
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.

Competencies

The program must show the development of the topic is logical and creative. The event should assist FBLA members with ensuring that programs run without errors, readme files are complete, interface is logically arranged and contains all necessary information, and that the code is commented at appropriate points. Specifically, the performance should demonstrate critical thinking and problem solving, oral presentation skills, and show an understanding of program languages through an explanation of the program.

In the oral performance, participants should be able to give an explanation of the program is logical and systematic; demonstrate an understanding of the programming logic and coding; ensure that the design process is effectively communicated; identify the most difficult programming task(s) completed with an explanation of the scenario/logic used to overcome and implement these tasks; demonstrate self-confidence through the knowledge of content and articulation of facts; and effectively answer questions.

Career Cluster(s):

Business, Management, and Administration; Information Technology

Business Education Curriculum Standard(s):

Information Technology, Management

State Eligibility

Each local chapter may enter two (2) programs. Only one member may create the program. The local chapter must be on record in the Pennsylvania state and the FBLA-PBL national offices as having paid dues by January 31 of the current school year. **Members participating in this event may not compete in another competitive event at a Region Leadership Conference.**

This event consists of two (2) parts: a prejudged program and a performance component. **Participant(s) are required to complete both parts.** The top 10 rated reports from among those submitted will be required to give an oral presentation at the SLC.

At the State Leadership Conference, the chapter adviser must confirm students' participation in the event. Participants who are not confirmed will be disqualified.

State Regulations

Prejudged Program

1. The program must address the topic given, and can be created using any programming language.
2. Four (4) DVDs or USB flash drives containing the executable object, data, or support files needed to run the executable file must be received by the deadline at the www.pafbala.org/importantdates.php page. Students are reminded to double check all of the DVDs to make sure that each DVD runs; therefore, make sure that the DVD copied correctly. DVDs that do not run will not be evaluated.
3. The DVDs or flash drives should be labeled using a marker with the school name, participant name, state, and event.
4. A Statement of Assurance must be included.

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5. "Read-me" file information must be submitted on the "Statement of Assurance" along with copyright notations.
 6. Entries will be judged according to the rating sheet.
 7. The solution must run stand-alone with no programming errors. The judge will copy the contents of the DVD or flash drive to C:\PAFBLASLCDesktop\. The program must be designed so that the program will run when copied to a hard drive with this path. The judge will use a file with the same name and layout as given in the problem but with different data.
 8. Points will be deducted for any logical errors.
 9. Programs must be accompanied by a readme file noting software used; name(s) of participants, school name, and the state; source of information; and instructions on running the program. Readme files should be submitted as hard copies.
 10. Program should run on Windows XP or higher computer including Vista.
 11. DVDs and flash drives should be free of viruses/malware. Any entry with contaminated data will not be judged.
 12. The program must be prepared by the participant without help.
 13. The program will constitute 70 percent of the final score.

State Procedure

Preconference Requirements

1. The participant(s) must submit the following items:
 - a. An event entry form, which is posted on the PA FBLA web site, certified by the local chapter adviser.
 - b. Four (4) copies of the prejudged program.
2. **The materials must be received by the PA FBLA Executive Director/State Chairman by the deadline date published at www.pafbلا.org/importantdates.php, which is posted on the PA FBLA web site. Failure to submit these documents by the received by date will result in the participants being disqualified.**

Conference Requirements

Oral Presentation

1. Performances should describe the program completely. Specifically, the performance should address the program creation, processes used, and results of the program.
2. The top ten (10) individuals will be scheduled for a final presentation at the SLC.
3. Advisers may not participate during the actual delivery of the presentation, including assisting with setup, operation of audiovisual equipment, etc.
4. Five (5) minutes will be allowed to set up and remove equipment or presentation items.
5. Visual aids and samples related to the project may be used; however, no items may be left with the judges.
6. The individual will have seven (7) minutes to present the case describing the program.
7. The participant must provide all equipment for the presentation including a copy of the program. Projector screen, table, and power will be provided.

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8. A timekeeper will stand at the end of 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.
 9. Following each presentation, judges will conduct a three (3) minute question-answer period.
 10. Performances are open to conference members.
 11. The presentation will constitute 30 percent of the final score.
 12. The participants must comply with the PA FBLA Dress Code which can be found at www.pafbla.org/dresscode.php. If the participants do not comply, the participants will not be admitted to the performance area until he or she is in compliance.

State Judging

Reports will be screened to determine if chapters have complied with event eligibility and regulations. A panel of judges will then select the winners, and all decisions of the judges are final.

If there is a tie after the pre-judged program portion in order to determine the top 10 finalists advancing to the SLC, ties will be broken based on the following:

First Tiebreaker

- Total points of the *Results* section on the rating sheet.

Second Tiebreaker

- Total points of the *Program Readability and Style* section on the rating sheet.

Third Tiebreaker

- Total points of the “Program is concise, does not contain unnecessary complexity or repetitive blocks of code” category within the *Program Structure and Content* section on the rating sheet.

Tiebreaker implementation examples can be found in this handbook or at www.pafbla.org/tiebreakers.php.

If there is a tie after the pre-judged program portion and the oral presentation portion of the event, ties will be broken based on the following:

First Tiebreaker

- Total points of the *Pre-judged Program* rating sheet.

Second Tiebreaker

- Total points of the *Content* section on the rating sheet.

Third Tiebreaker

- Total points of the “Demonstrated the ability to effectively answer question” category within the *Delivery* section on the rating sheet.

Tiebreaker implementation examples can be found in this handbook or at www.pafbla.org/tiebreakers.php.

State Awards

The state will present a maximum of ten (10) awards at the State Leadership Conference.

National Conference Eligibility

The first- and second-place award winning projects at the State Leadership Conference are eligible for entry at the National Leadership Conference. All NLC qualifiers will be expected to present a seven-minute (7) oral presentation of the project at the NLC. Advisers and participants should refer to the latest edition of the [National Chapter Management Handbook](#) for official National Leadership Conference event guidelines.

In the event that the local chapter of the first- or second-place winning project cannot attend the National Leadership Conference or does not wish to have its project submitted for competition at the National Leadership Conference, it is the responsibility of the:

local chapter adviser

- to contact the PA FBLA Executive Director/State Chairman about not participating at the National Leadership Conference.

PA FBLA Executive Director/State Chairman

- to contact the next eligible award winner about participating at the National Leadership Conference.



DESKTOP APPLICATION PROGRAMMING

Production Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Program Readability and Style					
Appropriate identifiers used for variables, constants, arrays, objects, etc.	0	1-3	4-7	8-10	
Commentary provided line-by-line and/or section is readable useful and complete	0	1-7	8-14	15-20	
General program documentation is readable, useful, and complete (i.e., execution instructions, system requirements, etc.)	0	1-7	8-14	15-20	
Program Structure and Content					
Program is concise, does not contain unnecessary complexity or repetitive blocks of code (uses functions and sub routines as necessary)	0	1-7	8-14	15-20	
Appropriate data types are used for data storage to avoid drain on system resources	0	1-7	8-14	15-20	
Program follows a logical sequence to accomplish required tasks (unusual approaches are well documented)	0	1-3	4-7	8-10	
Results					
Program produces desired results (free of logic errors)	0	1-7	8-14	15-20	
Program handles user and/or data input errors well (coded to avoid run-time errors)	0	1-7	8-14	15-20	
Resulting output/feedback (onscreen and/or printed reports, alert/error messages, etc.) were useful	0	1-10	11-20	21-30	
Usability					
Program provides instructions or a help menu for user assistance	0	1-3	4-7	8-10	
User is able to navigate the program intuitively using a logical sequence (appropriate tab order for user input, asks for input in a logical sequence, etc.)	0	1-3	4-7	8-10	
Program interface, feedback, reports, etc. are free of spelling, punctuation, and grammatical errors	0	1-2	3-4	5	
Program aesthetics maintain user interest	0	1-2	3-4	5	
Subtotal					/200 max.
Penalty Points Deduct five (5) points for not adhering to Guidelines (maximum of fifteen [15] points).					
<input type="checkbox"/> 4 copies of media not received <input type="checkbox"/> Statement of Assurance not received <input type="checkbox"/> media labeled incorrectly					
Total Points					/200 max.

Name: _____

School: _____ Region: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

VERIFICATION & INITIALS
(scores checked for accuracy)

Co-Competitive Events Coordinator _____



DESKTOP APPLICATION PROGRAMMING

Performance Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Content					
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					/100 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.					
Penalty Deduct five (5) points for failure to follow directions					
Total Points					/100 max.
Production Score					/200 max.
Final Score					/300 max.

Name: _____

School: _____ Region: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

VERIFICATION & INITIALS
(scores checked for accuracy)

Chief Administrator _____

Official Checker _____