

DESKTOP APPLICATION PROGRAMMING

Certain types of accounting processes require that each record in the file be processed. Desktop Application Programming focuses on these procedural style processing systems. This event tests the programmer's skill in designing a useful, efficient, and effective program in the area described below.

PROJECT COMPETENCIES

- development of topic is logical and creative
- code is commented at appropriate points
- interface is a logical arrangement and contains all necessary information
- program runs without error
- readme file is complete

PERFORMANCE COMPETENCIES

- critical thinking and problem solving
- oral presentation skills
- explanation of the program
- understanding of program language

NBEA STANDARDS REINFORCED BY EVENT

Information Technology: computer architecture; operating systems, environments, and utilities; systems analysis and design; communications and networking infrastructures; network applications
Management: technology and information management

CAREER CLUSTER(S): *Business, Management and Administration; Information Technology*

ELIGIBILITY

Each local chapter may enter one (1) participant in this event.

1. All participants must be members of the active local chapter on record in the FBLA state and national offices as paying dues by February 15.
2. Participants must be on record in the state and national offices as having paid dues by February 15.
3. Participants must be selected in accordance with the regulations of the local chapter and state association.
4. Participants failing to report on time for the event will not be permitted to compete.
5. Participants must adhere to the dress code established by the Board of Directors, or they WILL NOT be permitted to participate in the competitive event.

OVERVIEW

This event consists of two (2) parts: a prejudged program and a performance component. Participant(s) are required to complete both parts. The program must address the topic given. Performances should describe the program completed. Specifically, the performance should address the program creation, processes used, and results of the program.

2010 STATE BUSINESS LEADERSHIP CONFERENCE TOPIC

The 2010 program is:

Create an application that will present a menu to choose between calculating a mortgage or credit card balance reduction. These should be presented on the introductory screen that describes the two choices.

The mortgage calculator choice should allow any four of five amounts (initial amount, down payment, interest, time, payment), then present the fifth to the user.

The credit card reduction calculator should allow the Input of balance and Interest rate. Given this information, allow the Input of amount of time or monthly payment then present the missing value to the user.

In both cases, allow the user the option to print the Information or calculate another value.

This topic will also be used for competitions at the national level.

PROGRAM GUIDELINES

Prejudged Program

- Two (2) DVDs or USB flash drives containing the executable object, data or support files needed to run the executable file must be received in the state office for judging by March 5 along with a Statement of Assurance. Label the media using a marker with the school, participant name, state, and event.
- The participant may choose any programming language.
- Readme file must be submitted as a hard copy and sent with the DVDs or flash drives. Contained in the readme file is a statement noting the name of the participant, school and state; design software program(s) used and instructions on running the program and installing the executable and a runtime program if needed.
- Program must run on Windows XP or higher computer including Vista.
- Data must be free of viruses/malware. Any entry with contaminated data will not be judged.
- Program produced for this event must be prepared by the participant without help.
- The program will constitute 70 percent of the final score.

Performance

- Based on the highest prejudged project scores a maximum of fifteen (15) individuals will be selected to make an oral presentation at the SBLC.
- The participant must provide all equipment for the presentation including a copy of the program. Screen, table, and power will be provided.
- Five minutes (5) will be allowed to set up and remove equipment or presentation items.
- The individual will have seven (7) minutes to describe the case.
- A timekeeper will stand at six (6) minutes and again at seven (7) minutes. When the presentation is finished, the timekeeper will record the time used, noting a deduction of five (5) points for any time over seven (7) minutes.
- Following each presentation, judges will conduct a three (3) minute question-answer period.
- Visual aids and samples related to the project may be used; however, no items may be left with the judges.
- Performances are open to conference attendees who are not participants of this event.

JUDGING

Projects and performances will be evaluated by a panel of judges. All decisions by the judges are final.

STATE AWARDS

The number of awards presented at the State Business Leadership Conference is determined by judges and/or number of entries. The maximum number will be five (5).

NATIONAL ENTRIES

Washington State may enter two (2) state winners for national competition.



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Performance Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Explanation of Project					
Description of the problem	0	1–2	3–4	5	
Description of the planning process used to design the program	0	1–3	4–7	8–10	
Description of program documentation	0	1–3	4–7	8–10	
Description of input/output and program parameters	0	1–5	6–10	11–15	
Description of how the program flows	0	1–7	8–14	15–20	
Description of program structures	0	1–5	6–10	11–15	
Description of the usefulness of the program	0	1–2	3–4	5	
Delivery					
Thoughts and statements are well-organized and clearly stated; appropriate business language used	0	1–2	3–4	5	
Participant(s) demonstrate self-confidence, poise, and good voice projection	0	1–2	3–4	5	
Demonstrated the ability to effectively answer questions	0	1–3	4–7	8–10	
Subtotal					/150 max.
Time Penalty Deduct five (5) points for presentation over seven (7) minutes. Time:					
Dress Code Penalty Deduct five (5) points when dress code is not followed.					
Production Score					/150 max.
Final Score					/250 max.

Student Name(s):			
School:			
Judge's Signature:		Date:	

Judge's Comments:

VERIFICATION
(scores checked)
 Administrator



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Production Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Program Readability and Style					
Appropriate names of variables used	0	1-2	3-4	5	
Commentary provided line-by-line and/or section is readable, useful, and complete	0	1-5	6-10	11-15	
General program documentation readable, useful, and complete	0	1-7	8-14	15-20	
Input/output and program parameters properly documented	0	1-3	4-7	8-10	
Program Structure and Content					
Program is concise, does not contain unnecessary complexity	0	1-2	3-4	5	
Appropriate data types used	0	1-2	3-4	5	
Algorithms reliable and straightforward Unusual approaches should be well documented	0	1-5	6-10	11-15	
Algorithms did not impose any special limitations not described in the program instructions	0	1-3	4-7	8-10	
Results					
Program was error free	0	1-3	4-7	8-10	
The program handled user and/or data input errors well	0	1-5	6-10	11-15	
Program functioned as required and meets requirements	0	1-7	8-14	15-20	
Resulting outputs, screens, and messages were useful	0	1-7	8-14	15-20	
Subtotal					/150 max.
Penalty Points Deduct five (5) points for not adhering to Guidelines (maximum of fifteen [15] points). <input type="checkbox"/> 2 copies of media not received <input type="checkbox"/> Statement of Assurance not received <input type="checkbox"/> media labeled incorrectly <input type="checkbox"/> no readme file					
Total Points					/150 max.

Student Name(s):			
School:			
Judge's Signature:		Date:	

Judge's Comments:

VERIFICATION
(scores checked)
 Administrator