____

TOTAL (1000 points maximum) _____

RANK _____

Software Engineering Team (52) State and National Final Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
• Ability to explain the development and design process	1-7	8-15	16-23	24-30	
• Ability to explain use and development of innovative technology	1-7	8-15	16-23	24-30	
• Ability to explain use and development of media elements (graphics, video, audio, etc.)	1-7	8-15	16-23	24-30	
• Evidence showing the team's role in the development of the site and responses to interview questions	1-9	10-19	20-29	30-40	
TOTAL INTERVIEW POINTS (130 points)					
PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per individual, not per judge.					
• Equipment set-up lasted no more than five (5) minutes.				5	
• Presentation lasted no more than ten (10) minutes.				5	
• Appropriate equipment and documentation for the interview.				10	
TOTAL PRESENTATION SPECIFICATION POINTS (20 points)					

PRESENTATION TOTALS:

Judge 1 (130 points maximum) _____

Judge 2 (130 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(20 points maximum) _____

TOTAL (150 points maximum) _____

RANK _____

Software Engineering Team (52) Judges' Comment Sheet

Judge Number _____

Team Number _____

COMMENTS: (to be viewed by team)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of the team's competition.)

REASON FOR DISQUALIFICATION: (if applicable)

Video Production Team (53)

Description

Create a three to five (3-5) minute video production based upon the assigned topic below.

Eligibility

Any student may enter this team event. A team will consist of 2-4 members.

<p>Team must supply Visual display technology in the form of (but not limited to) a desktop/laptop with internal or external speakers, projector, TV or DVD player Video projector (optional) Props (optional) Electrical power will be provided. Carry-in and setup of equipment must be done solely by the team and must take place within the time allotted for orientation/warm-up. Team must bring all supporting devices (e.g., extension cords, power supply, etc).</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the team. No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Apply knowledge of software, equipment, and skills related to video production.
- Utilize various video-editing applications.
- Develop a story line using a storyboard and outline.
- Demonstrate scripting techniques to present a clear overall message.
- Apply basic camera techniques including various camera shots.
- Demonstrate knowledge of lighting techniques.
- Perform non-linear editing techniques utilizing various editing tools.
- Demonstrate knowledge of transitions and audio editing techniques.
- Demonstrate proper using in placement of titles and visual effects.
- Demonstrate teamwork skills needed to function in a video editing environment.

Specifications:

- The team will develop a visual communication tool utilizing various software applications related to video production.
- A copy of the CD or DVD bearing the production, Video Production Documentation Form and Release Form(s) must be presented at the time of the presentation at the NLC at both Preliminary and Final Competition. The production must be in an executable file format on a CD-ROM or DVD. For CD-ROM only, a README file must be included which states the program and platform used.
- The student may utilize audio, text, video, graphics, and animation.
- Use of transitions and continuity must exist in the production.
- The team is responsible for securing a release form from any person whose image is used in the production.
- School names should not be visible on any equipment, screen savers, etc., utilized during presentations in front of judges.
- All text/graphics materials must follow the organization's Graphic Standards and make proper use of the logo and/or organization's name. (Refer to the Graphic Standards in the *Style & Reference Manual*.) National Business Professionals of America grants permission for the use of the logo and/or organization's name.

- It is the policy of Business Professionals of America to comply with the Copyright Law of the United States of America, Title 17, Circular 92. Refer to the Copyright and Fair Use Guidelines in the *Style & Reference Manual*. **Contestant(s) will be DISQUALIFIED for violations of the Copyright and Fair Use Guidelines.**

Topic

Create a (3-5) minute video production over a local hero. Examples include:

- Someone who lived through a major world event, such as 9-11, World War, Depression, etc.
- Someone who has shown outstanding service in the military.
- Someone who goes “above and beyond” in their community.

Teams who do not submit an entry that follows this topic will be disqualified.

Method of evaluation:

- Application (judges’ rating sheet)

Length of event:

- No more than five (5) minutes for set-up
- No more than ten (10) minutes for the presentation
- No more than five (5) minutes for judges’ questions
- Finals may be included at State and National levels.

Entries:

- Each state is allowed two (2) entries.

Video Production Team (53) Documentation Form

Please key all information requested below. **Handwritten and incomplete forms will not be accepted.**

Chapter Name: _____ Chapter Number: _____

Chapter Members: _____

We, the undersigned, attest that the design, creation, and implementation of this Video Production is the original work of our team. Furthermore, we attest that the production is in accordance with Copyright and Fair Use Guidelines.

We consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America National Center.

COMPUTER SOFTWARE USED FOR PRODUCTION:

Team Members Signatures:

Advisor Signature:

**Business Professionals of America
Video Production Team (53)**

Video Production Release Form

I hereby consent irrevocably to the use and reproduction of any and all photographs taken of me in any form whatsoever for the Business Professionals of America Video Production competition.

I have read this document and am fully aware of the content and implications, legal and otherwise.

Please print the following:

Name

Address

City, State, ZIP

Signature(s):

Signature

Date _____ / _____ / _____
(Month) (Day) (Year)

**Signature of Parent or Guardian
(If person is under 18 years of age)**

Date _____ / _____ / _____
(Month) (Day) (Year)

Video Production Team (53) Preliminary Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Required Elements <ul style="list-style-type: none"> • Included more than one camera shot • Included at least one interview • Included one voice over • Included Ending Credits 	1-20	21-40	41-60	61-80	
Content <ul style="list-style-type: none"> • Originality of content • Developed and portrayed theme • Effectiveness of production • Developed storyboard • Developed script • Production free of typos 	1-20	21-40	41-60	61-80	
Quality <ul style="list-style-type: none"> • Focus • Steadiness • Color • Audio 	1-20	21-40	41-60	61-80	
<ul style="list-style-type: none"> • Ability to explain the development and design process, including storyboard and outline • Ability to explain the use and the development of innovative technology • Ability to explain the use and development of media elements (graphics, video, audio, etc.) 	1-20	21-40	41-60	61-80	
PRELIMINARY PRESENTATION (320 points)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per individual, not per judge.		
<ul style="list-style-type: none"> • Storyboard, script, documentation, release form and DVD submitted at presentation 	10	
<ul style="list-style-type: none"> • Presentation (including video) lasted no more than ten (10) minutes. 	10	
<ul style="list-style-type: none"> • All registered team members present for the entire event (awarded if same members are present for all portions of the test) 	20	
PRELIMINARY SPECIFICATION POINTS (40 points)		

PRELIMINARY PRESENTATION TOTALS:

Judge 1 (320 points maximum) _____

Judge 2 (320 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRELIMINARY SPECIFICATION
POINTS**
(40 points maximum) _____

TOTAL (360 points maximum) _____

RANK _____

Video Production Team (53) Final Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Required Elements <ul style="list-style-type: none"> • Included more than one camera shot • Included at least one interview • Included one voice over • Included Ending Credits 	1-20	21-40	41-60	61-80	
Content <ul style="list-style-type: none"> • Originality of content • Developed and portrayed theme • Effectiveness of production • Developed storyboard • Developed script • Production free of typos 	1-20	21-40	41-60	61-80	
Quality <ul style="list-style-type: none"> • Focus • Steadiness • Color • Audio 	1-20	21-40	41-60	61-80	
<ul style="list-style-type: none"> • Ability to explain the development and design process, including storyboard and outline • Ability to explain the use and the development of innovative technology • Ability to explain the use and development of media elements (graphics, video, audio, etc.) 	1-20	21-40	41-60	61-80	
FINAL PRESENTATION (320 points)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per individual, not per judge.		
<ul style="list-style-type: none"> • Storyboard, script, documentation, release form and DVD submitted at presentation 	10	
<ul style="list-style-type: none"> • Presentation (including video) lasted no more than ten (10) minutes. 	10	
<ul style="list-style-type: none"> • All registered team members present for the entire event (awarded if same members are present for all portions of the test) 	20	
FINAL SPECIFICATION POINTS (40 points)		

FINAL PRESENTATION TOTALS:

Judge 1 (320 points maximum) _____

Judge 2 (320 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRELIMINARY SPECIFICATION
POINTS**
(40 points maximum) _____

TOTAL (360 points maximum) _____

RANK _____

Video Production Team (53) Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

COMMENTS: (to be viewed by team)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of the team's competition.)

REASON FOR DISQUALIFICATION: (if applicable)

Web Application Team (54)

Description

The team will create a database-driven Web site with server-side functionality. The team is provided with the opportunity to design, build and present a working web application.

Eligibility

Any student may enter this event. A team will consist of 2-4 members. Students participating in National Level Competition must be registered for the event prior to submission deadline for technical judging.

<p>Team must supply</p> <p>One (1) desktop/laptop computer/server: This computer will function as a server and should meet the minimum system requirements associated with the software that each team chooses. A monitor, keyboard, mouse, and cables should accompany the server to the presentation site.</p> <p>One (1) desktop/laptop computer (optional): This computer may be networked directly to the server for the purposes of demonstrating the application. A monitor, keyboard, mouse, and cables should accompany the desktop/laptop to the presentation site.</p> <p>The web server and database server software that powers the web application may be loaded on the same machine utilized to demonstrate the application. This enables the team to demonstrate their application using only one computer, reducing the amount of setup time needed and simplifies transportation of equipment. However, some Microsoft® server products cannot launch without an active network connection with which to bind.</p> <p>The team must bring all supporting devices (e.g., extension cords, power supply, etc.).</p> <p>Optional Projector / Props</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant.</p> <p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area.</p> <p>No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies:

- Demonstrate database development and structured query language (SQL) skills
- Demonstrate application security features
- Demonstrate knowledge of server side scripting and Internet concepts
- Evaluate and delegate responsibilities needed to perform required tasks
- Demonstrate teamwork skills needed to function in a business setting
- Apply database development skills in order to create the back-end of the web application
- Apply web design skills and standards in order to complete the front-end of the web site
- Implement problem-solving techniques
- Describe the process, methodology, and life cycle of a web application

Specifications:

- The Web Application Team Submission Form (as a pdf file) and the source code (as a pdf file) must be submitted to the National Center by e-mail at **webapp@bpa.org** no later than 11:59 pm Eastern Time on April 1, 2010. The subject line of the message should be "Web Application Team - *chapter number*." The use of e-mail delivery receipt is encouraged, as **confirmation of receipt cannot be provided by the National Center. No fax or mailed copies will be accepted. No exceptions can be made for missed deadlines due to misspelled e-mail address.**
- **Contestants must be registered for National-level competition prior to submission of materials. The chapter number must be included as indicated. Materials from non-registered contestants and/or those missing chapter number cannot be accepted.**
- No changes can be made to the project after the date of submission.
- **A copy of the Web Application Documentation Form and Release Form(s) must presented be at the time of the presentation at the NLC at both Preliminary and Final Competition.**
- The web site must be available for viewing on the Internet on April 1, 2010. If the ISP is experiencing technical difficulty, the advisor will be contacted and a reasonable amount of time will be provided to solve the problem. No changes can be made to the web site after this date. Technical judging of the web site will be conducted prior to the NLC. The team will administer and present their application at the NLC.
- The following information must be included in the web site: chapter name and number, team member names, school, city, state, and year. This information can be included in any format and location.
- The team members must create the conceptual model for the database identifying relationships between tables in the database. Each team will be expected to articulate the design of the database associated with the web application.
- Produce forms and associated considerations needed for the scenario.
- Teams may select the database, web server, and middleware solution they prefer. A careful review of the evaluative criteria presented in the competition guidelines will aid in the selection of development technologies. The source code that powers each team's web application will be scrutinized; therefore, it is imperative that team members are capable of answering questions regarding this aspect of the application.
- Pre-designed templates, packages and frameworks may not be used in any capacity.
- Code must be the original work of the team.
- It is the policy of Business Professionals of America to comply with the Copyright Law of the United States of America, Title 17, Circular 92. Refer to the Copyright and Fair Use Guidelines in the *Style & Reference Manual*. **Contestant(s) will be DISQUALIFIED for violations of the Copyright and Fair Use Guidelines.**

Topic

Create a social networking site. It may resemble popular social networking sites such as "YouTube", "Facebook", "MySpace", "Twitter", web-blogs, etc. However, the site should not be a duplicate (clone) of such sites and must be of your own design.

Contestants who submit an entry that does not follow this topic will be disqualified.

Method of evaluation:

- Application (judges' rating sheet)

Length of event:

- No more than five (5) minutes for team set-up
- No more than ten (10) minutes for presentation
- No more than five (5) minutes for judges' questions
- Finals may be included at State and National levels.

Entries:

- Each state is allowed two (2) entries.

Web Application Team (54) Submission Form

Key the information below and check the address for accuracy. NO HANDWRITTEN FORMS WILL BE ACCEPTED.

Chapter Name: _____ **Chapter Number:** _____

Team Members: _____

Complete web site/URL address: _____

Alternate web site/URL address (if applicable): _____

Password (if applicable): _____

Web Application Team (54) Documentation Form

Key the information below and check the address for accuracy. NO HANDWRITTEN FORMS WILL BE ACCEPTED.

Chapter Name: _____ **Chapter Number:** _____

Team Members: _____

Complete web site/URL address: _____

Alternate web site/URL address (if applicable): _____

Password (if applicable): _____

We, the undersigned, attest that the coding, design, creation, and implementation of this web site are the original work of the team members. Furthermore, we attest that the web site is in accordance with Copyright and Fair Use Guidelines.

We consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America.

We, the undersigned, attest that no changes will be made to our web site after the postmarked date.

Team Member Signatures:

Team Member Roles:

1. _____

2. _____

3. _____

4. _____

Advisor signature and contact information during technical judging:

Signature: _____

E-mail: _____

Phone: _____

**Business Professionals of America
Web Application Team (54)**

Web Application Team Release Form

I hereby consent irrevocably to the use and reproduction of any and all photographs taken of me in any form whatsoever for the Business Professionals of America Web Application Team competition. Consent is also granted for any printed matter used in conjunction with the photograph(s) and with the use of my name in any part of the Web Applications Team's web site.

I have read this document and am fully aware of the content and implications, legal and otherwise.

Please print the following:

Student Name

Address

City, State, ZIP

Signature(s):

Student Signature

Date _____ / _____ / _____
(Month) (Day) (Year)

**Signature of Parent or Guardian
(If student is under 18 years of age)**

Date _____ / _____ / _____
(Month) (Day) (Year)

Web Application Team (54) Technical Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Page Design (30 points) <ul style="list-style-type: none"> • Visual organization is easily understood • Aesthetic use of colors and fonts • Images and page file size have been optimized for performance 	1-3 1-3 1-3	4-5 4-5 4-5	6-7 6-7 6-7	8-10 8-10 8-10	
Customer Functionality (40 points) <ul style="list-style-type: none"> • Navigational links consistent and working • End-user instructed on the proper formatting for forms and given feedback upon submission • Cross-browser & cross platform compatibility • Ability to utilize a search feature 	1-3 1-3 1-3 1-3	4-5 4-5 4-5 4-5	6-7 6-7 6-7 6-7	8-10 8-10 8-10 8-10	
Database Development (40 points) <ul style="list-style-type: none"> • Conceptual model correctly implemented • Minimal data redundancy in tables • Sensitive data encrypted in the database • Database access is controlled through passwords, access control lists, etc. 	1-3 1-3 1-3 1-3	4-5 4-5 4-5 4-5	6-7 6-7 6-7 6-7	8-10 8-10 8-10 8-10	
Application Design (150 points) <ul style="list-style-type: none"> • Maintains state through sessions with and without cookies • Encrypts highly sensitive user information • Forms fields are validated before submission • Conditional logic is used to qualify SQL queries before executing them • Code is original and not a pre-built application or an open-source application 	1-7 1-7 1-7 1-7 1-7	8-15 8-15 8-15 8-15 8-15	16-22 16-22 16-22 16-22 16-22	23-25 23-25 23-25 23-25 23-25	
Administration (70 points) <ul style="list-style-type: none"> • Appropriate Web-based reports are generated for the application • Administrator has the ability to add, modify and delete data through a password protected Web interface 	1-9 1-9	10-18 10-18	19-27 19-27	28-35 28-35	
Grammar, Spelling, Punctuation, and Usage (25 points)	0 (3+ errors)	5 (2 errors)	15 (1 error)	25 (0 errors)	
TOTAL POINTS (330 maximum)					

Web Application Team (54)

Preliminary Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Ability to explain development/design process	1-9	10-18	19-27	28-35	
Ability to demonstrate how the application works by manipulating data utilizing the web application/interface	1-7	8-15	16-22	23-30	
Ability to explain their structure of the data in the database and the programmatic structures that manipulate the data	1-7	8-15	16-22	23-30	
Evidence showing each team member's role in the development of the site and their responses to interview questions	1-9	10-18	19-27	28-35	
TOTAL POINTS (130 maximum)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per team, not per judge.		
• Equipment set-up lasted no more than five (5) minutes	5	
• Presentation lasted no more than five (5) minutes	10	
• Appropriate equipment and documentation for the interview	5	
• All registered team members present for the entire event (awarded if same members are present for all portions of the test)	20	
TOTAL PRESENTATION SPECIFICATION POINTS (40 points)		

TECHNICAL SCORE TOTALS:

(330 points maximum) _____

PRELIMINARY PRESENTATION TOTALS:

Judge 1 (130 points maximum) _____

Judge 2 (130 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(40 points maximum) _____

TOTAL (500 points maximum) _____

RANK _____

Web Application Team (54)

Final Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Ability to explain development/design process	1-9	10-18	19-27	28-35	
Ability to demonstrate how the application works by manipulating data utilizing the web application/interface	1-7	8-15	16-22	23-30	
Ability to explain their structure of the data in the database and the programmatic structures that manipulate the data	1-7	8-15	16-22	23-30	
Evidence showing each team member's role in the development of the site and their responses to interview questions	1-9	10-18	19-27	28-35	
TOTAL POINTS (130 maximum)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per team, not per judge.		
• Equipment set-up lasted no more than five (5) minutes	5	
• Presentation lasted no more than five (5) minutes	10	
• Appropriate equipment and documentation for the interview	5	
• All registered team members present for the entire event (awarded if same members are present for all portions of the test)	20	
TOTAL PRESENTATION SPECIFICATION POINTS (40 points)		

FINAL PRESENTATION TOTALS:

Judge 1 (130 points maximum) _____

Judge 2 (130 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(40 points maximum) _____

TOTAL (170 points maximum) _____

RANK _____

Web Application Team (54) Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

COMMENTS: (to be viewed by team)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of the team's competition.)

REASON FOR DISQUALIFICATION: (if applicable)

Web Site Design Team (55)

Description

The team will work together to create a Web site based on the topic below.

Eligibility

Any student may enter this team event. A team will consist of 2-4 members. Students participating in National Level Competition must be registered for the event prior to submission deadline for technical judging.

<p>Team must supply Team may use one computer loaded with their Web site and/or hard copy printouts of the complete Web site (excluding external link pages) for presentation to the judges. The computer and/or printouts are optional and may be in color. No Internet access will be provided on site at the NLC Team must bring all supporting devices (e.g., extension cords, power supply, etc.) Published and/or unpublished written reference materials</p> <p>Optional Projector / Props</p>	<p>Business Professionals of America assumes no responsibility for hardware/software provided by the contestant.</p> <p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area.</p> <p>No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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Competencies*:

- Apply technical skills in Web site design
- Demonstrate knowledge of Internet concepts
- Evaluate and delegate responsibilities needed to perform required tasks
- Demonstrate teamwork skills needed to function in a business setting
- Demonstrate knowledge of site, content, graphics, layout, browser capabilities, and more
- Demonstrate awareness of requirements of target audience
- Demonstrate awareness of accessibility concerns
- Demonstrate knowledge of Page layout
- Demonstrate knowledge Navigational scheme
- Graphics/multimedia use
- Demonstrate skill sets in building site content
- Language use
- Demonstrate and apply web scripting skills
- Demonstrate leadership and teamwork skills
- Integrity and ethics
- Demonstrate the ability to conform to copy right laws
- Demonstrate problem solving skills

Specifications:

- A copy of the Web Site Design Documentation Form and Release Form(s) must presented be at the time of the presentation at the NLC at both Preliminary and Final Competition.
- Topic and theme must remain the same as the team progresses through regional, state and national competition.
- The Web Site Design Team Submission Form (as a pdf file) must be submitted to the National Center by e-mail at webdesign@bpa.org no later than 11:59 pm Eastern Time on April 1, 2010. The subject line of the message should be "Web Site Design Team - *chapter number*." The use of

e-mail delivery receipt is encouraged, as **confirmation of receipt cannot be provided by the National Center. No fax or mailed copies will be accepted. No exceptions can be made for missed deadlines due to misspelled e-mail address.**

- **Contestants must be registered for National-level competition prior to submission of materials. The chapter number must be included as indicated. Materials from non-registered contestants and/or those missing chapter number cannot be accepted.**
- No changes can be made to the project after the date of submission.
- **A copy of the Web Site Design Documentation Form and Release Form(s) must presented be at the time of the presentation at the NLC at both Preliminary and Final Competition.**
- The web site must be available for viewing on the Internet on April 1, 2010. If the ISP is experiencing technical difficulty, the advisor will be contacted and a reasonable amount of time will be provided to solve the problem. No changes can be made to the web site after this date. Technical judging of the web site will be conducted prior to the NLC. The team will administer and present their application at the NLC.
- The following information must be included on the site: name of chapter, team member names, theme, school, city, state, and year. This information can be included in any format and location.
- Attention must be given to cross browser capabilities.
- Attention must be given to monitor capabilities, such as resolution.
- All written material must follow the organization's Graphic Standards and make proper use of the logo and/or organization's name. (Refer to the Graphic Standards in the *Style & Reference Manual*.)
- The team is responsible for securing a release form from any individual whose name, photograph, and/or other information is included on the Web site.
- It is the policy of Business Professionals of America to comply with state and federal copyright laws, which are available on the Web at www.copyright.gov/title17/circ92.pdf. Use the Copyright and Fair Use Guidelines in the *Style & Reference Manual*. **Contestant(s) will be DISQUALIFIED for violations of the Copyright and Fair Use Guidelines.**
- Team members will specifically identify their roles in the development of the Web site and be prepared to address questions pertaining to those roles (i.e., page layout, navigational scheme, graphics, media, compatibility, and content).
- Code must be the original work of the team, not copied from another site.
- Pre-designed templates and packages and frameworks may not be used in any capacity .

Topic*:

2011 BPA NLC - A Monumental Event

The 2011 BPA NLC will be held in Washington D.C. Teams are to create a Web site about the historical monuments, memorials and unique points of interest (landmarks, museums, tourist attractions) around the capital city.

Ideas for possible content include:

- History of the individual monuments and points of interest
- Virtual tour of monuments, memorials and landmarks
- Tour possibilities while attending BPA NLC (walk, bike, bus, etc)
- Recognition of the oldest and newest monuments, memorials, museums and attractions
- Interactive map of monuments, memorials and points of interest to provide information about each location

The winning design will be incorporated on the 2011 BPA Official NLC Web site.

Contestants who do not submit an entry that follows the topic above will be disqualified.

Note: Previously submitted Web sites used in BPA competition may not be submitted.

Method of evaluation:

- Application (judges' rating sheet)

Length of event:

- No more than five (5) minutes set-up in presentation room
- No more than five (5) minutes oral presentation
- No more than five (5) minutes judges' questions
- Finals may be included at State and National levels.

Entries:

- Each state is allowed two (2) entries.

Please note:

Those students who wish to receive judges' comments must submit a self-addressed, stamped envelope to the administrator at the time of competition.

** Competencies and topic generously provided by the CIW (Certified Internet Web Professional) program.*

Web Site Design Team (55) Documentation Form

Please key all information requested below. **Handwritten and incomplete forms will not be accepted.** Check the address for accuracy.

Chapter Name: _____ Chapter Number: _____

Team Members: _____

Complete Web site/URL address: _____

Password (if applicable): _____

Alternate Web site/URL address
(if applicable): _____

Alternate Password (if
applicable): _____

Theme: _____

We, the undersigned, attest that the design, creation, and implementation of this Web site is the original work of the team members. Furthermore, we attest that the Web site is in accordance with Copyright and Fair Use Guidelines. We attest that we have used the same topic and theme as we progressed from regional through national competitions.

We consent to its reproduction, use, and/or modification in any way for use by Business Professionals of America.

Team Signatures:

Team Member Roles:

1. _____

2. _____

3. _____

4. _____

Advisor Signature:

**Business Professionals of America
Web Site Design Team (55)**

Web Site Release Form

I hereby consent irrevocably to the use and reproduction of any and all photographs taken of me in any form whatsoever for the Business Professionals of America Web Site Design Team competition. Consent is also granted for any printed matter used in conjunction with the photograph(s) and with the use of my name in any part of the Web site.

I have read this document and am fully aware of the content and implications, legal and otherwise.

Please print the following:

Student Name

Address

City, State, ZIP

Signature(s):

Student Signature

Date _____ / _____ / _____
(Month) (Day) (Year)

**Signature of Parent or Guardian
(If contestant is under 18 years of age)**

Date _____ / _____ / _____
(Month) (Day) (Year)

Web Site Design Team (55)

Technical Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Page Layout (75 points) <ul style="list-style-type: none"> • Visual organization is easily understood • Aesthetic use of colors and fonts • Consistent format page to page 	1-6 1-6 1-6	7-12 7-12 7-12	13-18 13-18 13-18	19-25 19-25 19-25	
Navigational Scheme (60 points) <ul style="list-style-type: none"> • Links present and working • Links show consistent formatting • Navigational path is clear and logical 	1-5 1-5 1-5	6-10 6-10 6-10	11-15 11-15 11-15	16-20 16-20 16-20	
Graphics/Media Use (100 points) <ul style="list-style-type: none"> • Enhances topic • Creativity through graphic design • Originality of graphics • Effective use of innovative technology 	1-5 1-5 1-7 1-7	6-10 6-10 8-15 8-15	11-15 11-15 16-22 16-22	16-20 16-20 23-30 23-30	
Content (75 points) <ul style="list-style-type: none"> • Well-developed • Portrays the topic • Effectiveness of site 	1-6 1-6 1-6	7-12 7-12 7-12	13-18 13-18 13-18	19-25 19-25 19-25	
Technical <ul style="list-style-type: none"> • Cross-Browser Compatibility • Markup is well organized and meets validation 	1-3 1-3	4-7 4-7	8-11 8-11	12-15 12-15	
Grammar, Spelling, Punctuation, and Usage (25 points)	0 (3+ errors)	3 (2 errors)	6 (1 error)	10 (0 errors)	
TOTAL POINTS (350 maximum)					

Web Site Design Team (55)

Preliminary Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Ability to explain development/design process	1-6	7-12	13-18	19-25	
Ability to explain their use and the development of innovative technology	1-5	6-10	11-15	16-20	
Ability to explain their use and development of media elements (graphics, video, audio, etc.)	1-6	7-12	13-18	19-25	
Evidence showing each team member's role in the development of the site and their responses to interview questions	1-9	10-19	20-29	30-40	
TOTAL POINTS (110 maximum)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per team, not per judge.		
• Equipment set-up lasted no more than five (5) minutes	5	
• Presentation lasted no more than five (5) minutes	10	
• Appropriate equipment and documentation for the interview	5	
• All registered team members present for the entire event (awarded if same members are present for all portions of the test)	20	
TOTAL PRESENTATION SPECIFICATION POINTS (40 points)		

TECHNICAL SCORE TOTALS:

(350 points maximum) _____

PRELIMINARY PRESENTATION TOTALS:

Judge 1 (110 points maximum) _____

Judge 2 (110 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(40 points maximum) _____

TOTAL (500 points maximum) _____

RANK _____

Web Site Design Team (55)

Final Presentation Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Contestant Number _____

Items to Evaluate	Below Average	Average	Good	Excellent	Points Earned
Ability to explain development/design process	1-6	7-12	13-18	19-25	
Ability to explain their use and the development of innovative technology	1-5	6-10	11-15	16-20	
Ability to explain their use and development of media elements (graphics, video, audio, etc.)	1-6	7-12	13-18	19-25	
Evidence showing each team member's role in the development of the site and their responses to interview questions	1-9	10-19	20-29	30-40	
TOTAL POINTS (110 maximum)					

PRESENTATION SPECIFICATION POINTS: All points or none are awarded by the proctor per team, not per judge.		
• Equipment set-up lasted no more than five (5) minutes	5	
• Presentation lasted no more than five (5) minutes	10	
• Appropriate equipment and documentation for the interview	5	
• All registered team members present for the entire event (awarded if same members are present for all portions of the test)	20	
TOTAL PRESENTATION SPECIFICATION POINTS (40 points)		

FINAL PRESENTATION TOTALS:

Judge 1 (110 points maximum) _____

Judge 2 (110 points maximum) _____

**PRESENTATION TOTALS
DIVIDED BY NUMBER OF JUDGES** _____

**PRESENTATION SPECIFICATION
POINTS**
(40 points maximum) _____

TOTAL (150 points maximum) _____

RANK _____

Web Site Design Team (55) Judges' Scoring Rubric/Rating Sheet

Judge Number _____

Team Number _____

COMMENTS: (to be viewed by team)

(Judges: please provide positive feedback and areas of improvement in a constructive manner regarding your analysis of the team's competition.)

REASON FOR DISQUALIFICATION: (if applicable)

Information Technology Concepts–Open Event (56)

Description

Demonstrate general knowledge of the information technology industry.

Eligibility

Any student may enter this event.

<p>Contestant must supply Sharpened no. 2 pencils, pens, ruler Cordless calculator: Electronic devices will be monitored according to ACT standards. See Web site www.act.org/aap/taking/calculator.html. <u>Contestants who violate this rule will be disqualified.</u></p>	<p>No equipment, supplies, or materials other than those specified for an event will be allowed in the testing area. No previous Business Professionals of America tests and/or sample tests or facsimiles thereof (handwritten, photocopied, or keyed) may be taken into the testing area. <u>Violation of this rule will result in disqualification.</u></p>
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The contestant may demonstrate knowledge and skills in the following:

- Demonstrate knowledge of information technology concept
- Demonstrate knowledge of programming language evolution
- Describe the history and evolution of computers
- Apply skills in programming language evolution
- Identify hardware and software basics
- Demonstrate understanding of graphics concepts
- Identify components and concepts related to printers
- Demonstrate understanding of operating systems
- Demonstrate understanding of security, law, and ethics
- Describe ergonomics and environmental concerns
- Demonstrate basic understanding of network concepts

Method of evaluation:

- Objective

Entries:

- Unlimited