Level 1 Developer Evaluation Profile

AREA 1 – RESEARCH	
Grade	Description
Q	Research current technology to understand capabilities of required system or network.
Q-	Performed area task with minor error(s) and/or deviation(s). Result (s) did not significantly impede area requirement.
U	Performed area task with major error(s) and/or deviation(s). Result (s) significantly impeded area requirement. Showed little/no ability in area task. Did not attempt area requirement.

- 1.1. Research current technology to understand capabilities of required system or network.
 - 1.1.1. Ability to filter search engine results using keywords (i.e., Google hacking)

AREA 2 – ALGORITHMS AND DATA STRUCTURES		
Grade	Description	
Q	Identify strategies for software development based on operations or other mission requirements.	
Q-	Performed area task with minor error(s) and/or deviation(s). Result (s) did not significantly impede area requirement.	
U	Performed area task with major error(s) and/or deviation(s). Result (s) significantly impeded area requirement. Showed little/no ability in area task. Did not attempt area requirement.	

- 2.1. Identify strategies for software development based on operations or other mission requirements.
 - 2.1.1. Identify appropriate algorithms for given problems
 - 2.1.2. Identify appropriate data structures for given problems
 - 2.1.3. Showed consideration for algorithmic complexity and tradeoff

AREA 3 – CAPABILITY DEVELOPMENT	
Grade	Description
Q	Skill in reading, interpreting, writing, modifying, and executing simple scripts (e.g., those that perform tasks like parsing large data files, automating manual tasks, and fetching/processing remote data). Skill in utilizing network analysis tools to identify software communications vulnerabilities. Ability to apply network programming using client/server model. Ability to write programs in C programming language. Ability to apply secure coding techniques. Ability to write programs in ASM programming language.
Q-	Performed area tasks with minor error(s) and/or deviation(s). Result (s) did not significantly impede area requirements.
U	Performed area tasks with major error(s) and/or deviation(s). Result (s) significantly impeded area requirements. Showed little/no ability in area tasks. Did not attempt area requirements.

- 3.1. Skill in reading, interpreting, writing, modifying, and executing simple scripts (e.g., those that perform tasks like parsing large data files, automating manual tasks, and fetching/processing remote data).
 - 3.1.1. Ability to create/use branching structures

- 3.1.2. Ability to create/use loops
- 3.1.3. Ability to appropriately decompose and solve stated problem
- 3.1.4. Ability to use os, re, and/or struct Python modules
- 3.2. Skill in utilizing network analysis tools to identify software communications vulnerabilities.
 - 3.2.1. Ability to identify/validate network communications using Wireshark
- 3.3. Ability to apply network programming using client/server model.
 - 3.3.1. Ability to appropriately decompose and solve stated problem with Python coding techniques
 - Ability to use socket Python module
- 3.4. Ability to write programs in C programming language.
 - 3.4.1. Ability to create/use branching structures
 - 3.4.2. Ability to create/use loops
 - 3.4.3. Ability to manipulate, create, and use pointers
 - 3.4.4. Ability to appropriately decompose and solve stated problem
- 3.5. Ability to apply secure coding techniques.
 - 3.5.1. Appropriate application of preconditions, exit conditions, and post conditions
- 3.6. Ability to write programs in ASM programming language.
 - 3.6.1. Ability to create/use branching instructions
 - 3.6.2. Ability to create/use jump instructions
 - 3.6.3. Ability to appropriately use immediate and indirect register addressing methods
 - 3.6.4. Ability to appropriately decompose and solve stated problem
 - 3.6.5. Ability to appropriately use calling conventions to enter/exit a function