

## ERGEBNISBOGEN EQF-Bewertung

IT-Weiterbildungszertifikat

### > CISA® Certified Information Systems Auditor An ISACA® Certification <

Darmstadt, den 13. Mai 2014

Open C<sup>3</sup>S

Median (MD) / Minimum (Min.) / Maximum (Max.) der EQF-Stufen ...

... über alle Teilprozesse und Kategorien

[S. 1; Größe der Auswertungseinheit: N]

... je Kategorie über alle Teilprozesse

[S. 1; Größe der Auswertungseinheit: N]

... je Kategorie in den Teilprozessen

[S. 2; Größe der Auswertungseinheit: N]

N = Fallzahl; F = davon fehlend

Die nachfolgende EQF-Bewertung wurde durch ein Mitglied der ISACA Fachgruppe Akad. Aus- und Weiterbildung durchgeführt.

## Zusammenfassende Mediane

**Median in der Gesamtbetrachtung**  
der EQF-Stufe über alle Teilprozesse, Kategorien und Fälle

MD	Min.	Max.	N	F
5	3	7	138	0

**Kategorie "Kenntnisse"**  
Median der EQF-Stufe über alle Teilprozesse und Fälle

MD	Min.	Max.	N	F
4	3	7	46	0

**Kategorie "Fertigkeiten"**  
Median der EQF-Stufe über alle Teilprozesse und Fälle

MD	Min.	Max.	N	F
4	3	6	46	0

**Kategorie "Kompetenz"**  
Median der EQF-Stufe über alle Teilprozesse und Fälle

MD	Min.	Max.	N	F
5	5	6	46	0

**Werte je Kategorie in den Teilprozessen über alle Fälle**  
**und je Teilprozess über alle Kategorien und Fälle**

Weiterbildungszertifikat entsprechend CISA Review Manual 2013		Erlernte Kompetenzlevel je EQF-Kategorie in den Teilprozessen über alle Fälle					
<b>Chapter 1: The Process of Auditing Information Systems (S. 19)</b>							
1	<b>1.2 Management of the IS Audit Function (S. 29)</b> 1.2.1 Organization of the IS Audit Function 1.2.2 IS Audit Resource Management 1.2.3 Audit Planning Annual Planning Individual Audit Assignments 1.2.4 Effect of Laws and Regulations on IS Audit Planning	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	6	6	6	1	0
		Fertigkeiten	6	6	6	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	6	5	6	3	0		
2	<b>1.3 ISACA IT Audit and Assurance Standards and Guidelines (S. 31)</b> 1.3.1 ISACA Code of Professional Ethics 1.3.2 ISACA IT Audit and Assurance Standards Framework Auditing Standards 1.3.3 ISACA IT Audit and Assurance Guidelines Index of IT Audit and Assurance Tools and Techniques 1.3.4 ISACA IT Audit and Assurance Tools and Techniques Index of IT Audit and Assurance Tools and Techniques 1.3.5 Relationship Among Standards, Guidelines, and Tools and Techniques 1.3.6 Information Technology Assurance Framework™ (ITAFTM) Selection 2200 - General Standards Selection 2400 - Performance Standards Selection 2600 - Reporting Standards Selection 3000 - IT Assurance Guidelines Selection 3200 - Enterprise Topics Selection 3400 - IT Management Processes Selection 3600 - IT Audit and Assurance Processes Selection 3800 - IT Audit and Assurance Management	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	7	7	7	1	0
		Fertigkeiten	5	5	5	1	0
		Kompetenz	6	6	6	1	0
Über alle Kategorien	6	5	7	3	0		
3	<b>1.4 Risk Analysis (S. 43)</b>	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	6	6	6	1	0
		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	5	5	6	3	0		
4	<b>1.5. Internal Controls (S. 45)</b> 1.5.1 IS Control Objectives 1.5.2 COBIT 5 1.5.3 General Controls 1.5.4 IS Controls	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	6	6	6	1	0
		Fertigkeiten	6	6	6	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	6	5	6	3	0		

5	<b>1.6 Performing an IS Audit (S. 48)</b> 1.6.1 Classification of Audits 1.6.2 Audit Programs 1.6.3 Audit Methodology 1.6.4 Fraud Detection 1.6.5 Risk-based Auditing 1.6.6 Audit Risk and Materiality 1.6.7 Risk Assessment and Treatment Assessing Security Risks Treating Risks 1.6.8 Risk Assessment Techniques 1.6.9 Audit Objectives 1.6.10 Compliance vs. Substantive Testing 1.6.11 Evidence 1.6.12 Interviewing and Overserving Personnel in Performance of their Duties 1.6.13 Sampling 1.6.14 Using the Services of Other Auditors and Experts 1.6.15 Computer-assisted Audit Techniques CAATs as a Continuous Online Audit Approach 1.6.16 Evaluation of Strengths and Weaknesses Judging the Materiality of Findings 1.6.17 Communicating Audit Results Audit Reports Structure and Contents 1.6.18 Management Implementation of Recommendations 1.6.19 Audit Documentation	EQF-Kategorien					
		EQF-Kategorien	MD	Min.	Max.	N	F
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		Fertigkeiten	6	6	6	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	6	5	7	3	0		
6	<b>1.7 Control Self-assessment (S. 62)</b> 1.7.1 Objectives of CSA 1.7.2 Benefits of CSA 1.7.3 Disadvantages of CSA 1.7.4 Auditor Role in CSA 1.7.5 Technology Drivers for CSA 1.7.6 Traditional vs. CSA Approach	EQF-Kategorien					
		EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	5	5	5	1	0
		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	5	5	5	3	0		
7	<b>1.8 The Evolving IS-Audit Process (S. 64)</b> 1.8.1 Integrated Auditing 1.8.2 Continuous Auditing	EQF-Kategorien					
		EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	5	5	5	1	0
		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	5	5	5	3	0		
<b>Chapter 2: Governance and Management of IT (S. 69)</b>							
8	<b>2.2 Corporate Governance (S. 83)</b>	EQF-Kategorien					
		EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	3	3	3	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	3	3	5	3	0		
9	<b>2.3 IT-Governance (S. 83)</b> 2.3.1 Best Practices for IT Governance IT Governance and Management Frameworks Audit Role in IT Governance 2.3.2 IT Governance Committees 2.3.3 IT Balanced Scorecard 2.3.4 Information Security Governance Effective Information Security Governance 2.3.5 Enterprise Architecture	EQF-Kategorien					
		EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	5	5	5	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	5	4	5	3	0		
10	<b>2.4 Information Systems Strategy (S. 90)</b> 2.4.1 Strategic Planning 2.4.2 Steering Committee	EQF-Kategorien					
		EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	3	3	3	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	3	3	5	3	0		

11	<b>2.5 Maturity and Process Improvement Models (S. 91)</b>	EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
		Über alle Kategorien	4	3	5	3	0
12	<b>2.6 IT Investment and Allocation Practices (S. 91)</b> Values of IT Implementing IT Portfolio Management IT Portfolio Management vs. Balanced Scorecard	EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	3	3	3	1	0
		Kompetenz	5	5	5	1	0
		Über alle Kategorien	3	3	5	3	0
13	<b>2.7 Policies and Procedures (S. 92)</b> 2.7.1 Policies Information Security Policy 2.7.2 Procedures	EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
		Über alle Kategorien	4	3	5	3	0
14	<b>2.8 Risk Management (S. 94)</b> 2.8.1 Developing a Risk Management Program 2.8.2 Risk Management Process 2.8.3 Risk Analysis Methods Qualitative Analysis Methods Semiquantitative Analysis Methods Quantitative Analysis Methods	EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	4	4	4	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
		Über alle Kategorien	4	4	5	3	0
15	<b>2.9 Information Systems Management Practices (S. 97)</b> 2.9.1 Human Resource Management Hiring Employee Handbook Promotion Policies Training Scheduling and Time Reporting Employee Performance Evaluations Required Vacations Termination Policies 2.9.2 Sourcing Practices Outsourcing Practices and Strategies Industry Standards/Benchmarking Globalization Practices and Strategies Cloud Computing Outsourcing and Third-party Audit Reports Governance in Outsourcing Capacity and Growth Planning Third-party Service Delivery Management Service Improvement and User Satisfaction 2.9.3 Organizational Change Management 2.9.4 Financial Management Practices IT Budgets Software Development 2.9.5 Quality Management 2.9.6 Information Security Management 2.9.7 Performance Optimization	EQF-Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	4	4	4	1	0
		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
		Über alle Kategorien	5	4	5	3	0

16	<p><b>2.10 IS Organizational Structure and Responsibilities (S. 107)</b></p> <p>2.10.1 IS Roles and Responsibilities  Vendor and Outsourcer Management  Infrastructure Operations and Maintenance  Media Management  Data Entry  Systems Administrations  Security Administrations  Quality Assurance  Database Administration  System Analyst  System Architect  Applications Development and Maintenance  Infrastructure Development and Maintenance  Network Management</p> <p>2.10.2 Segregations of Duties Within IS</p> <p>2.10.3 Segregations of Duties Controls  Transaction Authorization  Custody of Assets  Access to Data  Compensating Controls for Lack of Segregation of Duties</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>5</td> <td>4</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	4	4	4	1	0	Fertigkeiten	5	5	5	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	5	4	5	3	0
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17	<p><b>2.11 Auditing IT Governance Structure and Implementation (S. 113)</b></p> <p>2.11.1 Reviewing Documentation</p> <p>2.11.2 Reviewing Contractual Commitments</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>5</td> <td>4</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	4	4	4	1	0	Fertigkeiten	5	5	5	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	5	4	5	3	0
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18	<p><b>2.12 Business Continuity Planning (S. 114)</b></p> <p>2.12.1 IS Business Continuity Planning</p> <p>2.12.2 Disasters or Other Disruptive Events  Pandemic Planning  Dealing With Damage to Image, Reputation or Brand</p> <p>2.12.3 Business Continuity Planning Process</p> <p>2.12.4 Business Continuity Policy</p> <p>2.12.5 Business Continuity Planning Incident Management</p> <p>2.12.6 Business Impact Analysis  Classification of Operations and Criticality Analysis</p> <p>2.12.7 Development of Business Continuity Plans</p> <p>2.12.8 Other Issues in Plan Development</p> <p>2.12.9 Components of a Business Continuity Plan  Key Decision-making Personnel  Backup of Required Supplies  Insurance</p> <p>2.12.10 Plan Testing  Specification  Test Execution  Documentation of Results  Results Analysis  Plan Maintenance</p> <p>2.12.11 Summary of Business Continuity</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>3</td> <td>3</td> <td>3</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>3</td> <td>3</td> <td>3</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>3</td> <td>3</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	3	3	3	1	0	Fertigkeiten	3	3	3	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	3	3	5	3	0
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19	<p><b>2.13 Auditing Business Continuity (S. 125)</b></p> <p>2.13.1 Reviewing the Business Continuity Plan  Reviewing the Document  Review the Applications Covered by the Plan  Review the Business Continuity Plan  Plan Testing</p> <p>2.13.2 Evaluation of Prior Test Results</p> <p>2.13.3 Evaluation of Offsite Storage</p> <p>2.13.4 Interviewing Key Personnel</p> <p>2.13.5 Evaluation of Security at Offsite Facility</p> <p>2.13.6 Reviewing Alternative Processing Contract</p> <p>2.13.7 Reviewing Insurance Coverage</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>5</td> <td>4</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	4	4	4	1	0	Fertigkeiten	5	5	5	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	5	4	5	3	0
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**Chapter 3: Information Systems Acquisition, Development and Implementation (S. 131)**

20	<b>3.2 Benefits Realization (S. 143)</b> 3.2.1 Portfolio/Program Management 3.2.2 Business Case Development and Approval 3.2.3 Benefits Realization Techniques	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien		4	3	5	3	0	
21	<b>3.3 Project Management Structure (S. 145)</b> 3.3.1 General Aspects 3.3.2 Project Context and Environment 3.3.3 Project Organizational Forms 3.3.4 Project Communication and Culture 3.3.5 Project Objectives 3.3.6 Roles and Responsibilities of Groups and Individuals	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	4	4	4	1	0
		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien		5	4	5	3	0	
22	<b>3.4 Project Management Practices (S. 149)</b> 3.4.1 Initiation of a Project 3.4.2 Project Planning Software Size Estimation Function Point Analysis FPA Feature Points Cost Budgets Software Cost Estimation Scheduling and Establishing the Time Frame Critical Path Methodology Gantt Charts Program Evaluation Review Technique Timebox Management 3.4.3 Project Controlling Management of Scope Changes Management of Resource Usage Management of Risk 3.4.4 Closing a Project	EQF-Kategorien					
		MD	Min.	Max.	N	F	
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		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien		5	4	5	3	0	
23	<b>3.5 Business Application Development (S. 155)</b> 3.5.1 Traditional SDLC Approach 3.5.2 Description of Traditional SDLC Phases Phase 1- Feasibility Study Phase 2 - Requirements Definition Phase 3A - Software Selection and Acquisition Phase 3B - Design Phase 4A - Development Phase 4B - Configuration Phase 5 - Final Testing and Implementation Phase 6 - Postimplementation Review 3.5.3 Integrated Resource Management Systems 3.5.4 Risk Associated With Software Development	EQF-Kategorien					
		MD	Min.	Max.	N	F	
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien		4	3	5	3	0	

24	<p><b>3.6 Business Application Systems (S. 172)</b></p> <p>3.6.1 Electronic Commerce  E-commerce Models  E-commerce Architecture  E-commerce Risks  E-commerce Requirements  E-commerce Audit and Control Issues (Best Practices)</p> <p>3.6.2 Electronic Data Interchange  General Requirements  Traditional EDI  Web-based EDI</p> <p>3.6.3 EDI Risks and Controls</p> <p>3.6.4 Controls in EDI Environment  Receipt of Inbound Transactions  Outbound Transactions  Auditing EDI</p> <p>3.6.5 Electronic Mail  Security Issues of Email  Standards for Email Security</p> <p>3.6.6 Point-of-sale Systems</p> <p>3.6.7 Electronic Banking  Risk Management Challenges in E-banking  Risk Management Controls for E-banking</p> <p>3.6.8 Electronic Finance</p> <p>3.6.9 Payment Systems  Electronic Money Model  Electronic Checks Model  Electronic Transfer Model</p> <p>3.6.10 Integrated Manufacturing Systems</p> <p>3.6.11 Electronic Funds Transfer  Controls in an EFT Environment</p> <p>3.6.12 Automated Teller Machine  Audit of ATM</p> <p>3.6.13 Interactive Voice Response</p> <p>3.6.14 Purchase Accounting System</p> <p>3.6.15 Image Processing</p> <p>3.6.16 Artificial Intelligence and Expert Systems</p> <p>3.6.17 Business Intelligence  Business Intelligence Governance</p> <p>3.6.18 Decision Support Systems  Efficiency vs. Effectiveness  Decision Focus  DSS Frameworks  Design and Development  Implementation and Use  Risk Factors  Implementation Strategies  Assessment and Evaluation  DSS Common Characteristics  DSS Trends</p> <p>3.6.19 Customer Relationship Management</p> <p>3.6.20 Supply Chain Management</p>	<table border="1"> <thead> <tr> <th colspan="6">EQF-Kategorien</th> </tr> <tr> <th></th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>4</td> <td>4</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien							MD	Min.	Max.	N	F	Kenntnisse	4	4	4	1	0	Fertigkeiten	4	4	4	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	4	4	5	3	0
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25	<p><b>3.7 Development Methods (S. 190)</b></p> <p>3.7.1 Use of Structured Analysis, Design and Development Techniques</p> <p>3.7.2 Agile Development</p> <p>3.7.3 Prototyping-evolutionary Development</p> <p>3.7.4 Rapid Application Development</p> <p>3.7.5 Object-oriented System Development</p> <p>3.7.6 Component-based Development</p> <p>3.7.7 Web-based Application Development</p> <p>3.7.8 Software Reengineering</p> <p>3.7.9 Revere Engineering</p>	<table border="1"> <thead> <tr> <th colspan="6">EQF-Kategorien</th> </tr> <tr> <th></th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>3</td> <td>3</td> <td>3</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>4</td> <td>3</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien							MD	Min.	Max.	N	F	Kenntnisse	3	3	3	1	0	Fertigkeiten	4	4	4	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	4	3	5	3	0
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Über alle Kategorien	4	3	5	3	0																																	

26	<b>3.8 Infrastructure Development/Acquisition Practices (S. 195)</b> 3.8.1 Project Phases of Physical Architecture Analysis Review of Existing Architecture Analysis and Design Draft Functional Requirement Vendor and Product Selection Writing Functional Requirements Proof of Concept 3.8.2 Planning Implementation of Infrastructure Procurement Phase Delivery Time Installation Plan Installation Test Plan 3.8.3 Critical Success Factors 3.8.4 Hardware Acquisition Acquisition Steps 3.8.5 System Software Acquisition 3.8.6 System Software Implementation	EQF-					
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Über alle Kategorien	4	3	5	3	0		
27	<b>3.9 Information Systems Maintenance Practices (S. 201)</b> 3.9.1 Change Management Process Overview Deploying Changes Documentation Testing Changed Programs Auditing Program Changes Emergency Changes Deploying Changes Back Into Production Change Exposures (Unauthorized Changes) 3.9.2 Configuration Management	EQF-					
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28	<b>3.10 System Development Tools and Productivity Aids (S. 205)</b> 3.10.1 Code Generators 3.10.2 Computer-aided Software Engineering 3.10.3 Fourth-generation Languages	EQF-					
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29	<b>3.11 Process Improvement Practices (S. 207)</b> 3.11.1 Business Process Reengineering and Process Change Projects BPR Methods and Techniques BPR Audit and Evaluation 3.11.2 ISO 9126 3.11.3 Capability Maturity Model Integration 3.11.4 ISO/IEC 15504	EQF-					
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30	<b>3.12 Application Controls (S. 210)</b> 3.12.1 Input/Origination Controls Input Authorization Batch Controls and Balancing Error Reporting and Handling 3.12.2 Processing Procedures and Controls Data Validation and Editing Procedures Processing Controls Data File Control Procedures 3.12.3 Output Controls 3.12.4 Business Process Control Assurance	EQF-					
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		Fertigkeiten	5	5	5	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	5	5	5	3	0		
31	<b>3.13 Auditing Application Controls (S. 215)</b> 3.13.1 Flow of Transactions Through the System 3.13.2 Risk Assessment Model to Analyze Application Controls 3.13.3 Observing and Testing User Performing Procedures 3.13.4 Data Integrity Testing 3.13.5 Data Integrity in Online Transactions Processing Systems 3.13.6 Test Application Systems 3.13.7 Continuous Online Auditing 3.13.8 Online Auditing Techniques	EQF-					
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32	<b>3.14 Auditing Systems Development, Acquisition And Maintenance (S. 217)</b> 3.14.1 Project Management 3.14.2 Feasibility Study 3.14.3 Requirement Definition 3.14.4 Software Acquisition Process 3.14.5 Detailed Design and Development 3.14.6 Testing 3.14.7 Implementation Phase 3.14.8 Postimplementation Review 3.14.9 System Change Procedures and the Program Migration Process	EQF-Kategorien					
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33	<b>4.2 Information Systems Operations (S. 237)</b> 4.2.1 Management of IS Operations Control Functions 4.2.2 IT Service Management Service Level 4.2.3 Infrastructure Operations Job Scheduling 4.2.4 Incident and Problem Management Process on Incident Handling Problem Management Detection, Documentation, Control, Resolution and Reporting of Abnormal Conditions 4.2.5 Support/Help Desk 4.2.6 Change Management Process 4.2.7 Release Management 4.2.8 Quality Assurance 4.2.9 Information Security Management 4.2.10 Media Sanitization	EQF-Kategorien					
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Über alle Kategorien	5	4	5	3	0		
34	<b>4.3 Information Systems Hardware (S. 243)</b> 4.3.1 Computer Hardware Components and Architectures Processing Components Input/Output Components Types of Computers Common Enterprise Back-end Devices Universal Serial Bus Memory Cards/Flash Drives Radio Frequency Identification 4.3.2 Hardware Maintenance Program 4.3.3 Hardware Monitoring Procedures 4.3.4 Capacity Management	EQF-Kategorien					
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Über alle Kategorien	4	3	5	3	0		
35	<b>4.4 IS Architecture and Software (S. 248)</b> 4.4.1 Operating Systems Software Control Features or Parameters Software Integrity Issues Activity Logging and Reporting Options 4.4.2 Access Control Software 4.4.3 Data Communications Software 4.4.4 Data Management File Organization 4.4.5 Database Management System DBMS Architecture Detailed DBMS Metadata Architecture Data Dictionary/Directory System Database Structure Database Controls 4.4.6 Tape and Disk Management Systems 4.4.7 Utility Programs 4.4.8 Software Licensing Issues 4.4.9 Digital Rights Management	EQF-Kategorien					
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		Fertigkeiten	4	4	4	1	0
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Über alle Kategorien	4	4	5	3	0		

36	<p><b>4.5 IS Network Infrastructure (S. 255)</b></p> <p>4.5.1 Enterprise Network Architectures  4.5.2 Types of Networks  4.5.3 Network Services  4.5.4 Network Standards and Protocols  4.5.5 OSI Architecture  4.5.6 Application of the OSI Model in Network Architecture  Local Area Network  Wide Area Network  Wireless Networks  Public "Global" Internet Infrastructure  Network Administration and Control  Applications in a Networked Environment  On-demand Computing</p>	<table border="1"> <thead> <tr> <th colspan="7">EQF-Kategorien</th> </tr> <tr> <th></th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> <th></th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Fertigkeiten</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Über alle Kategorien</td> <td>4</td> <td>4</td> <td>5</td> <td>3</td> <td>0</td> <td></td> </tr> </tbody> </table>	EQF-Kategorien								MD	Min.	Max.	N	F		Kenntnisse	4	4	4	1	0		Fertigkeiten	4	4	4	1	0		Kompetenz	5	5	5	1	0		Über alle Kategorien	4	4	5	3	0	
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37	<p><b>4.6 Auditing Infrastructure and Operations (S. 275)</b></p> <p>4.6.1 Hardware Reviews  4.6.2 Operating System Reviews  4.6.3 Database Reviews  4.6.4 Network Infrastructure and Implementation Reviews  4.6.5 IS Operations Reviews  4.6.6 Scheduling Reviews  4.6.7 Problem Management Reporting Reviews</p>	<table border="1"> <thead> <tr> <th colspan="7">EQF-Kategorien</th> </tr> <tr> <th></th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> <th></th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Fertigkeiten</td> <td>6</td> <td>6</td> <td>6</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Über alle Kategorien</td> <td>5</td> <td>5</td> <td>6</td> <td>3</td> <td>0</td> <td></td> </tr> </tbody> </table>	EQF-Kategorien								MD	Min.	Max.	N	F		Kenntnisse	5	5	5	1	0		Fertigkeiten	6	6	6	1	0		Kompetenz	5	5	5	1	0		Über alle Kategorien	5	5	6	3	0	
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38	<p><b>4.7 Disaster Recovery Planning (S. 282)</b></p> <p>4.7.1 Recovery Point Objective and Recovery Time Objective  4.7.2 Recovery Strategies  4.7.3 Recovery Alternatives  Contractual Provisions  Procuring Alternative Hardware  Application Disaster Recovery Methods  Data Storage Disaster Recovery Methods  4.7.4 Development of Disaster Recovery Plans  IT DRP Contents  IT DRP Scenarios  Recovery Procedures  4.7.5 Organization and Assignment of Responsibilities  4.7.6 Backup and Restoration  Offsite Libenary Controls  Security and Control of Offsite Facilites  Media and Documentation Backup  Types of Backup Devices and Media  Periodic Backup Procedures  Frequency of Rotation  Types of Media and Documentation Rotated  Backup Schemes  Method of Rotation  Record Keeping for Offsite Storage</p>	<table border="1"> <thead> <tr> <th colspan="7">EQF-Kategorien</th> </tr> <tr> <th></th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> <th></th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>3</td> <td>3</td> <td>3</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Fertigkeiten</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> <td></td> </tr> <tr> <td>Über alle Kategorien</td> <td>4</td> <td>3</td> <td>5</td> <td>3</td> <td>0</td> <td></td> </tr> </tbody> </table>	EQF-Kategorien								MD	Min.	Max.	N	F		Kenntnisse	3	3	3	1	0		Fertigkeiten	4	4	4	1	0		Kompetenz	5	5	5	1	0		Über alle Kategorien	4	3	5	3	0	
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Über alle Kategorien	4	3	5	3	0																																							

**Chapter 5: Protection of Information Assets (S. 295)**

39	<p><b>5.2 Importance of Information Security Management (S. 308)</b></p> <p>5.2.1 Key Element of Information Security Management Information Security Management System</p> <p>5.2.2 Information Security Management Roles and Responsibilities</p> <p>5.2.3 Inventory and Classification of Information Assets</p> <p>5.2.4 System Access Permission</p> <p>5.2.5 Mandatory and Discretionary Access Controls</p> <p>5.2.6 Privacy Management Issues and the Role of IS Auditors</p> <p>5.2.7 Critical Success Factors to Information Security Management</p> <p>5.2.8 Information Security and External Parties Identification of Risks Related to External Parties Addressing Security When Dealing With Customers Addressing Security in Third-party Agreements</p> <p>5.2.9 Human Resources Security and Third Parties Screening Terms and Conditions of Employment During Employment Termination or Change of Employment Removal of Access Rights</p> <p>5.2.10 Computer Crime Issues and Exposure Peer-to-peer Computing, Instant Messaging, Data Leakage and Web-based Technologies (e.g., Social Networking, Message Boards, Blogs)</p> <p>5.2.11 Security Incident Handling and Response</p>	EQF-					
		Kategorien					
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Über alle Kategorien							
6	5	6	3	0			

40	<p><b>5.3 Logical Access (S. 324)</b></p> <p>5.3.1 Logical Access Exposures</p> <p>5.3.2 Familiarization With the Enterprise's IT Environment</p> <p>5.3.3 Paths of Logical Access General Points of Entry</p> <p>5.3.4 Logical Access Control Software</p> <p>5.3.5 Identification and Authentication Logon IDs and Passwords Token Devices, One-time Passwords Biometrics Single Sign-on</p> <p>5.3.6 Authorization Issues Access Control Lists Logical Access Security Administration Remote Access Security Remote Access Using Handheld Devices Access Issues With Mobile Technology Audit Logging in Monitoring System Access Naming Conventions for Logical Access Controls</p> <p>5.3.7 Storing, Retrieving, Transporting and Disposing of Confidential Information Preserving Information During Shipment or Storage Media-specific Storage Precautions</p>	EQF-					
		Kategorien					
		MD	Min.	Max.	N	F	
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		5	5	5	1	0	
Über alle Kategorien							
4	3	5	3	0			

41	<p><b>5.4 Network Infrastructure Security (S. 335)</b></p> <p>5.4.1 LAN Security</p> <ul style="list-style-type: none"> <li>LAN Risks and Issues</li> <li>Virtualization</li> <li>Dial-up Access Controls</li> </ul> <p>5.4.2 Client-server Security</p> <ul style="list-style-type: none"> <li>Client-server Risks and Issues</li> </ul> <p>5.4.3 Wireless Security Threats and Risk Mitigation</p> <p>5.4.4 Internet Threats and Security</p> <ul style="list-style-type: none"> <li>Network Security Threats</li> <li>Passive Attacks</li> <li>Active Attacks</li> <li>Causal Factors for Internet Attack</li> <li>Internet Security Controls</li> <li>Firewall Security Systems</li> <li>Firewall General Features</li> <li>Firewall Types</li> <li>Examples of Firewall Implementations</li> <li>Firewall Issues</li> <li>Firewall Platforms</li> <li>Intrusion Detection Systems</li> <li>Intrusion Prevention Systems</li> <li>Honeypots and Honeynets</li> </ul> <p>5.4.5 Encryption</p> <ul style="list-style-type: none"> <li>Key Elements of Encryption Systems</li> <li>Symmetric Key Cryptographic Systems</li> <li>Public (Asymmetric) Key Cryptographic Systems</li> <li>Elliptical Curve Cryptography</li> <li>Quantum Cryptography</li> <li>Advanced Encryption Standard</li> <li>Digital Signatures</li> <li>Digital Envelope</li> <li>Public Key Infrastructure</li> <li>Applications of Cryptographic Systems</li> <li>Encryption Risks and Password Protection</li> </ul> <p>5.4.6 Viruses</p> <ul style="list-style-type: none"> <li>Virus and Worm Controls</li> <li>Management Procedural Controls</li> <li>Technical Controls</li> <li>Antivirus Software Implementation Strategies</li> </ul> <p>5.4.7 Voice-over IP</p> <ul style="list-style-type: none"> <li>VoIP Security Issues</li> </ul> <p>5.4.8 Private Branch Exchange</p> <ul style="list-style-type: none"> <li>PBX Risks</li> <li>PBX Audit</li> <li>PBX System Features</li> <li>PBX System Attacks</li> <li>Hardware Wiretapping</li> <li>Hardware Conferencing</li> <li>Remote Access</li> <li>Maintenance</li> <li>Special Manufacturer's Features</li> <li>Manufacturer's Development and Test Features</li> <li>Software Loading and Update Tampering</li> <li>Crash-restart Attacks</li> <li>Passwords</li> </ul>																														
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Über alle Kategorien	4	3	5	3	0																										

42	<p><b>5.5 Auditing Information Security Management Framework (S. 358)</b></p> <p>5.5.1 Auditing Information Security Management Framework  Reviewing Written Policies, Procedures and Standards  Logical Access Security Policies  Formal Security Awareness and Training  Data Ownership  Data Owners  Data Custodians  Security Administrator  New IT Users  Data Users  Documented Authorizations  Terminated Employee Access  Security Baselines  Access Standards</p> <p>5.5.2 Auditing Logical Access  Familiarization With the IT Environment  Assessing and Documenting the Access Paths  Interviewing Systems Personnel  Reviewing Reports From Access Control Software  Reviewing Application Systems Operations Manual</p> <p>5.5.3 Techniques for Testing Security  Terminal Cards und Keys  Terminal Identification  Logon IDs and Passwords  Controls Over Production Resources  Logging and Reporting of Computer Access Violations  Follow-up Access Violations  Bypassing Security and Compensating Controls  Review Access Controls and Passwords Administration</p> <p>5.5.4 Investigation Techniques  Investigation of Computer Crime  Computer Forensics  Protection of Evidence and Chain of Custody</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>6</td> <td>6</td> <td>6</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>5</td> <td>5</td> <td>6</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	6	6	6	1	0	Fertigkeiten	5	5	5	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	5	5	6	3	0
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Über alle Kategorien	5	5	6	3	0																											
43	<p><b>5.6 Auditing Network Infrastructure Security (S. 365)</b></p> <p>5.6.1 Auditing Remote Access  Auditing Internet Points of Presence  Network Penetration Tests  Full Network Assessment Reviews  Development and Authorization of Network Changes  Unauthorized Changes</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>3</td> <td>3</td> <td>3</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>5</td> <td>3</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	3	3	3	1	0	Fertigkeiten	5	5	5	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	5	3	5	3	0
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Kompetenz	5	5	5	1	0																											
Über alle Kategorien	5	3	5	3	0																											
44	<p><b>5.7 Environmental Exposures and Controls (S. 369)</b></p> <p>5.7.1 Environmental Issues and Exposures</p> <p>5.7.2 Controls for Environmental Exposures  Alarm Control Panels  Water Detectors  Handheld Fire Extinguishers  Manual Fire Alarms  Fire Suppression Systems  Strategically Locating the Computer Room  Regular Inspection by Fire Department  Fireproof Walls, Floors and Ceiling of the Computer Room  Electrical Surge Protectors  Uninterruptible Power Supply/Generator  Emergency Power-off Switch  Power Leads From Two Substations  Wiring Placed in Electrical Panels and Conduit  Inhibited Activities Within the IPF  Fire-resistant Office Materials  Documented and Tested Emergency Evacuation Plans</p> <p>5.7.3 Auditing Environmental Controls  Water and Smoke Detectors  Handheld Fire Extinguishers  Fire Suppression Systems  Regular Inspection by Fire Department  Fireproof Walls, Floors and Ceilings of the Computer Room  Electrical Surge Protectors  Power Leads From Two Substations  Fully Documented and Tested Business Continuity Plan  Wiring Placed in Electrical Panels and Conduit  UPS/Generator  Documented and Tested Emergency Evacuation Plans  Humidity/Temperature Control</p>	<table border="1"> <thead> <tr> <th>EQF-Kategorien</th> <th>MD</th> <th>Min.</th> <th>Max.</th> <th>N</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>Kenntnisse</td> <td>3</td> <td>3</td> <td>3</td> <td>1</td> <td>0</td> </tr> <tr> <td>Fertigkeiten</td> <td>4</td> <td>4</td> <td>4</td> <td>1</td> <td>0</td> </tr> <tr> <td>Kompetenz</td> <td>5</td> <td>5</td> <td>5</td> <td>1</td> <td>0</td> </tr> <tr> <td>Über alle Kategorien</td> <td>4</td> <td>3</td> <td>5</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	EQF-Kategorien	MD	Min.	Max.	N	F	Kenntnisse	3	3	3	1	0	Fertigkeiten	4	4	4	1	0	Kompetenz	5	5	5	1	0	Über alle Kategorien	4	3	5	3	0
EQF-Kategorien	MD	Min.	Max.	N	F																											
Kenntnisse	3	3	3	1	0																											
Fertigkeiten	4	4	4	1	0																											
Kompetenz	5	5	5	1	0																											
Über alle Kategorien	4	3	5	3	0																											

45	<b>5.8 Physical Access Exposures and Controls (S. 373)</b> 5.8.1 Physical Access Issues and Exposures Physical Access Exposures Possible Perpetrators 5.8.2 Physical Access Controls 5.8.3 Auditing Physical Access	EQF-					
		Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	4	3	5	3	0		
46	<b>5.9 Mobile Computing (S. 375)</b>	EQF-					
		Kategorien	MD	Min.	Max.	N	F
		Kenntnisse	3	3	3	1	0
		Fertigkeiten	4	4	4	1	0
		Kompetenz	5	5	5	1	0
Über alle Kategorien	4	3	5	3	0		

**Open Competence Center for Cyber Security**  
**TP 2: Anrechnungsanalysen und Anrechnungsmanagement**

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