

(355) Python Programming (S | PS) – Pilot

Description

Evaluate knowledge of working with structured (procedural), object-oriented, and functional programming using the Python programming language.

This event includes a separate certification component which will be offered in conjunction with the BPA event at NLC; all members passing this component will receive an industry certification regardless of their overall event placement. The certification offered will be IT Specialist – Python and upon passing the exam, members will be awarded 100 points to their final score. All persons planning to take a certification test MUST register with Certiport (www.certiport.com) before attending NLC to create their Certiport profile. Members must include their BPA member ID in their Certiport profile when they register online. For more information on the exam, visit: <http://www.certiport.com>

Eligibility

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

Member must supply

Computer or laptop/notebook; a full-size keyboard may be used (no printer is needed)

Carry-in and set-up of equipment must be done solely by the member

Member must bring all supporting devices and software appropriate for the event (e.g., extension cords, power supply, IDE, paper, etc.)

Published and/or unpublished non-electronic written reference materials

Only pre-written code that is hard copied dis allowed.

Business Professionals of America assumes no responsibility for hardware/software provided by the member. 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 and Python computer language
- Use programming skills for proper development of a Python computer program
- Demonstrate knowledge of Python computer language
- Implement program logic (algorithms, structured design)
- Use structural design techniques and object-oriented concepts
- Create a Python program using calculations, totals, selection, logical operators, classes, sequential file access, I/O operations, loops, methods, arrays, and data structures (linked lists, structures, etc.)

Method of evaluation

Application

Certification test taken per conference schedule at NLC

Length of event

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

No more than one hundred twenty (120) minutes for certification test.

Entries

Each state is allowed five (5) entries