

## SFIA skill description for Programming/software development

### SFIA Overall description

The design, creation, testing and documenting of new and amended software components from supplied specifications in accordance with agreed development and security standards and processes.

#### SFIA Level 5

Sets local or team-based standards for programming tools and techniques, including security guidelines, and the selection of appropriate development methods. Advises on application of standards and methods and ensures compliance. Takes technical responsibility for all stages and/or iterations in a software development project, providing method specific technical advice and guidance to project stakeholders. Assigns work packages, monitors performance and manages change control dynamically, to optimise productivity. Provides advice, guidance and assistance to less experienced colleagues as required.

#### SFIA Level 4

Designs, codes, tests, corrects and documents complex programs and scripts from agreed specifications, and subsequent iterations, using agreed standards and tools, to achieve a well engineered result. Takes part in reviews of own work and leads reviews of colleagues' work.

#### SFIA Level 3

Designs, codes, tests, corrects, and documents moderately complex programs and scripts from agreed specifications and subsequent iterations, using agreed standards and tools. Collaborates in reviews of specifications, with others as appropriate.

#### SFIA Level 2

Designs, codes, tests, corrects, and documents simple programs, or scripts and assists in the implementation of software which forms part of a properly engineered information or communications system.