

Global Food Safety Initiative

Food Safety Auditor Competencies



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Introduction

Competence: The demonstrated ability to apply knowledge and skills to achieve intended results.

GFSI Guidance Document 6th Edition Part IV, Glossary of Terms

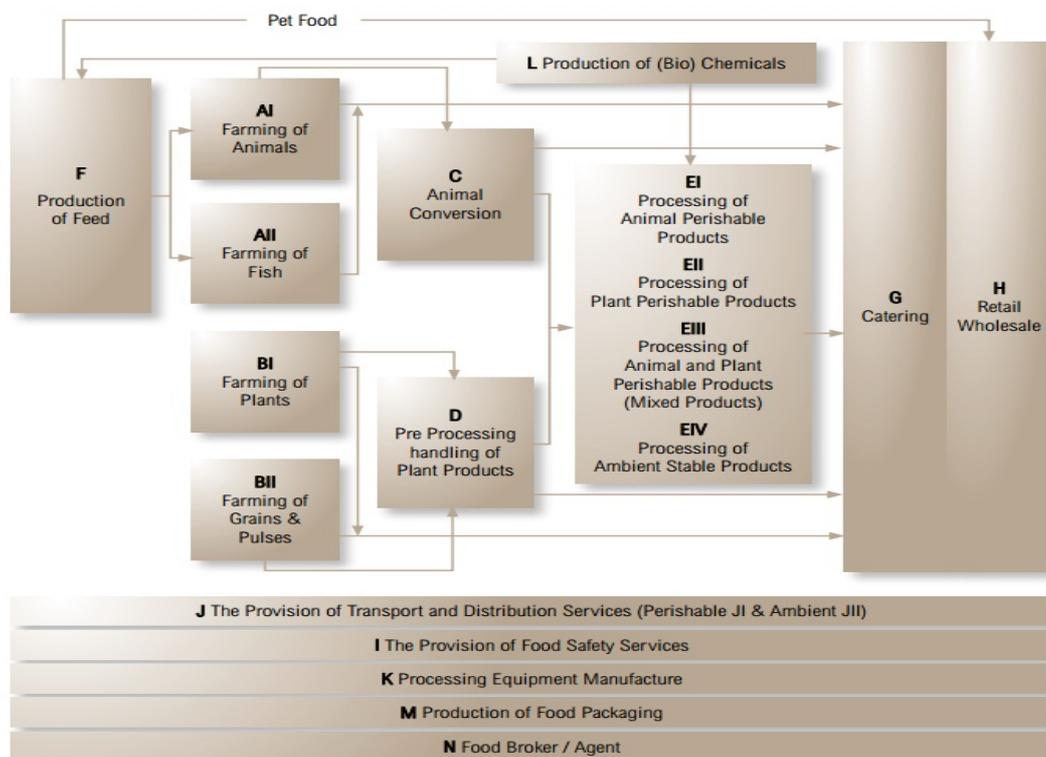
As GFSI benchmarked schemes have increased in number and international coverage, the consistency and rigor of the audit process has become increasingly important. Recognising this the GFSI Board established a multi-disciplinary Auditor Competence Scheme Committee (ACSC) to manage generic food safety auditor competencies underpinning all GFSI benchmarked schemes, and to oversee a process for assessing competencies and credentialing auditors of GFSI benchmarked standards.

The ACSC has developed a competency model for use by all GFSI stakeholders. The competencies have been validated using a professional testing organisation, and revised based on the outcomes of that study (2012). They have also been compared for alignment with the competencies outlined in ISO/DTS 22003 (as at July 2013), and those being developed by other international organisations for use by regulatory and commercial food safety auditors.

The competencies outlined in this document are those identified as applicable to all post farm-gate food manufacturing sectors. The ACSC is currently working on pre farm gate requirements, and will add further competencies as GFSI Technical Working groups publish requirements for other industry scopes (eg brokers, retail). The ACSC is also working on examination and assessment methodologies and options for credentialing auditors of GFSI benchmarked standards.

In the meantime, we invite all GFSI stakeholders to review, utilise as appropriate, and comment on the GFSI food safety auditor competencies. Constructive comments are welcome and should be addressed to gfsinfo@theconsumergoodsforum.com.

The references to GFSI scheme scopes in *Section 2. Technical Skills and Knowledge* relate to the scopes in the GFSI Guidance Document that are illustrated below. For more information, please refer to the GFSI Guidance Document, downloadable as a pdf from the GFSI web-site www.mygfsi.com.



The GFSI Competence Model

The GFSI competency model lists the knowledge and skills required to complete the common, generic tasks conducted by all food safety auditor auditing GFSI benchmarked standards. It is based on the key elements identified in part III of the GFSI Guidance Document, edition 6.

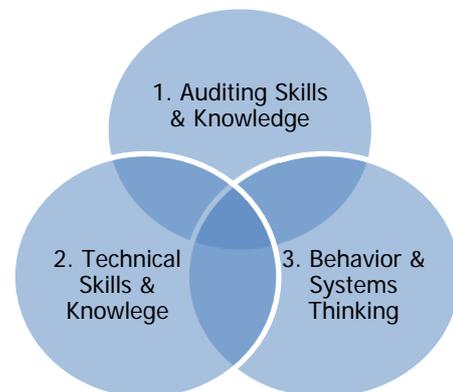
GFSI recognises that these are only foundation competencies and scheme-specific knowledge and skills are also required, and that additional higher-level technical skills can be developed once industry scopes are harmonised across all GFSI benchmarked schemes.

The competencies can be summarised as follows:

1. Auditing Skills & Knowledge

Auditing competencies common across all management system audits.

- 1.1 Plan and organise work effectively
- 1.2 Conduct the audit within the agreed timeframe
- 1.3 Communicate with auditee personnel at all levels
- 1.4 Collect evidence by conducting interviews
- 1.5 Collect evidence by observation and inquiry
- 1.6 Collect evidence by review of documentation and records
- 1.7 Analyse, verify and consolidate audit evidence and generate audit findings
- 1.8 Prepare written audit reports



2. Technical Skills & Knowledge

Knowledge and skills required to audit the key elements identified in the GFSI Guidance Document, edition 6, Part III: Scheme scopes and key elements

- 2.1 Food Safety Management (FSM) Requirements for Industry Scopes AI, All, BI, C, D, EI, EII, EIII, EIV, and L
- 2.2 Good Agricultural/Aquaculture Practice (GAP) Requirements for Industry Scopes AI, All, BI, and BII
- 2.3 Good Manufacturing Practice (GMP) Requirements for Industry Scopes D, EI, EII, EIII, EIV, and L
- 2.4 HACCP Requirements for all GFSI Industry Sectors

3. Behavior and Systems Thinking

- 3.1 Auditor Conduct and Behavior (personal behavior, audit leadership)
- 3.2 Systems Thinking (critical thinking, problem solving, root cause analysis)
- 3.3 Organizational Behaviour and Practices

The competencies are listed in detail in the following pages.

GFSI Food Safety Auditor Competencies in Detail

1. Auditing Skills & Knowledge

Task	Required Auditor Knowledge	Required Auditor Skills
<p>1.1 Plan and organise work effectively</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • terms and definitions applied to auditing of GFSI benchmarked standards • the principles of auditing as outlined in ISO 17021 -2011, ISO 19011 and GFSI scheme management guidelines • the objectives and methodology involved in an audit of a GFSI benchmarked standard • the key activities involved in a food safety audit program • the roles and responsibilities of auditors, Certification Bodies, and auditee personnel • management of an audit program. • initiating an audit of a GFSI benchmarked standard • the purpose and conduct of a document review • planning for an on-site audit • types and forms of management systems and product systems and where GFSI benchmarked standards audits fit within that context 	<p>Ability to:</p> <ul style="list-style-type: none"> • organize audit timing based on audit duration • establish initial contact with the auditee • initiate an audit • confirm the audit objectives, scope, and criteria • determine the feasibility of the audit • plan on-site audit activities including evaluation of the audit criteria, (including specific scheme criteria), identification of organizational and functional units, products, and or processes to be audited, and the role and responsibility of the auditor(s) • prepare audit plans, checklists, sampling plans, and evidence forms necessary to meet the audit objectives • direct and support technical experts (if applicable) • develop the audit report format and distribution including the storage and confidentiality of audit reports • identify auditee contacts and communicate the audit plan and timetable to the auditee • review and/or research the history of the facility

<p>1.2 Conduct the audit within the agreed timeframe</p> <p><i>The timeframe for the audit of a GFSI GFSI benchmarked standard is usually set by the Certification Body. However the auditor must have the knowledge and skills to effectively manage the time within the established timeframe</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> time management tools and techniques within the context of a site audit an audit of a GFSI benchmarked standard as a systematic, independent, and documented process for obtaining relevant audit evidence and evaluating it objectively to determine the extent to which the system criteria are met 	<p>Ability to:</p> <ul style="list-style-type: none"> apply time management tools and techniques that identify the individual tasks during the audit to meet the audit objectives organise audit activities to prioritise matters of significance prepare for the opening meeting, the audit, and the closing meeting outline and direct the involvement of technical experts (if applicable) and auditee contacts within the audit timetable allow time for audit team meetings (if applicable), auditee contact, evidence consolidation and report writing in the audit timetable and to keep others involved on timetable identify strategies to deal with distractions, deviations from the planned evidence path, and/or time wasting without compromising the audit objectives conduct an entry meeting that meets the meeting objectives within the scheduled time frame conduct the audit according to the agreed timetable conduct an exit meeting that meets the objectives within the scheduled time frame agree the timetable for corrective actions and follow-up activities dependent on the risk of the non-conformance recognize where changes to the audit schedule are needed
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<p>1.3 Communicate with auditee personnel at all levels</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • interpersonal skills • negotiation techniques • language, religious, and cultural sensitivities • effective verbal and non-verbal communication strategies • the vocabulary of food safety regulations, standard requirements, industry standards and technical papers, including microbiological terms and names, and chemical terms and names appropriate to a given industry sector • objection management techniques • conflict management • separation of auditing from consulting • self-awareness of professional and technical limitations 	<p>Ability to:</p> <ul style="list-style-type: none"> • apply interpersonal and negotiating skills in the context of an audit of a GFSI benchmarked standard • explain the purpose, scope, and methodology of the audit • establish a working relationship with the auditee that supports the intent and objectives of the food safety audit • communicate with all operational levels in the auditee food business that considers linguistic and technical skills, and the social customs within the business • talk to senior management and establish their level of commitment to the GFSI benchmarked standard • maintain objectivity during the audit process • assess non-verbal communications • discuss audit findings openly and honestly with auditee personnel, without error or omission • explain technical findings at the appropriate management level within the auditee organization • present audit findings to auditee and management clearly, concisely, and objectively, citing the evidence for non-conformance • resolve areas of potential conflict with auditee management, within the context of the audit objectives • maintain auditee confidentiality. • discuss the audit findings with only the agreed auditee personnel and/or audit client (if appropriate) • maintain composure, and avoid arrogance, anger or other negative behaviours • cite the evidence for non-conformities • identify and communicate issues without offering solution
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<p>1.4 Collect evidence by conducting interviews</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> interview and questioning styles and techniques effective listening techniques understanding of non-verbal communications , personal expression, and body language 	<p>Ability to:</p> <ul style="list-style-type: none"> select and interview appropriate staff at all levels within the auditee business to acquire valid audit evidence use appropriate questioning techniques listen to responses, and confirm responses
<p>1.5 Collect evidence by observation & inquiry</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> observation techniques verbal and non-verbal behaviours technologies in use to detect or eliminate food safety hazards statistical sampling techniques focussed (targeted) sampling (ie the concept that sampling will not necessarily be totally random and there will not always be time to take a statistically valid sample) 	<p>Ability to:</p> <ul style="list-style-type: none"> identify and prioritise audit activities in the context of a GFSI benchmarked standard and food safety risk identify and evaluate the application of technology for a given purpose observe and analyse personal behaviour and compare to written position descriptions identify problems or areas of concern and investigate to an acceptable level to establish conformity or non-conformity apply appropriate sampling techniques to document and record review adapt or modify sampling based on findings
<p>1.6 Collect evidence by review of documentation and records</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> vocabulary and language of food safety auditing The principles and elements of a GFSI benchmarked standard 	<p>Ability to:</p> <ul style="list-style-type: none"> establish the appropriate quantum of relevant, valid data to be reviewed to form a conclusion read, interpret and analyse documents and records contextualise (ie relate the realities of the organisation to the requirements of the standard)

<p>1.7 Analyse, verify, and consolidate audit evidence and generate findings</p>	<p>As per 1.1, 1.2, 1.3, plus the following additional knowledge requirement:</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> • data analysis techniques • consolidation of data into meaningful evidence • identification of non-conformities through objective evidence • specifications of non-conformities and requirements for corrective action for GFSI benchmarked standards 	<p>Ability to:</p> <ul style="list-style-type: none"> • interpret and summarise auditee documentation, technical standards and regulations relating to food safety and good management practice • confirm the sufficiency and appropriateness of audit evidence in the context of the requirements and the organisation's food safety management system • verify the accuracy of acquired information • accurately record audit evidence as it is collected • consolidate audit evidence into findings that meet the objectives of the audit and the conformity level of the auditee. • prepare levels of non-conformance (where applicable) • prepare non-conformance reports (where appropriate) that accurately explain the objective evidence (ie what was wrong with the system), the level of criticality of the non-conformance, the reference to the specific clause of the standard, and the explanation. • verbally communicate non-conformances as they are observed and at closing meeting without offering solution
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<p>1.8 Prepare written audit reports and follow up and conclusions</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • written communication techniques • knowledge of methods to identify strengths as well as non-conformities and opportunities for improvement • negotiation techniques • technical terms and definitions for a given industry sector • scheme standard and audit template • audit template and reporting requirements for specific GFSI benchmarked standards • appropriate corrective actions for identified non-conformities • Certification Body reporting requirements 	<p>Ability to:</p> <ul style="list-style-type: none"> • prepare audit conclusions that identify strengths, opportunities for improvement, and non-conformities • prepare written audit reports that are concise and accurately present the audit findings • produce written documents that are easily understood by the intended audience and communicates effectively the actual conditions to someone who was not present during the audit • review and confirm the accuracy of written audit reports • provide written confirmation of follow-up assessment of corrective actions • determine the adequacy of corrective actions proposed or taken by the auditee • conduct follow-up activities according to the agreed timetable • evaluate the effectiveness of corrective actions taken by the auditee • conduct post-audit review, and measure the effectiveness of the audit timetable and its impact on the audit objectives
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2. Technical Skills & Knowledge

2.1 Food Safety Management (FSM) Requirements for Industry Scopes AI, AII, BI, C, D, EI, EII, EIII, EIV, and L

Task	Required Auditor Knowledge	Required Auditor Skills
<p>The following technical competencies are applicable to all the above GFSI industry scopes unless otherwise indicated. Within each set of competencies, the auditor is required to apply the identified skills and knowledge to all industry scopes covered by the task.</p> <p>FSM1 Food safety management system general requirements <i>The standard shall require that the elements of the organisation's Food Safety Management System be documented, implemented, maintained and continually improved. The food safety management system shall:</i></p> <ol style="list-style-type: none"> <i>identify the processes needed for the food safety management system,</i> <i>determine the sequence and interaction of these processes,</i> <i>determine the criteria and methods required to ensure the effective operation and control of these processes,</i> <i>ensure the availability of information necessary to support the operation and monitoring of these processes,</i> <i>measure, monitor and analyse these processes and implement actions necessary to achieve planned results and continuous improvement.</i> <p><i>(reference Codex Alimentarius HACCP)</i></p>	<p>HACCP knowledge requirements of HACCP AB 1., and HACCP D, EL 1., plus knowledge of:</p> <ul style="list-style-type: none"> the key elements of a Food Safety Management System for a given industry sector a generic process approach to management Plan/Do/Check/Act (PDCA), the principles of continuous improvement as applied to food safety management and for appropriate industry sector applicable food safety regulations for a given industry sector food safety principles 	<p>HACCP skills requirements of HACCP AB 1., and HACCP D, EL 1., plus the ability to:</p> <ul style="list-style-type: none"> contextualise (ie relate the way the organisation has defined its processes as compared with the requirements of the standard) analyse the organisation's definition of the management processes needed for the food safety management system assess the sequence and interaction of these processes determine the criteria and methods required to ensure the effective operation and control of these processes assess the availability of information and procedures necessary to support the operation and monitoring of these processes assess the measurement and analysis of these processes assess the actions necessary to achieve planned results and continuous improvement
<p>FSM 2 Food safety policy <i>The standard shall require the organisation has a clear, concise and documented food safety policy statement and objectives specifying the extent of the organisation's commitment to meet the safety needs of its products.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> the purpose, objectives, content and application of a food safety policy as defined by the GFSI benchmarked standard 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the effectiveness and implementation of a food safety policy and its inter-relationship with the documented food safety management system within the context of the organisation
<p>FSM3 Food safety manual <i>The standard shall require the organisation has a Food Safety</i></p>	<p>Knowledge of</p> <ul style="list-style-type: none"> the requirements of a documented food safety 	<p>Ability to</p> <ul style="list-style-type: none"> assess the appropriateness, coverage, and currency of a

<p><i>Manual or documented system having a scope appropriate to the range of business activities to be covered, including documented procedures or specific reference to them and describing the interaction of the related process steps.</i></p>	<p>management system for a given industry sector</p> <ul style="list-style-type: none"> • appropriate technologies to manage documentation • document control systems • current industry trends and emerging issues for a given industry sector • knowledge of food safety regulations for a given industry sector 	<p>food safety manual for a given industry sector</p> <ul style="list-style-type: none"> • evaluate the scope of coverage of a facility's food safety manual within the supply chain • assess the effective dissemination of food safety documentation within a facility • evaluate if work instructions are aligned with the food safety manual • evaluate implementation of the food safety manual
<p>FSM 4 Management responsibility <i>The standard shall require that the supplier establish a clear organisational structure, which unambiguously defines and documents the job functions, responsibilities and reporting relationships of at least those staff whose activities affect food safety.</i></p>	<p>Knowledge of</p> <ul style="list-style-type: none"> • organisational structures and the inter-relationship of job functions • regulatory and legal requirements related to organisational structure and location 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the effective implementation of documented job functions • relate the observed job functions back to the documented organisational structure and position descriptions • review and interpret key performance indicators and food safety measures
<p>FSM 5 Management commitment <i>The standard shall require that the organisation's senior management provide evidence of their commitment to establish, implement, maintain and improve the food safety system.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Corporate governance, and the role of senior management in leading a food safety management system • the legal responsibility for management with regard to food safety • food safety objectives and KPIs in the context of the overall business performance 	<p>Ability to:</p> <ul style="list-style-type: none"> • access and communicate with senior management • assess the commitment of facility management to the implementation and maintenance of food safety practices • assess the food safety objectives and key performance indicators (KPIs) in the context of the overall business performance • review and interpret organisational performance measures and in particular food safety measures • analyse and assess the involvement of senior management in reviewing the food safety management system • read and interpret records, including meeting minutes • identify deficiencies / trends that demonstrate the lack of management commitment to the food safety system (areas include but are not limited to: training, plant maintenance/ equipment, resources, monitoring, GMPs, operations, prerequisite programs, HACCP, continuous improvement, etc..) Example: Correlate system

	<p>deficiencies of the training program to the lack of resources provided by senior management.</p> <ul style="list-style-type: none"> effectively communicate the lack of management commitment with senior management document the lack of management commitment in the audit reports 	
<p>FSM 6 Management review <i>The standard shall require that the organisation's senior management review the verification of the food safety system, HACCP Plan or HACCP based plans, at planned intervals, to ensure their continuing suitability, adequacy and effectiveness. The HACCP Plan shall also be reviewed in the event of any change that impacts food safety. Such a review shall evaluate the need for changes to the food safety system, including the food safety policy and food safety objectives.</i></p>	<p>Knowledge requirements under FSM 5 Management Commitment, plus knowledge of:</p> <ul style="list-style-type: none"> management system review procedures, including knowledge of scope, input/output frequency, implementation strategy, organisational structure and inter-relationship between positions within the structure. 	<p>Skills requirements under FSM 5 Management Commitment, plus the ability to:</p> <ul style="list-style-type: none"> assess the management system review process identify gaps in the management review process
<p>FSM 7 Resource management <i>The standard shall require that the organisation's senior management determine and provide, in a timely manner, all the resources needed to implement, maintain and improve the food safety system.</i></p>	<p>Knowledge of</p> <ul style="list-style-type: none"> the inter-relationship of food safety functions with other organisational functions business resources (time, money, and people) required to implement, maintain and improve the food safety system 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the effectiveness and suitability of the resources applied to food safety. Identify gaps in the resources applied to food safety
<p>FSM 8 General documentation requirements <i>The standard shall require that documentation procedures are in place to demonstrate compliance with the standard and ensure that all records required to demonstrate the effective operation and control of its processes and its management of food safety are securely stored for a time period required to meet customer or legal requirements, effectively controlled and readily accessible when needed.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> regulatory, standard and customer requirements for document control and record retention the requirements of food safety record retention for a given industry sector the requirements of food safety documentation in the context of process management, language and literacy levels record security protocols 	<p>Ability to:</p> <ul style="list-style-type: none"> evaluate the document and record control processes that are in place evaluate the security and storage of documents and records ensure the availability and access of food safety documentation to relevant staff identify gaps in available documentation understand and evaluate records
<p>FMS AI, All 8.1 General documentation requirements and FMS AI, All 9.1 Specified requirements (animal and fish farming only)</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> species classifications applicable to animal and aquaculture production, 	<p>Ability to:</p> <ul style="list-style-type: none"> evaluate the stock identification processes that are in place

<p><i>The standard shall ensure that the organisation keep comprehensive living stock records. The record will detail current living stock on the farm, an overview of recent living stock transactions and the recent loss situation within a population or living stock production unit.</i></p>	<ul style="list-style-type: none"> regulatory and customer requirements for living stock records stock language and terminology for a given industry sector tagging, marking or other techniques used for stock identification for a given industry sector record security protocols 	<ul style="list-style-type: none"> evaluate the stock control processes that are in place evaluate the security and storage of documents and records
<p>FSM 9 Specified requirements <i>The standard shall require that the organisation ensure that, for all inputs to the process, items and services (including utilities, transport and maintenance) that are purchased or provided and have an effect on product safety, documented specifications are prepared, maintained, securely stored and readily accessible when needed. The standard shall require that a specification review process is in place.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> the food safety inclusions required in raw material, ingredient, packaging material and service specifications for a given input or service the product safety requirements within contracts for process inputs and services (including utilities, transport, and maintenance) 	<p>Ability to:</p> <ul style="list-style-type: none"> read and interpret specifications, associate process and procedure requirements. assess the applicability of contracts identify gaps and omissions in available specifications verify the effective implementation of specifications and contracts
<p>FSM 10 Procedures <i>The standard shall require that the organisation establish, implement and maintain detailed procedures and instructions for all processes and operations having an effect on food safety.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> appropriate technologies to manage documentation components of management processes responsibilities for documentation, update version, definition of documents, documentation management 	<p>Ability to</p> <ul style="list-style-type: none"> compare actual operations with documented procedures assess the appropriateness, coverage, and currency of procedures and instructions for a given industry sector assess the effective dissemination of food safety documentation within a facility verify that standard operating procedures (SOPs) and work instructions are being followed
<p>FSM 11 Internal audit <i>The standard shall require that the organisation has an internal audit system in place to cover the scope of the food safety system, including the HACCP Plan or the HACCP based plan.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> internal audit principles and practice food safety verification activities appropriate to specific industry sectors the principles of continuous improvement as applied to food safety management 	<p>Ability to:</p> <ul style="list-style-type: none"> read and interpret an internal audit schedule evaluate the competence of internal auditors evaluate the adequacy of the internal audit based on scope read and review internal audit reports identify gaps in internal audit practices and reports verify that appropriate corrective actions are identified as necessary

<p>FSM.12 Corrective action <i>The standard shall require that the organisation has procedures for the determination and implementation of corrective action in the event of any significant non conformity relating to food safety.</i></p>	<p>As per FSM 1 Food safety management system general requirements, plus the following knowledge requirements: Knowledge of :</p> <ul style="list-style-type: none"> the principles and practice of corrective action as applied to food safety management difference between correction, corrective action, and preventative action 	<ul style="list-style-type: none"> verify corrective actions taken as a result of internal audits <p>As per FSM 1 Food safety management system general requirements, plus the following skill requirements Ability to:</p> <ul style="list-style-type: none"> assess the availability of information necessary to support the operation and monitoring of the food safety management processes assess the measurement and, analysis of these processes assess the corrective action plans necessary to achieve planned results and continuous improvement and prevent recurrence verify corrections and corrective-actions taken
<p>FSM.13 Control of non conformity <i>The standard shall require that the organisation has effective processes in place to ensure that any product, which does not conform to food safety requirements, is clearly identified and controlled to prevent unintended use or delivery. These activities shall be defined in a documented procedure that is securely stored and readily accessible when needed.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> processes required to identify, quarantine, hold, dispose of, or downgrade unsafe product in a given industry sector regulations covering disposition of unsafe product 	<p>Ability to:</p> <ul style="list-style-type: none"> identify the suitability of procedures in place for disposition of non-conforming or unsafe product assess the effectiveness of actions taken to deal with non-conforming or unsafe product
<p>FSM.14 Product release <i>The standard shall require that the organisation prepare and implement appropriate product release procedures.</i></p>	<p>Knowledge of</p> <ul style="list-style-type: none"> regulations applicable to product release the objective, structure and content required for a product release procedure in a given industry sector sampling and testing procedures relevant to product safety in a particular industry sector 	<p>Ability to</p> <ul style="list-style-type: none"> review and analyse sampling and test procedures for a given product. assess the appropriateness, application, and effectiveness of a product release procedure.
<p>FSM.15 Purchasing <i>The standard shall require that the organisation control purchasing processes to ensure that all externally sourced materials and services, which have an effect on food safety, conform to requirements. Where an organisation chooses to outsource any process that may have an effect on food safety, the organisation shall ensure control over such processes.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> the food safety inclusions required in raw material, ingredient, packaging material and service specifications for a given input or service contract management risk-based approved supplier protocols risk-based contract manufacturing protocols 	<p>Ability to:</p> <ul style="list-style-type: none"> read and understand the applicability of supplier contracts assess the appropriateness and effectiveness of applied approved supplier protocols identify gaps and omissions in approved supplier protocols verify the effectiveness of the approved supplier program

<p><i>Control of such outsourced processes shall be identified and documented within the food safety system.</i></p>	<p>FSM 16 Supplier performance <i>The standard shall require that the organisation establish, implement and maintain procedures for the evaluation, approval and continued monitoring of suppliers, which have an effect on food safety. The results of evaluations, investigations and follow up actions shall be recorded.</i></p>	<p>As per FSM 15 Purchasing, plus the following knowledge requirements: Knowledge of:</p> <ul style="list-style-type: none"> • performance monitoring 	<p>As per FSM 15 Purchasing, plus the following skill requirements: Ability to:</p> <ul style="list-style-type: none"> • apply performance monitoring techniques
<p>FSM AI, All 16.1, 16.2 Purchasing This requirement applies to animal and fish farming only <i>The standard shall ensure that the organisation has in place specific policies for the procurement of feed from approved, certified sources.</i> <i>The standard shall ensure that the organisation has in place specific policies for the procurement of approved veterinary medicines.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • specifications for feed stock supplied to particular animal species or aquaculture production • inherent hazards and risks associated with feed stock supplied to particular animal species or aquaculture production • veterinary medicines applicable to specific animal and aquaculture production, including mrls and withholding periods 	<p>Knowledge of:</p> <ul style="list-style-type: none"> • contract manufacturing and other services • knowledge of outsourcing protocols 	<p>Ability to:</p> <ul style="list-style-type: none"> • read and interpret feed supply contracts • read and interpret feed analysis reports • assess the effectiveness of feed supply protocols • identify gaps in feed supply protocols • verify the procedures for purchase of veterinary medicines for a given industry sector. • Identify gaps in the procedures for purchase of veterinary medicines for a given industry sector.
<p>FSM 17 Outsourcing <i>The standard shall require that, where an organisation chooses to outsource any process that may affect food safety, the organisation shall ensure control over such processes. Control of such outsourced processes shall be identified, documented and monitored within the food safety management system.</i></p>	<p>As per FSM 1 Food safety management system general requirements, plus the following knowledge requirements: Knowledge of:</p> <ul style="list-style-type: none"> • contract manufacturing and other services • knowledge of outsourcing protocols 	<p>As per FSM 1 Food safety management system general requirements, plus the following skill requirements: Ability to:</p> <ul style="list-style-type: none"> • read and ensure implementation of supplier agreements • Review and audit conformance of test results • Identify gaps and omissions in contract manufacturer procedures • verify the effectiveness of procedures in place to monitor contract manufacturers. 	<p>As per FSM 1 Food safety management system general requirements, plus the following skill requirements: Ability to:</p> <ul style="list-style-type: none"> • review the customer complaint process • assess the effectiveness of actions taken to prioritise and reduce customer complaints
<p>FSM 18 Complaint handling <i>The standard shall require that the organisation establish, implement and maintain an effective system for the management of complaints and complaint data to control and correct shortcomings in food safety.</i></p>	<p>As per FSM 1 Food safety management system general requirements, plus the following knowledge requirements: Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements for non-conforming product, withdrawal and recall • trend analysis 	<p>As per FSM 1 Food safety management system general requirements, plus the following skill requirements: Ability to:</p> <ul style="list-style-type: none"> • review the customer complaint process • assess the effectiveness of actions taken to prioritise and reduce customer complaints 	<p>As per FSM 1 Food safety management system general requirements, plus the following skill requirements: Ability to:</p> <ul style="list-style-type: none"> • review the customer complaint process • assess the effectiveness of actions taken to prioritise and reduce customer complaints

<p>FSM 19 Serious incident management <i>The standard shall require that the organisation establish, implement and maintain an effective incident management procedure, which is regularly tested for all products it supplies and covers planning for product withdrawal and product recall as required.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> Industry or trade protocols in place for serious incidents, trade withdrawals, or product recalls Finished stock identification and control processes. 	<ul style="list-style-type: none"> evaluate the significance of individual customer complaints as related to food safety assess the willingness of management and staff to correct and improve shortcomings in food safety <p>Ability to:</p> <ul style="list-style-type: none"> assess the effectiveness, communication, and application of traceability, withdrawal and recall procedures; review and analyse records of mock or actual withdrawals and recalls identify gaps in traceability, withdrawal and recall protocols.
<p>FMS AI, All 19.1, 19.2 Serious incident management This requirement applies to animal and fish farming only <i>The standard shall ensure that the organisation has the ability to take measures for the containment and quarantine of any living stock found to be infected with a notifiable disease, parasite or condition that would compromise food safety. The standard shall ensure that the organisation has the ability to take measures for the withdrawal and containment of contaminated feedstuffs.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> notifiable diseases, parasites, antibiotics, chemical use or conditions that would compromise food safety for a given industry sector regulations covering notifiable diseases and specific industry food safety controls epidemiological impact of disease outbreaks from a given industry sector specifications for feed stock supplied to particular animal species or aquaculture production inherent hazards and risks associated with feed stock supplied to particular animal species or aquaculture production regulations governing containment of contaminated feedstuffs risk-based withdrawal protocols for contaminated feedstuffs 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the effectiveness, communication, and application of procedures in place for notifiable diseases, parasites or condition that would compromise food safety identify gaps in serious incident protocols for animal and fish farming read and ensure implementation of supplier feed contract procedures read and interpret feed analysis reports review and audit conformance test results assess the appropriateness and effectiveness of feedstuff containment and withdrawal protocols identify gaps and omissions in feed withdrawal protocols verify the effectiveness of the feed withdrawal procedure.
<p>FSM 20 Control of measuring and monitoring devices <i>The standard shall require that the organisation identify the measurement of parameters critical to ensure food safety, the measuring and monitoring devices required and methods to assure that the calibration of these measuring and monitoring</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> the parameters critical to ensuring food safety and to meeting regulatory requirements and customer specification for a given industry sector, and measuring and monitoring equipment and devices used 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the appropriateness and effectiveness of devices used to measure food safety parameters review and analyse calibration procedures and records assess the appropriateness and effectiveness of

<p><i>devices is traceable to a recognised standard.</i></p>	<p>to measure food safety parameters for a given industry sector</p> <ul style="list-style-type: none"> • calibration methods for prescribed measuring and monitoring equipment and devices 	<p>calibration procedures</p> <ul style="list-style-type: none"> • identify gaps in calibration procedures • verify the disposition of product assessed using equipment that is out of calibration
<p>FSM 21 Food defence <i>The standard shall require that the organisation has a documented risk assessment procedure in place to address food defence risks and establish, implement and maintain a system to reduce or eliminate the identified risks. The system shall cover Good Agricultural Practices or Good Manufacturing Practices and shall be supported by the food safety system.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulations and or industry codes of practice governing food defence, food protection, food security, bioterrorism or sabotage • food defence risk management methodologies • food defence protocols applicable to particular countries, jurisdictions, and industry sector • typical food defence situations 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the effectiveness and application of the risk management process used to determine food defence risk • assess the effectiveness, communication, and application of food defence procedures • review and analyse records of mock food defence activities • identify gaps in food defence procedures
<p>FSM 22 Product labelling <i>The standard shall require that the organisation ensure that all product bears information to enable the safe handling, display, storage and preparation and use of the product within the food supply chain or by the consumer.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • food labelling legislation in the country of origin and the country(s) of destination applicable to a given product group • customer or industry codes of practice on labelling 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the effectiveness and application of label approval procedures • read product labels and establish the authenticity of information provided • verify the accuracy of label information
<p>FMS B 23, and DEL 23.1 Traceability <i>The standard shall require that the organisation establish, implement and maintain appropriate procedures and systems to ensure:</i></p> <ul style="list-style-type: none"> • Identification of any outsourced production, inputs or services related to food safety, • Product identification that includes, as a minimum, the name and address of the producer, • A record of purchaser and delivery destination for all products supplied. 	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements for non-conforming product, trade withdrawal and recall • product identification and traceability procedures 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the effectiveness, communication, and application of identification and traceability procedures • review records for raw material, packaging, WIP and finished stock to determine traceability • identify gaps in identification and traceability procedures • review and analyse mock trace results
<p>FMS AI, All 23 Traceability <i>This requirement applies to animal and fish farming only. The standard shall require that the organisation establish,</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • specifications for feed stock supplied to particular animal species or aquaculture production 	<p>Ability to:</p> <ul style="list-style-type: none"> • evaluate the stock identification and traceability procedures that are in place

<p><i>implement and maintain appropriate procedures and systems to ensure:</i></p> <ul style="list-style-type: none"> • <i>Identification of any outsourced production, inputs or services related to food safety,</i> • <i>A complete record of in-process material or final product and packaging throughout the production process,</i> • <i>A record of purchaser and delivery destination for all animals, fish, and animal or seafood products supplied,</i> • <i>Product identification that includes, as a minimum, the origin (producer and country) and the date of production or packing,</i> • <i>Input product identification including feed and feed additives that includes, as a minimum, the name and address of the producer, Lot or batch number,</i> • <i>Identification of any veterinary medication purchases and treatments,</i> • <i>A record of all living stock inputs and outputs, movements on and off-site, to either animal or batch, as appropriate to the industry norm for the species.</i> 	<ul style="list-style-type: none"> • inherent hazards and risks associated with feed stock supplied to particular animal species • risk-based approved supplier protocols 	<ul style="list-style-type: none"> • interpret and evaluate stock records • read and interpret feed supply contracts • read and interpret feed analysis reports • assess the appropriateness and effectiveness of stock and feed procurement procedures • identify gaps and omissions in stock and feed procurement procedures
<p>FMS AI, All, B 24, and DEL 24.1 Analysis of inputs (e.g. water, feedstuffs, ice) <i>The standard shall require that the organisation prepare and implement a system to ensure that analysis of inputs critical to the confirmation of food safety is undertaken and that such analyses are performed to standards equivalent to ISO 17025.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements governing inputs including processing aids, biochemical, feedstuffs, water and gasses • hazards and risks associated with inputs for a given industry sector including (but not limited to) processing aids, biochemical, feedstuffs, water and gasses 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the application and effectiveness of specifications and procedures in place to control the safety of inputs • review and evaluate analytical records and certificates of analysis • identify gaps in procedures in place to control inputs.
<p>FMS All 24.1 Analysis of Inputs (e.g. water, feed stuffs) This requirement applies to fish farming only <i>The standard shall require that the production and storage of ice, where used to store or transport at the point of slaughter, shall not compromise food safety.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • hazards and risks associated with ice production • hazards and risks associated with aquaculture 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the application and effectiveness of procedures in place to control the production, handling, and safety of ice used in transport • review and analyse ice production test reports

2. Technical Skills & Knowledge (cont'd)

2.2 Good Agricultural/Aquaculture Practice (GAP) Requirements for Industry Scopes AI, All, BI, and BII

A sub-group of the ASCC is working on the GAP competencies, due for completion 11/13

2.3 Good Manufacturing Practice (GMP) Requirements for Industry Scopes D, EL, EII, EIII, EIV, and L

Task	Required Auditor Knowledge	Required Auditor Skills
<p>Applicable to: D Pre-processing of Plant Products; E1 Processing – Animal; E2 Processing – Plant Products; E3 Processing of Mixed Products; E4 Ambient Stable Products; L Bio chemicals</p>		
<p>GMP D 1, EL 1 Facility environment & GMP D 2, EL 2 Local environment <i>The standard shall require that the site or facility be located and maintained so as to prevent contamination and enable the production of safe products. The standard shall require that all grounds within the site or facility be maintained to an appropriate standard</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> regulatory requirements relating to food premises standards and industry codes of practice concerning sanitary construction and design of food premises the food safety risks associated with the location and environment, including potential air, water contamination, pest control, etc sector specific risks such as waste management, dust control, and pest management 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the potential or actual food safety contamination risks associated with the site, grounds, external areas, surrounding properties, and process flow evaluate the measures taken by the site to control actual or potential food safety risks due to the site or location identify gaps in the control measures taken by the site to control actual or potential food safety risks due to the site or location
<p>GMP D 3, EL 3 Facility design, construction, layout and product flow <i>The standard shall require that premises, site and / or plant shall be designed, constructed and maintained, both the exterior and the interior, to control the risk of product contamination.</i></p>	<p>As per GMP D 1, EL 1, plus the following knowledge requirements:</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> potential contamination sources production processes for a given industry sector preventative and corrective maintenance practices and technologies used for Preventative Maintenance programs 	<p>As per GMP D 1, EL 1, plus the following skill requirements</p> <p>Ability to:</p> <ul style="list-style-type: none"> evaluate the design and construction measures taken by the site to prevent, minimise or eliminate food safety hazards and risks evaluate the application and effectiveness of the site and preventative and corrective maintenance program identify gaps in the site's preventative and corrective maintenance program
<p>GMP D 4, EL 4 Fabrication (input and material handling, preparation, product handling, packing and storage areas) <i>The standard shall require that the fabrication of the site, buildings and facilities be suitable for the intended purpose.</i></p>	<p>As per GMP D 1, EL 1, plus the following knowledge requirements:</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> types of materials suitable for construction of food manufacturing and storage facilities impact of detergents and sanitizers on materials used for fabrication of food facilities 	<p>As per GMP D 1, EL 1, plus the following skill requirements:</p> <p>Ability to:</p> <ul style="list-style-type: none"> assess the potential or actual food safety contamination risks associated with the fabrication of food manufacturing and storage facilities identify areas of potential product contamination or cross-contamination caused by building fabrication
<p>GMP D 5, EL 5 Equipment <i>The standard shall require that</i></p>	<p>As per GMP D 1, EL 1, and GMP D 4, EL 4, plus the following knowledge requirements:</p>	<p>As per GMP D 1, EL 1, and GMP D 4, EL 4, plus the following skill requirements:</p>

<p><i>equipment be suitably designed for the intended purpose and is used and stored so as to minimise food safety risks.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> regulatory requirements relating to food premises and equipment food safety contamination risks associated with the design and fabrication of food contact equipment 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the potential or actual food safety contamination risks associated with the design and fabrication of food contact equipment identify areas of potential product contamination or cross-contamination caused by food contact equipment.
<p>GMP D 6, EL 6 Maintenance <i>The standard shall require that a system of planned maintenance be in place covering all items of equipment, which are critical to product safety.</i></p>	<p>As per GMP D 1, EL 1, and GMP D 3, EL 3, plus the following knowledge requirement:</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> effective preventative and corrective maintenance programs for a given industry sector 	<p>As per GMP D 1, EL 1, and GMP D 3, EL 3, plus the following skill requirements:</p> <p>Ability to:</p> <ul style="list-style-type: none"> evaluate the application and effectiveness of the preventative and corrective maintenance program identify gaps in the site's preventative and corrective maintenance program
<p>GMP D 7, EL 7 Staff facilities <i>The standard shall require that staff facilities be designed and operated so as to minimise food safety risks.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> the risk of pathogen contamination from human contact standards and industry codes of practice concerning sanitary construction and design of food premises specific requirements regarding toilet rooms, locker rooms or change rooms, uniform issue, hand-washing facilities, and canteen areas in given industry sectors requirements for high-care areas where applicable personal hygiene practices for given industry sectors 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the potential or actual food safety contamination risks associated with the design and condition of staff facilities including toilet rooms, change rooms and canteens evaluate the application and effectiveness of procedures in place to manage food safety risk from staff facilities identify gaps in the site's procedures to manage food safety risk from staff facilities.
<p>GMP EL 8 Physical and chemical product contamination risk <i>The standard shall require that appropriate facilities and procedures be in place to control the risk of physical, chemical or biological contamination of product. (sector = category)</i></p>	<p>As per HACCP AB 1, and HACCP D, EL 1), plus the following additional skill requirements:</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> technologies associated with detection of contaminants including metal detectors, X-ray, sieves, filters, divert valves calibration requirements for relevant technologies regulatory and product knowledge of chemicals used within a food manufacturing plant including detergents, sanitizers, processing aids, water treatment chemicals, and pest management chemicals management of non-conforming product 	<p>As per HACCP AB 1, and HACCP D, EL 1), plus the following additional skill requirements:</p> <p>Ability to:</p> <ul style="list-style-type: none"> assess the potential or actual food safety contamination risks associated with the design, layout, and condition of production processes. assess the application and effectiveness of procedures in place to prevent product contamination evaluate the appropriateness, application, and effectiveness of technologies used to detect contaminants

<p>GMP D 9, EL 9 Segregation and cross-contamination <i>The standard shall require that procedures be in place to prevent contamination and cross-contamination of raw materials, packaging and finished product, covering all aspects of food safety including micro-organisms, chemicals and allergens.</i></p>	<p>As per GMP EL 8 Physical and chemical product contamination risk, plus the following additional knowledge requirements:</p> <p>Knowledge of:</p> <ul style="list-style-type: none"> allergens and their management in given industry sectors identity preserved foods and their management knowledge of biological hazards and control methods in given industry sectors 	<ul style="list-style-type: none"> evaluate the application and effectiveness of calibration procedures for existing technologies evaluate the appropriateness, application, and effectiveness of chemicals used for cleaning, water treatment, pest management, and other functions evaluate procedures in place to adequately dispose of non-conforming product. identify gaps in the facility's procedures and practices to control product contamination <p>As for GMP EL 8 Physical and chemical product contamination risk, plus the following additional skill requirements:</p> <p>Ability to:</p> <ul style="list-style-type: none"> evaluate procedures in place to identify and control allergens and to prevent cross-contact of allergens evaluate procedures in place to identify identity controlled foods evaluate air, water, traffic and facility design for potential cross contamination
<p>GMP EL 10 Stock management <i>The standard shall require that a system be in place to ensure that materials and ingredients are used in the correct order and within the allocated shelf life.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> product identification and traceability protocols and practices stock control, stock rotation and stock management protocols and practices definition and calculation of shelf life, including regulatory requirements where applicable 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the effectiveness, communication, and application of identification and traceability procedures review records for raw material, packaging, WIP, finished goods, processing aids, and chemicals review storage conditions for raw material, packaging, WIP, finished goods, processing aids, and chemicals review records that validate shelf life for a given product identify gaps in stock management and shelf life validation method
<p>GMP D 10, E 11 Housekeeping, cleaning and hygiene <i>The standard shall require that appropriate standards of housekeeping, cleaning and hygiene be maintained at all times and throughout all the stages.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> regulatory requirements concerning hygiene of food facilities the chemical action of detergents and sanitizers microbiological resistance to detergents and sanitizers allergen cleaning protocols for the removal of allergenic protein residue 	<p>Ability to:</p> <ul style="list-style-type: none"> evaluate the application, frequency, appropriateness, and effectiveness of cleaning and sanitation methods for a given product analyse sanitation schedules and records analyse environmental and product test results

<p><i>Cleaning materials shall be suitable for the intended use and stored appropriately.</i></p>	<ul style="list-style-type: none"> • cleaning and sanitation technologies and chemicals for a given industry sector, including wet cleaning, dry cleaning, foam cleaners, CIP • risk-based sanitation verification methods including (but not limited to) environmental swabbing, pre-operational checks, product testing, etc • environmental monitoring programs for high risk areas • backflow prevention methods • methods for verifying the effectiveness of cleaning 	<ul style="list-style-type: none"> • implement an effective environmental monitoring program for high risk areas • evaluate the effectiveness of sanitation verification procedures for a given product • identify gaps in cleaning and sanitation procedures and verification protocols • determine if back flow preventative measures are effective.
<p>GMP D 11, EL 12 Water quality and utility management (including ice) <i>The standard shall require that the quality of water (including steam and ice) that comes into contact with food, be regularly monitored and shall present no risk to product safety. Water for post-harvest washing shall be potable. Potable water shall be used and checked for contaminants at an appropriate frequency. Where applicable, storage of water and storage and handling of ice shall occur so as to prevent contamination.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements concerning the potability, treatment, separation and handling of water used for food contact, steam and ice production, post-harvest washing, and personal hygiene • technologies and methodologies for water treatment • industry codes of practice for identification and storage of potable and non-potable water supplies • risks associated with cross-connections, non-return valves, age and condition of water lines 	<p>Ability to:</p> <ul style="list-style-type: none"> • evaluate the application and effectiveness of methods used to treat and/or manage the potability of water used for food contact, steam and/or ice production, post-harvest washing, and personal hygiene • interpret water test results • identify and assess the separation of potable from non-potable water • identify gaps in the water quality program
<p>GMP D 12, EL 13 Waste management <i>The standard shall require that adequate systems be in place for the collation, collection and disposal of waste material.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements concerning the handling and disposal of waste materials, including environmental regulations governing air-borne, liquid, and solid waste control • potential product contamination sources for a given industry sector • waste handling, storage and disposal practices for a given industry sector • cleaning and housekeeping of waste containers, lines and equipment • personal hygiene requirements following handling of waste materials • management of pests and vermin in waste storage and handling 	<p>Ability to:</p> <ul style="list-style-type: none"> • evaluate the application and effectiveness of waste storage, handling, and disposal procedures • identify gaps in waste storage, handling and disposal procedures

	areas	
<p>GMP D 13, EL 14 Pest control</p> <p><i>The standard shall require that a system be in place for controlling or eliminating the risk of pest infestation on the site or in the facilities.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • food safety hazards and risks caused by pests and vermin in food premises • regulatory requirements concerning pest management and the use and handling of pest control chemicals • the use, storage, handling and disposal of pest control chemicals and mechanical pest control technologies • personal hygiene requirements following handling of pests and pest control chemicals 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the suitability and application of contract agreements with pest control contractors • identify the types of pests to be controlled for a given industry sector • assess the in-house ability of businesses to verify the competence of individuals responsible for pest control • evaluate the application and effectiveness of pest management procedures employed • analyse pest management reports • assess the effectiveness of storage requirements for pest control chemicals and equipment • identify gaps in pest management procedures
<p>GMP D 14, EL 15 Transport</p> <p><i>The standard shall require that all containers and vehicles, including contracted out vehicles, used for the storage and transportation of raw materials (including packaging), intermediate / semi-processed product and finished product (including packed, fresh product in final packaging) be suitable for the purpose and maintained in good repair and be clean.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements relating to food transport vehicles • standards and industry codes of practice concerning sanitary construction and design of food transport vehicles • the cold chain code of practice • the impact of climate (temperature, humidity) on product in transit • protection offered by packaging materials in differing climatic conditions • risks offered by packaging materials in differing climatic conditions (eg chemical migration) • food security in transit 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess the potential or actual food safety contamination risks associated with food transport for a given product group or industry sector • validate temperature and climatic logging devices • assess vehicle loading and unloading practices, including holding times • identify gaps in product transport arrangements
<p>GMP D 15, EL 16 Personal hygiene, protective clothing and medical screening</p> <p><i>The standard shall require that documented personal hygiene standards based on risk of product contamination be in place and personnel trained in them. Hand washing and toilet facilities</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • regulatory requirements concerning personal hygiene for food handlers • human transmission of food pathogens and risk mitigation measures • human transmission of allergenic protein residue and risk mitigation measures • suitability of medical screening procedures for detection of communicable diseases 	<p>Ability to:</p> <ul style="list-style-type: none"> • evaluate the application, frequency, appropriateness, and effectiveness of personal hygiene procedures for a given product • review the effectiveness of traffic and work patterns on minimising the risk of product contamination • analyse environmental and product test results • identify gaps in personal hygiene procedures and verification protocols

<p><i>shall be provided. Suitable and appropriate protective clothing shall be provided. A medical screening procedure shall be in place. In all cases these requirements shall also apply to contractors and visitors.</i></p>	<ul style="list-style-type: none"> the risk of traffic and work patterns on product safety statutory and industry standards for provision and condition of toilet rooms, change rooms, canteens, hand-wash stations,, break stations statutory and industry standards for provision and condition protective clothing, disposable gloves risk-based methodologies for verifying the effectiveness of personal hygiene programs 	
<p>GMP D 16, EL 17 Training <i>The standard shall require that a system be in place to ensure that all employees are adequately trained, instructed and supervised in food safety principles and practices, commensurate with their activity</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> regulatory requirements for training of food handlers competency-based training and assessment methods the content of position descriptions 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the application and effectiveness of training programs provided to food handlers assess the effective implementation of position descriptions by food handlers assess the effective implementation of documented food handlers job functions assess the effective supervision of food handlers Identify gaps in food safety training procedures
<p>GMP D 17 Packing and storage of product <i>The standard shall require that packaging materials be obtained with knowledge of origin, be appropriate for use and are used and stored so as not to be a source of contamination to product. Product shall be handled, sorted, graded and packed in a manner that minimises sources of biological, chemical and physical contamination. Product shall be held or stored in designated areas and handled under the proper conditions to minimise contamination.</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> regulatory requirements for food contact packaging barrier protection (moisture, oxygen, etc) offered by different packaging materials the relationship between barrier protection and shelf-life packaging material storage conditions for a given product group finished product storage conditions for a given product group 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the application and effectiveness of packaging material and finished product storage and work-in-progress validate the barrier protection properties for food contact materials with a given product group and given climatic conditions assess the suitability of a given packaging material throughout the shelf life of the product

2. Technical Skills & Knowledge (contd)

2.4 HACCP Requirements for all GFSI Industry Sectors

Tasks	Required Auditor Knowledge	Required Auditor Skills
<p>HACCP AB 1 Hazard Analysis and Critical Control Point (HACCP) Applies to the farming of animals, farming of fish, farming of plants, farming of grains and pulses, and production of feed</p> <p><i>The standard shall require that the organisation have in place a HACCP or HACCP based system including prerequisite programmes.</i></p> <p><i>It shall prescribe the measures taken to apply those critical controls to assure, monitor and maintain food safety. The HACCP-based system shall:</i></p> <p><i>i. Be prepared in accordance with Codex or NACMCF HACCP development methodology and</i></p> <p><i>ii. Cover a product or a product grouping and its production and</i></p> <p><i>iii. Include documented Standard Operating Practices (SOP's) and Work Instructions (WI's) as required and applicable to the organisation's Scope of Certification. The results of the hazard analysis shall demonstrate food safety management.</i></p> <p><i>The scope of the HACCP or HACCP based system shall be required to be defined</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Codex Alimentarius and National Advisory Committee on Microbiological Criteria for Foods (NACMCF) HACCP principles • the microbiological, chemical, and physical food safety hazards that may reasonably be expected to occur in a given industry sector • the control measures required to eliminate or minimise the microbiological, chemical, and physical food safety hazards for a given industry sector • industry developed HACCP-based plans for a given industry sector • the scope and purpose of a HACCP-based system • risk assessment/hazard analysis methodologies relevant to a given industry sector • The format and content of Standard Operating Practices (SOP's) and Work Instructions (WI's) • Corrective actions required when control is lost • Verification methodologies to ensure the effectiveness of the HACCP-based system 	<p>Ability to:</p> <ul style="list-style-type: none"> • assess that all potential food safety hazards have been identified for a given industry sector • assess that the hazard analysis and risk management methodologies have been applied correctly and consistently • evaluate the adequacy, application and effectiveness of control measures in place to eliminate or minimise the risk of potential hazards • evaluate the adequacy, understanding, application and effectiveness of Standard Operating Practices (SOP's) and Work Instructions (WI's) • assess the application and effectiveness of corrective action procedures in place where food safety control is lost • assess the application and effectiveness of verification procedures in place to ensure the adequacy of the HACCP-based system • assess adequacy of verification planning and validation of methods

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Tasks	Required Auditor Knowledge	Required Auditor Skills
<p>HACCP D, EL 1 Hazard Analysis and Critical Control Point (HACCP) Applies to all post-farm-gate industry sectors</p> <p><i>The standard shall require that the organisation have in place a Hazard Analysis and Critical Control Point system (HACCP) to demonstrate food safety management. The HACCP system shall be systematic, comprehensive and thorough and shall be based on the Codex Alimentarius HACCP principles or those principles specified by the National Advisory Committee on Microbiological Criteria for Foods (NACMCF). The HACCP system shall be capable of accommodating change, such as advances in equipment design, processing procedures or technological developments. The hazard analysis, where appropriate, shall include allergens.</i></p> <p><i>In all cases, the 7 Codex Alimentarius HACCP principles and the 12 step logic sequence for application of HACCP specified in the document, Recommended International Code of Practice – General Principles of Food Hygiene CAC/ RCP 1-1969, Rev. 4 -2003,</i></p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> Codex Alimentarius and National Advisory Committee on Microbiological Criteria for Foods (NACMCF) HACCP principles and implementation steps The Codex Alimentarius Commission General Principles of Food Hygiene CAC/ RCP 1-1969, Rev. 4 -2003 the preliminary steps in implementing HACCP (scope, team, product description, process flow diagram) the scope and purpose of a HACCP-based system the factors influencing food safety that must be included in a product description for a given industry sector the intended use of a given product constructing and verifying a process flow diagram the microbiological, chemical, and physical food safety hazards that may reasonably be expected to occur in a given industry sector the control measures required to eliminate or minimise the microbiological, chemical, and physical food safety hazards for a given industry sector risk assessment/hazard analysis methodologies relevant to a given industry sector determination of CCPs within a HACCP plan determination and validation of critical limits determination of monitoring procedures and frequency The format and content of Standard Operating Practices (SOP's) and Work Instructions (WI's) Determination of appropriate corrective and preventative action actions to dispose of affected product and prevent recurrence. verification procedures to ensure the effectiveness of the HACCP- 	<p>Ability to:</p> <ul style="list-style-type: none"> assess the appropriateness of the scope and purpose of the HACCP plan, and the HACCP team assess the appropriateness of the product description and intended use evaluate the accuracy of the process flow diagram assess that all potential food safety hazards have been identified assess that the hazard analysis and risk management methodologies have been applied correctly and consistently evaluate the adequacy, application and effectiveness of control measures in place to eliminate or minimise the risk of potential hazards assess whether CCPs have been correctly identified assess that critical limits are scientifically validated or justified, and correctly differentiate between safe and unsafe product. assess the application and effectiveness of corrective action procedures in place where food safety control is lost assess the application and effectiveness of verification procedures in place to ensure the adequacy of the HACCP-based system evaluate the adequacy, understanding, application and effectiveness of Standard Operating Practices (SOP's) and Work Instructions (WI's) ensure that the HACCP plan is reviewed periodically or when process changes occur



<p><i>shall apply.</i></p> <p><i>The scope of the HACCP system shall be required to be defined per product / product category and per process line / process-location.</i></p>	<p>bases system</p> <ul style="list-style-type: none">• The format and content of Standard Operating Practices (SOP's) and Work Instructions (WI's)	
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3. Behavior and Systems Thinking

Tasks	Required Auditor Knowledge	Required Auditor Skills
<p>3.1 Auditor Conduct and Behaviour</p> <p>Includes:</p> <ul style="list-style-type: none"> Personal behaviour Audit leadership 	<p>Knowledge of:</p> <ul style="list-style-type: none"> • conflict of interest • professional conduct required by auditors of GFSI benchmarked standards. • the behavioural attributes expected of food safety auditors including: <ul style="list-style-type: none"> ✓ Ethical; i.e. fair, truthful, sincere, honest and discreet, ✓ Open minded; i.e. willing to consider alternative ideas or points of view, ✓ Diplomatic; i.e. tactful in dealing with people, ✓ Observant; i.e. actually aware of physical surroundings and activities, ✓ Perceptive; i.e. instinctive, aware of and able to understand situations, ✓ Versatile; i.e. adjusts readily to different situations, ✓ Tenacious; i.e. persistent, focussed on achieving objectives, ✓ Decisive; i.e. timely conclusions based on logical reasoning, ✓ Self-reliant; i.e. acts independently whilst interacting effectively with others, ✓ Integrity, i.e. aware of need for confidentiality and observes professional code of conduct. ✓ moral courage • conflict management and resolution • roles and responsibilities of audit team leaders • team dynamics and synergy – the cooperative interaction among team members that creates an enhanced combined effect 	<p>Ability to:</p> <ul style="list-style-type: none"> • apply the appropriate behavioural attributes expected of a food safety auditor during the conduct of an audit. The auditor is able to demonstrate honesty, discretion, open-mindedness, diplomacy, perceptiveness, versatility, tenacity, decisiveness, and self-reliance. • deliver against the expected behaviours and show continuous improvement • have developed observation skills • maintain self-control and professionalism at all times and under all audit conditions. • readily respond to meeting the needs of internal and external clients. • resolve conflict with tact and diplomacy, but without succumbing to external pressures or un-verifiable facts. • plan the activities of an audit team effectively • develop a synergistic outcome from an audit team • recognise conflict of interest • conduct a self-assessment and develop continuous improvement strategies
<p>3.2 Systems Thinking.</p> <p>Includes:</p> <ul style="list-style-type: none"> Problem solving Critical thinking 	<p>Knowledge of:</p> <ul style="list-style-type: none"> • Principles of systems thinking - identification of issues as part of an overall system as a whole, rather than reacting to specific parts. • system improvement – special and common causes • the relationship of quality management and productivity to food safety 	<p>Ability to:</p> <ul style="list-style-type: none"> • big picture thinking. The ability to stand back and look at the system as a whole, rather than just the individual parts, • explain the inter-relationship between quality management, operations, productivity and food safety • identify special and common causes

<p>Root cause analysis</p>	<ul style="list-style-type: none"> • statistical process control and cause and effect analysis • applicable methods and techniques for understanding and resolving problems • tools and techniques to conceptualise, analyse, and evaluate performance data and information from a variety of sources • the methodology, tools and techniques of root cause analysis 	<ul style="list-style-type: none"> • correctly apply appropriate statistical process control tools • conduct cause and effect analysis • apply correct problem solving tools in a given situation
<p>3.3 Organizational Behaviour</p> <p>Includes: Business and organisational practices</p>	<p>Knowledge of:</p> <ul style="list-style-type: none"> • organisational structures and the inter-relationship of job functions. • general business processes and related terminology • cultural, religious, and social customs within a given organisation • ethical and moral principles and issues as applied to a given organisation and/or industry sector 	<p>Ability to:</p> <ul style="list-style-type: none"> • identify the inter-relationship of job functions within an organisation and the impact on the effectiveness of the food safety management system • identify the interaction of employees within an organisation and the impact on the effectiveness of the food safety management system • identify the cultural, religious, and social customs within an organisation and the impact on the effectiveness of the food safety management system • identify the application of ethical conduct within an organisation and its impact on the effectiveness of the food safety management system

References

The following sources were referenced in compiling the GFSI Food Safety Auditor competencies:

- *ISO 22003 :2006 - Food safety management systems – Requirements for bodies providing audit and certification of food safety management systems*
- *ISO/DTS 22003 (draft as at July 2013) - Requirements for bodies providing audit and certification of food safety management systems*
- *ISO 19011 :2011 - Guidelines for auditing management systems*
- *ISO/IEC 17021 :2011 - Conformity assessment -- Requirements for bodies providing audit and certification of management systems*
- *Food safety auditor competency : Proposed national competency criteria and management systems. Australian Government Department of Agriculture, Fisheries, and Forestry, Canberra, 2004*
- *GSCP Reference Tool for Auditing Competence, Global Social Compliance Programme, 2010*
- *GFSI Guidance Document, 6th edition (and subsequent), Part III, Scheme Scopes and Key Elements*
- *GFSI Technical Working Group on Auditor Competence, London, February 2011*