

# Levels of Knowledge & Levels of Skill and Responsibility (SFIA Levels)

## Levels of Knowledge

This course will provide candidates with the levels of difficulty / knowledge highlighted within the following table, enabling them to develop the skills to operate at the levels of responsibility indicated.

The levels of knowledge are explained in the following text. Note that each K level subsumes lower levels. For example, a K4 level topic is one for which a candidate must be able to analyse a situation and extract relevant information. A question on a K4 topic could be at any level up to and including K4. As an example, a scenario requiring a candidate to analyse a scenario and select the best risk identification method would be at K4, but questions could also be asked about this topic at K3 and a question at K3 for this topic might require a candidate to apply one of the risk identification methods to a situation.

### Level 1: Remember (K1)

The candidate should be able to recognise, remember and recall a term or concept but not necessarily be able to use or explain. Typical questions would use: define, duplicate, list, memorise, recall, repeat, reproduce, state.

### Level 2: Understand (K2)

The candidate should be able to explain a topic or classify information or make comparisons. The candidate should be able to explain ideas or concepts. Typical questions would use: classify, describe, discuss, explain, identify, locate, recognise, report, select, translate, paraphrase.

### Level 3: Apply (K3)

The candidate should be able apply a topic in a practical setting. The candidate should be able to use the information in a new way. Typical questions would use: choose, demonstrate, employ, illustrate, interpret, operate, schedule, sketch, solve, use, write.

### Level 4: Analyse (K4)

The candidate should be able to distinguish/separate information related to a concept or technique into its constituent parts for better understanding, and can distinguish between facts and inferences. Typical questions would use: appraise, compare, contrast, criticise, differentiate, discriminate, distinguish, examiner, question, test.

### Level 5: Synthesise (K5)

The candidate should be able to justify a decision and can identify and build patterns in facts and information related to a concept or technique, they can create new meaning or structure from parts of a concept. Typical questions would use: appraise, argue, defend, judge, select, support, value, evaluate.

### Level 6: Evaluate (K6)

The candidate should be able to provide a new point of view and can judge the value of information and decide on its applicability in a given situation. Typical questions would use: assemble, contract, create, design, develop, formulate, write.

## Levels of Skill and Responsibility (SFIA\* Levels)

The levels of knowledge above will enable candidates to develop the following levels of skill to be able to operate at the following levels of responsibility (as defined within the SFIA framework) within their workplace:

### Level 1: Follow

Work under close supervision to perform routine activities in a structured environment. They will require assistance in resolving unexpected problems, but will be able to demonstrate an organised approach to work and learn new skills and applies newly acquired knowledge.

### Level 2: Assist

Works under routine supervision and uses minor discretion in resolving problems or enquiries. Works without frequent reference to others and may have influence within their own domain. They are able to perform a range of varied work activities in a variety of structured environments and can identify and negotiate their own development opportunities. They can also monitor their own work within short time horizons and absorb technical information when it is presented systematically and apply it effectively.

### Level 3: Apply

Works under general supervision and uses discretion in identifying and resolving complex problems and assignments. They usually require specific instructions with their work being reviewed at frequent milestones, but can determine when issues should be escalated to a higher level. Interacts with and influences department/project team members. In a predictable and structured environment they may supervise others. They can perform a broad range of work, sometimes complex and non-routine, in a variety of environments. They understand and use appropriate methods, tools and applications and can demonstrate an analytical and systematic approach to problem solving. They can take the initiative in identifying and negotiating appropriate development opportunities and demonstrate effective communication skills, sometimes planning, scheduling and monitoring their own work. They can absorb and apply technical information, works to required standards and understand and uses appropriate methods, tools and applications.

### Level 4: Enable

Works under general direction within clear framework of accountability and can exercise substantial personal responsibility and autonomy. They can plan their own work to meet given objectives and processes and can influence their team and specialist peers internally. They can have some responsibility for the work of others and for the allocation of resources. They can make decisions which influence the success of projects and team objectives and perform a broad range of complex technical or professional work activities, in a variety of contexts. They are capable of selecting appropriately from applicable standards, methods, tools and applications and demonstrate an analytical and systematic approach to problem solving, communicating fluently orally and in writing, and can present complex technical information to both technical and non-technical audiences. They plan, schedule and monitor their work to meet time and quality targets and in accordance with relevant legislation and procedures, rapidly absorbing new technical information and applying it effectively. They have a good appreciation of the wider field of information systems, their use in relevant employment areas and how they relate to the business activities of the employer or client.

### Level 5: Ensure & Advise

Works under broad direction, being fully accountable for their own technical work and/or project/supervisory responsibilities, receiving assignments in the form of objectives. Their work is often self-initiated and they can establish their own milestones, team objectives, and delegates responsibilities. They have significant responsibility for the work of others and for the allocation of resources, making decisions which impact on the success of assigned projects i.e. results, deadlines and budget. They can also develop business relationships with customers, perform a

challenging range and variety of complex technical or professional work activities and undertake work which requires the application of fundamental principles in a wide and often unpredictable range of contexts. They can advise on the available standards, methods, tools and applications relevant to own specialism and can make correct choices from alternatives. They can also analyse, diagnose, design, plan, execute and evaluate work to time, cost and quality targets, communicating effectively, formally and informally, with colleagues, subordinates and customers. They can demonstrate leadership, mentor more junior colleagues and take the initiative in keeping their skills up to date. Takes customer requirements into account and demonstrates creativity and innovation in applying solutions for the benefit of the customer.

#### **Level 6: Initiate and influence**

Have a defined authority and responsibility for a significant area of work, including technical, financial and quality aspects. They can establish organisational objectives and delegates responsibilities, being accountable for actions and decisions taken by them self and their subordinates. They can influence policy formation within their own specialism to business objectives, influencing a significant part of their own organisation and customers/suppliers and the industry at senior management level. They make decisions which impact the work of employing organisations, achievement of organisational objectives and financial performance, developing high-level relationships with customers, suppliers and industry leaders. They can perform highly complex work activities covering technical, financial and quality aspects. They contribute to the formulation of IT strategy, creatively applying a wide range of technical and/or management principles. They absorb complex technical information and communicate effectively at all levels to both technical and non-technical audiences, assesses and evaluates risk and understand the implications of new technologies. They demonstrate clear leadership and the ability to influence and persuade others, with a broad understanding of all aspects of IT and deep understanding of their own specialism(s). They take the initiative in keeping both their own and subordinates' skills up to date and to maintain an awareness of developments in the IT industry.

#### **Level 7: Set strategy, inspire and mobilise**

Have the authority and responsibility for all aspects of a significant area of work, including policy formation and application. They are fully accountable for actions taken and decisions made, by both them self and their subordinates. They make decisions critical to organisational success and influence developments within the IT industry at the highest levels, advancing the knowledge and/or exploitation of IT within one or more organisations. They develop long-term strategic relationships with customers and industry leaders, leading on the formulation and application of strategy. They apply the highest level of management and leadership skills, having a deep understanding of the IT industry and the implications of emerging technologies for the wider business environment. They have a full range of strategic management and leadership skills and can understand, explain and present complex technical ideas to both technical and non-technical audiences at all levels up to the highest in a persuasive and convincing manner. They have a broad and deep IT knowledge coupled with equivalent knowledge of the activities of those businesses and other organisations that use and exploit IT. Communicates the potential impact of emerging technologies on organisations and individuals and analyses the risks of using or not using such technologies. They also assess the impact of legislation, and actively promote compliance.

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