

(390) Computer Programming Concepts – Open Event (S | PS)

Description

Demonstrate general knowledge of the computer programming industry.

Eligibility

Any Secondary or Post-secondary division student member may enter this event.

Member must supply

Sharpened No. 2 pencils, pens

Cordless calculator: Electronic devices will be monitored according to ACT standards. See [NLC Calculator Guidelines](#). Members who violate this rule will be *disqualified*.

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. Violation of this rule will result in disqualification.

Competencies

- Demonstrate understanding of general programming concepts
- Demonstrate knowledge of computer languages
- Demonstrate knowledge of program logic (algorithms, structured design)
- Demonstrate knowledge of structural design techniques and object-oriented concepts
- Demonstrate knowledge of selection statements, logical operators, classes, sequential file access, I/O operations, data structures, and loops
- Demonstrate knowledge of the software development process
- Demonstrate knowledge of software design tools (UML, flowcharts, pseudo code)
- Demonstrate knowledge of structured query language
- Demonstrate knowledge of strings and arrays

Method of evaluation

Objective Test

Length of event

No more than sixty (60) minutes testing time

Entries

Unlimited

Reference materials may *not* be used for any Open Event