**Blue Waters Petascale Semester Curriculum v1.0**

**Unit 1: Computation Across the Curriculum**

**Lesson 3: Submitting Jobs and Running Programs**

**Sample Assessment**

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*Browse and search the full curriculum at*[*http://shodor.org/petascale/materials/semester-curriculum*](http://shodor.org/petascale/materials/semester-curriculum)

*We welcome your improvements! You can submit your proposed changes to this material and the rest of the curriculum in our GitHub repository at*[*https://github.com/shodor-education/petascale-semester-curriculum*](https://github.com/shodor-education/petascale-semester-curriculum)

*We want to hear from you! Please let us know your experiences using this material by sending email to* [*petascale@shodor.org*](mailto:petascale@shodor.org)

1. Describe the workflow required to execute a program in a super computer.
2. Give two examples of differences between a compute node and a login node.
3. Describe the workflow required to transfer source code to the super computer.
4. What is the purpose of the following tools:
   1. Scheduler
   2. Workload manager
   3. Application launcher
   4. Queue