# Software configuration PORT

Designing and deploying software product configurations into software environments or platforms.

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| **Guidance Notes:**  This skill is typically applied to the design and deployment of configurations of large, complex software.  This includes, but is not limited to:   * software for enterprise resource planning (ERP) and customer relationship management * server/mainframe operating systems * software as a service (SaaS) solutions * integration platforms/suites * tools provided by infrastructure as a service (IaaS) and platform as a service (PaaS) providers.   Activities may include, but are not limited to:   * porting software configurations across different environments or platforms * refactoring complex or overlapping configurations across different software modules and capabilities * designing and implementing configurations that use architectures and services like microservices, serverless, and containers * optimising configurations for performance, scalability, and cost-efficiency * managing configurations across multiple environments and ensuring interoperability * applying infrastructure as code principles to automate configuration deployment and management   Depending on requirements and the characteristics of the project or assigned work - software configuration methods and life cycles can be predictive (plan-driven) approaches or adaptive (iterative/agile) approaches. |

## Level 2

Assists with software configuration tasks under routine supervision.  
Supports the setup and customisation of software environments and platforms.  
Helps document and report on configuration changes and deployments.  
Reviews own work.

## Level 3

Designs, verifies, documents, amends and refactors moderately complex software configurations for deployment.   
Applies agreed standards and tools, to achieve a well-engineered result.   
Collaborates in reviews of work with others as appropriate.

## Level 4

Designs, verifies, documents, amends and refactors complex software configurations for deployment.   
Contributes to the selection of the software configuration methods, tools and techniques.  
Applies agreed standards and tools, to achieve well-engineered outcomes.   
Participates in reviews of own work and leads reviews of colleagues' work.

## Level 5

Takes technical responsibility across all stages and iterations of configuration development and deployment.   
Plans and drives software configuration activities. Adopts and adapts appropriate software configuration methods, tools and techniques.   
Measures and monitors the application of standards for configuration design and deployment including software security.   
Contributes to the development of organisational policies, standards, and guidelines for software configuration design and deployment.

## Level 6

Develops organisational policies, standards, and guidelines for software configuration design, deployment and refactoring.   
Plans and leads software configuration and deployment activities for strategic, large and complex deployment projects.   
Develops new methods and organisational capabilities and drives adoption of, and adherence to policies and standards.