**Green Pace Developer: Security Policy Guide Template**



# Green Pace Secure Development Policy

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## Overview

Software development at Green Pace requires consistent implementation of secure principles to all developed applications. Consistent approaches and methodologies must be maintained through all policies that are uniformly defined, implemented, governed, and maintained over time.

## Purpose

This policy defines the core security principles; C/C++ coding standards; authorization, authentication, and auditing standards; and data encryption standards. This article explains the differences between policy, standards, principles, and practices (guidelines and procedure): [Understanding the Hierarchy of Principles, Policies, Standards, Procedures, and Guidelines](https://www.linkedin.com/pulse/understanding-hierarchy-principles-policies-standards-wally-beddoe/).

## Scope

This document applies to all staff that create, deploy, or support custom software at Green Pace.

## Module Three Milestone

### Ten Core Security Principles

| **Principles** | Write a short paragraph explaining each of the 10 principles of security. |
| --- | --- |
| 1. ValidateInput Data | Tests input |
| 1. Heed Compiler Warnings | Warnings for dev on error or issue In code |
| 1. Architect and Design for Security Policies | Software architect and design for security policies must always be kept in mind when implementing security |
| 1. Keep It Simple | Simple design reduces chance of errors in coding and use |
| 1. Default Deny | Denying access by default can prevent unpermitted access |
| 1. Adhere to the Principle of Least Privilege | Processes should be executed using minimal privileges to complete the job for safety reasons |
| 1. Sanitize Data Sent to Other Systems | Sanitizing data before it is sent too other systems can prevent attacks such as SQL injection attacks |
| 1. Practice Defense in Depth | Multiple layers of defense is more effective at mitigating possible exploits and damage by containing it too a layer |
| 1. Use Effective Quality Assurance Techniques | Proper testing is crucial to make sure code meets quality assurance standards |
| 1. Adopt a Secure Coding Standard | Maintaining coding standards in your code can help code stay secure and efficient from the start |

### C/C++ Ten Coding Standards

Complete the coding standards portion of the template according to the Module Three milestone requirements. In Project One, follow the instructions to add a layer of security to the existing coding standards. Please start each standard on a new page, as they may take up more than one page. The first seven coding standards are labeled by category. The last three are blank so you may choose three additional standards. Be sure to label them by category and give them a sequential number for that category. Add compliant and noncompliant sections as needed to each coding standard.

#### Coding Standard 1

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **Data Type** | [STD-001-CPP] | Obey one-definition rule |

| **Noncompliant Code** |
| --- |
| Two different translation units define a class of the same name with different definitions |
| // a.cpp  struct S {  **int** a;  };    // b.cpp  class S {  public:  **int** a;  }; |

| **Compliant Code** |
| --- |
| Use a header file to introduce the object into both units of translation |
| // S.h  struct S {  **int** a;  };    // a.cpp  #include "S.h"    // b.cpp  #include "S.h" |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 2

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **Data Value** | [STD-002-CPP] | Does not read uninitialized memory |

| **Noncompliant Code** |
| --- |
| Uninitialized local variable is evaluated as part of an expression to print its value which results in undefined behavior |
| #include <iostream>    void f() {  **int** i;    std::cout << i;  } |

| **Compliant Code** |
| --- |
| Object is initialized prior to printing value |
| #include <iostream>    void f() {  **int** i = 0;    std::cout << i;  } |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 3

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **String Correctness** | [STD-003-CPP] | Does not attempt to create std::string from a null pointer |

| **Noncompliant Code** |
| --- |
| Std::string is created from the results of std::getenv() but returns a null pointer |
| #include <cstdlib>  #include <string>    void f() {    std::string tmp(std::getenv("TMP"));    if (!tmp.empty()) {      // ...    }  } |

| **Compliant Code** |
| --- |
| Std::getenv() is checked properly before object is constructed |
| #include <cstdlib>  #include <string>    void f() {    const **char** \*tmpPtrVal = std::**getenv**("TMP");    std::string tmp(tmpPtrVal ? tmpPtrVal : "");    if (!tmp.empty()) {      // ...    }  } |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 4

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **SQL Injection** | [STD-004-CPP] | Prevents sql injection |

| **Noncompliant Code** |
| --- |
| Untrusted data may alter query |
| uName = getRequestString("username");  uPass = getRequestString("userpassword");  sql = “SELECT \* FROM Users WHERE Name = " + uName + " AND Pass = " +  uPass + ” |

| **Compliant Code** |
| --- |
| [prevents sql injection |
| PreparedStatement pStmt = PreparedStatement();  std::cin >> username;  std::cin >> userpassword;  sql = “SELECT \* FROM Users WHERE Name = %s AND Pass = %s;”, username,  userpassword}; |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 5

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **Memory Protection** | [STD-005-CPP] | Does not access freed memory |

| **Noncompliant Code** |
| --- |
| S is dereferenced which can potentially be exploited |
| #include <new>    struct S {    void f();  };    void g() noexcept(false) {    S \*s = new S;    // ...    delete s;    // ...    s->f();  } |

| **Compliant Code** |
| --- |
| Dynamically allocated memory is not deallocated until its not required anymore |
| #include <new>    struct S {    void f();  };    void g() noexcept(false) {    S \*s = new S;    // ...    s->f();    delete s;  } |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 6

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **Assertions** | [STD-006-CLG] | Static assertion to test the value of a constant expression |

| **Noncompliant Code** |
| --- |
| Use assert() to macro assert property using memory-mapped structure so that code functions |
| #include <assert.h>    struct timer {    unsigned **char** MODE;    unsigned **int** DATA;    unsigned **int** COUNT;  };    **int** func(void) {  **assert**(sizeof(struct timer) == sizeof(unsigned **char**) + sizeof(unsigned **int**) + sizeof(unsigned **int**));  } |

| **Compliant Code** |
| --- |
| Preprocessor conditional used |
| struct timer {    unsigned **char** MODE;    unsigned **int** DATA;    unsigned **int** COUNT;  };    #if (sizeof(struct timer) != (sizeof(unsigned char) + sizeof(unsigned int) + sizeof(unsigned int)))    #error "Structure must not have any padding"  #endif |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 7

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| **Exceptions** | [STD-007-CPP] | Prevents abrupt termination of program |

| **Noncompliant Code** |
| --- |
| Call to f() may result in call too std::terminate |
| #include <cstdlib>    void throwing\_func() noexcept(false);    void f() { // Not invoked by the program except as an exit handler.    throwing\_func();  }    **int** main() {    if (0 != std::**atexit**(f)) {      // Handle error    }    // ...  } |

| **Compliant Code** |
| --- |
| F() handles all exceptions |
| #include <cstdlib>    void throwing\_func() noexcept(false);    void f() { // Not invoked by the program except as an exit handler.    try {      throwing\_func();    } catch (...) {      // Handle error    }  } |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 8

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| [Student Choice] | [STD-008-CPP] | Write constructor member to initialize canonical order |

| **Noncompliant Code** |
| --- |
| Declaration order does not match member initializer order |
| class C {  **int** dependsOnSomeVal;  **int** someVal;    public:    C(**int** val) : someVal(val), dependsOnSomeVal(someVal + 1) {}  }; |

| **Compliant Code** |
| --- |
| Change declaration order of class member variables so that dependency can be ordered properly |
| class C {  **int** someVal;  **int** dependsOnSomeVal;    public:    C(**int** val) : someVal(val), dependsOnSomeVal(someVal + 1) {}  }; |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 9

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| [Student Choice] | [STD-009-CPP] | Use valid iterator ranges |

| **Noncompliant Code** |
| --- |
|  |
| #include <algorithm>  #include <iostream>  #include <vector>    void f(const std::vector<**int**> &c) {    std::for\_each(c.end(), c.begin(), [](**int** i) { std::cout << i; });  } |

| **Compliant Code** |
| --- |
| Iterator value passed to std::for\_each |
| #include <algorithm>  #include <iostream>  #include <vector>    void f(const std::vector<**int**> &c) {    std::for\_each(c.begin(), c.end(), [](**int** i) { std::cout << i; });  } |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

#### Coding Standard 10

| **Coding Standard** | **Label** | **Name of Standard** |
| --- | --- | --- |
| [Student Choice] | [STD-010-CPP] | Don’t access objects our of their lifetime |

| **Noncompliant Code** |
| --- |
| Pointer is called to non-static member of function |
| struct S {    void mem\_fn();  };    void f() {    S \*s;    s->mem\_fn();  } |

| **Compliant Code** |
| --- |
| Storage is obtained for pointer prior to s::mem\_fn() |
| struct S {    void mem\_fn();  };    void f() {    S \*s = new S;    s->mem\_fn();    delete s;  } |

**Note: Stop here for the milestone. Complete this section for Project One in Module Six.**

| **Principles(s):** [Name the principle and explain how it maps to this standard.] |
| --- |

**Threat Level**

| **Severity** | **Likelihood** | **Remediation Cost** | **Priority** | **Level** |
| --- | --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

**Automation**

| **Tool** | **Version** | **Checker** | **Description Tool** |
| --- | --- | --- | --- |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

### Defense-in-Depth Illustration

This illustration provides a visual representation of the defense-in-depth best practice of layered security.



## Project One

There are seven steps outlined below that align with the elements you will be graded on in the accompanying rubric. When you complete these steps, you will have finished the security policy.

### Revise the C/C++ Standards

You completed one of these tables for each of your standards in the Module Three milestone. In Project One, add revisions to improve the explanation and examples as needed. Add rows to accommodate additional examples of compliant and noncompliant code. Coding standards begin on the security policy.

### Risk Assessment

Complete this section on the coding standards tables. Enter high, medium, or low for each of the headers, then rate it overall using a scale from 1 to 5, 5 being the greatest threat. You will address each of the seven policy standards. Fill in the columns of severity, likelihood, remediation cost, priority, and level using the values provided in the appendix.

### Automated Detection

Complete this section of each table on the coding standards to show the tools that may be used to detect issues. Provide the tool name, version, checker, and description. List one or more tools that can automatically detect this issue and its version number, name of the rule or check (preferably with link), and any relevant comments or description—if any. This table ties to a specific C++ coding standard.

### Automation

Provide a written explanation using the image provided.



Automation will be used for the enforcement of and compliance to the standards defined in this policy. Green Pace already has a well-established DevOps process and infrastructure. Define guidance on where and how to modify the existing DevOps process to automate enforcement of the standards in this policy. Use the DevSecOps diagram and provide an explanation using that diagram as context.

[Insert your written explanations here.]

### Summary of Risk Assessments

Consolidate all risk assessments into one table including both coding and systems standards, ordered by standard number.

| Rule | Severity | Likelihood | Remediation Cost | Priority | Level |
| --- | --- | --- | --- | --- | --- |
| STD-001-CPP | High | Unlikely | Medium | High | 2 |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

### Create Policies for Encryption and Triple A

Include all three types of encryption (in flight, at rest, and in use) and each of the three elements of the Triple-A framework using the tables provided***.***

* 1. Explain each type of encryption, how it is used, and why and when the policy applies.
  2. Explain each type of Triple-A framework strategy, how it is used, and why and when the policy applies.

Write policies for each and explain what it is, how it should be applied in practice, and why it should be used.

| 1. **Encryption** | **Explain what it is and how and why the policy applies.** |
| --- | --- |
| Encryption at rest | [Insert text.] |
| Encryption in flight | [Insert text.] |
| Encryption in use | [Insert text.] |

| 1. **Triple-A Framework\*** | **Explain what it is and how and why the policy applies.** |
| --- | --- |
| Authentication | [Insert text.] |
| Authorization | [Insert text.] |
| Accounting | [Insert text.] |

**\***Use this checklist for the Triple A to be sure you include these elements in your policy:

* User logins
* Changes to the database
* Addition of new users
* User level of access
* Files accessed by users

### Map the Principles

Map the principles to each of the standards, and provide a justification for the connection between the two. In the Module Three milestone, you added definitions for each of the 10 principles provided. Now it’s time to connect the standards to principles to show how they are supported by principles. You may have more than one principle for each standard, and the principles may be used more than once. Principles are numbered 1 through 10. You will list the number or numbers that apply to each standard, then explain how each of these principles supports the standard. This exercise demonstrates that you have based your security policy on widely accepted principles. Linking principles to standards is a best practice.

**NOTE:** Green Pace has already successfully implemented the following:

* Operating system logs
* Firewall logs
* Anti-malware logs

The only item you must complete beyond this point is the Policy Version History table.

## Audit Controls and Management

Every software development effort must be able to provide evidence of compliance for each software deployed into any Green Pace managed environment.

Evidence will include the following:

* Code compliance to standards
* Well-documented access-control strategies, with sampled evidence of compliance
* Well-documented data-control standards defining the expected security posture of data at rest, in flight, and in use
* Historical evidence of sustained practice (emails, logs, audits, meeting notes)

## Enforcement

The office of the chief information security officer (OCISO) will enforce awareness and compliance of this policy, producing reports for the risk management committee (RMC) to review monthly. Every system deployed in any environment operated by Green Pace is expected to be in compliance with this policy at all times.

Staff members, consultants, or employees found in violation of this policy will be subject to disciplinary action, up to and including termination.

## Exceptions Process

Any exception to the standards in this policy must be requested in writing with the following information:

* Business or technical rationale
* Risk impact analysis
* Risk mitigation analysis
* Plan to come into compliance
* Date for when the plan to come into compliance will be completed

Approval for any exception must be granted by chief information officer (CIO) and the chief information security officer (CISO) or their appointed delegates of officer level.

Exceptions will remain on file with the office of the CISO, which will administer and govern compliance.

## Distribution

This policy is to be distributed to all Green Pace IT staff annually. All IT staff will need to certify acceptance and awareness of this policy annually.

## Policy Change Control

This policy will be automatically reviewed annually, no later than 365 days from the last revision date. Further, it will be reviewed in response to regulatory or compliance changes, and on demand as determined by the OCISO.

## Policy Version History

| Version | Date | Description | Edited By | Approved By |
| --- | --- | --- | --- | --- |
| 1.0 | 08/05/2020 | Initial Template | David Buksbaum |  |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |
| [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] | [Insert text.] |

## Appendix A Lookups

### Approved C/C++ Language Acronyms

| Language | Acronym |
| --- | --- |
| C++ | CPP |
| C | CLG |
| Java | JAV |