



ISACA®

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ISACA® has designed and created *ICQ* and *Audit/Assurance Program for PCI DSS Compliance Program* (the "Work") primarily as an educational resource for assurance professionals. ISACA makes no claim that use of any of the Work will assure a successful outcome. The Work should not be considered inclusive of all proper information, procedures and tests or exclusive of other information, procedures and tests that are reasonably directed to obtaining the same results. In determining the propriety of any specific information, procedure or test, assurance professionals should apply their own professional judgment to the specific circumstances presented by the particular systems or information technology environment.

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This document provides the following PCI DSS assurance tools:

- 1. Internal controls questionnaire (ICQ) that assists enterprises with defining the scope of the assurance engagement and can be used during the exploration period of an audit. **Figure 1** shows the internal controls questionnaire.
- 2. Audit/assurance program for conducting a PCI DSS Compliance Program assessment, as described in chapter 14 of the *A practical Guide to the Payment Card Industry Data Security Standard (PCI DSS)* book. **Figure 2** shows the audit program that was prepared using the ICQ.

1 PCI DSS Compliance Program ICQ

Figure 1—Internal Controls Questionnaire

	<u> </u>	Response	9		COBIT 5
Control Objectives/ Questions	Yes	No	N/A	Comments	Reference
1 Development and Maintenance of a Program to Co					Reference
, , ,	. ,				
1.1 The organization must include compliance with PCI DSS	into the b	usiness str	ategy to se	et the tone-at-the-top.	T
Is PCI DSS compliance reflected in the enterprise					
strategy?					
Is PCI DSS addressed as a business risk rather than IT					
risk?		<u> </u>			
1.2 The board of directors and executive team must be acco	untable for	the imple	mentation	and maintenance of a	compliance
program to meet PCI DSS requirements.			1		Γ
Is PCI DSS compliance an element considered while					
setting and calculating incentives for the board of					
directors and executive team?		to me a at D/	TI DCC 40 C		
1.3 The organization must create and maintain a compliance	e program	to meet Pt	ו מסע וג requ	urements.	T
Is PCI DSS compliance part of the enterprise business					
goals? Is there a formal and documented strategy for					
achieving and sustaining PCI DSS compliance?					
Has the enterprise defined indicators to measure the					
compliance program performance?					
1.4 The PCI DSS Compliance Program should include a set of	l f nolicies tl	nat guide e	mnlovee k	l nehavior and nerforma	nce to ensure that
security is part of business as usual.	i policies d	iat guide t	inployee t	chavior and periorma	nee to ensure that
Are there defined and documented policies to ensure					
that employee behavior supports PCI DSS					
compliance?					
Is human resources involved in developing,					
distributing and enforcing PCI DSS-related employee					
policies?					
Does the enterprise document employee					
acknowledgment of PCI DSS compliance policies?					
1.5 The PCI DSS Compliance Program should include contin	uous secur	ity trainin	g awarene	ss plans to ensure that	all employees
understand the importance of maintaining a secure environ	ment to pr	otect card	holder dat	a.	
Is there a formal process for training employees at					
time of hiring?					
Is there a formal process for training employees					
periodically and testing their understanding?					
1.6 The PCI DSS Compliance Program must include plans to	hire third-	party asse	ssors to ev	valuate the control env	ironment and help
the organization identify gaps and level of compliance.	,				T
Does the enterprise have a formal process for					
contracting third-party PCI DSS assessors?					
Does the enterprise have a formal process for					
managing the relationship with third-party PCI DSS					
assessors?	1	1	I		I

Control Objectives/ Questions Is there documented criteria used to evaluate PCI DSS assessors as part of the contracting process? 1.7 The PCI DSS Compliance Porgam must be updated at a minimum every year or every time there is a major change in the organization's operations, the IT intrastructure, the PCI DSS requirements or the external environment. Does the enterprise have a formal and documented process for updating the PCI DSS compliance program? 1.8 The organization must hire and retain employees qualified to implement and maintain the necessary controls to meet PCI DSS compliance. Is there documented criteria used to evaluate PCI DSS job candidates as part of the hiring process? Does the enterprise provide the necessary training to ensure that employee skills needed to support PCI DSS compliance are current? 1.9 Service providers must be contractually obligated to comply with security requirements necessary to meet compliance. Is compliance with PCI DSS part of the contractual and sarvice level agreement negotiations? 1.10 Service provider collaboration is recognized as a key success factor and the organization has established policies and procedures to select suppliers and manage the supplier relationship and risk. Does the enterprise have a documented process for process? Is supplier field and manage the supplier relationship and risk. Deservice provider compliance is assessed periodically to ensure that the security perimeter has not been broken. Is supplier field have a documented process for process for a sees in the contractual negotiations? It service provider compliance is assessed periodically to ensure that the security perimeter has not been broken. Is there a process for assessing third-party PCI DSS compliance? 2.1 The organization must determine the level of compliance required by the PCI SSC. Is there a documented process to conduct periodic security controls are controls framework. 2.2 The organization must determine the evel of compliance required by the PCI DSS complianc		F	Response	9		COBIT 5
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				ic of SoftW	arej must be reviewed	by management to
	Does the enterprise have a change management		1			

,	R	Response			
					COBIT 5
Control Objectives/ Questions	Yes	No	N/A	Comments	Reference
process that includes the assessment of impact on					
PCI DSS components as part of the approval and					
acceptance criteria?					
3.3 Changes in the internal and external environment must					
control environment. Management must prepare remediation	on plans to	address a	ny negativ	e impact resulting fron	n changes.
Are changes that can impact the PCI DSS					
environment reviewed and approved by					
management?					
3.4 New application development must include plans to con	figure the r	necessary	controls to	comply with PCI DSS	requirements.
Does the enterprise have a software development					
process that includes assessing PCI DSS compliance					
as part of the development and acceptance					
requirements?					
Is PCI DSS compliance part of new software testing					
plans?					
3.5 The organization should engage third parties to perform		n testing	in a proact	ive way. Management	must prepare
remediation plans when penetration testing identifies weak	nesses.				
Does the enterprise have a formal process for					
contracting third-party network penetration					
assessors?					
Does the enterprise have a formal process for					
managing the relationship with third-party security					
assessors?					
Is there documented criteria used to evaluate					
security assessors as part of the contracting process?					
Are network penetration testing results properly					
documented and shared with stakeholders?					

Assurance Engagement: PCI DSS Compliance Program

Assurance Topic

Formal compliance with the Payment Card Industry Data Security Standard (PCI DSS) is carried out either by QSAs or through the completion of an SAQ. The topic of this assessment is the performance and appropriateness of the measures that are implemented to meet the PCI DSS standard, in the context of the enterprise's overall strategy and objectives.

Business Impact and Risk

PCI DSS is a mandatory compliance requirement for all enterprises that process, store, transmit or access cardholder information for any of the major payment card brands. Securing cardholder data is necessary to prevent damaging data breaches, and compliance is essential to avoid penalties from card scheme operators or acquiring banks. Merchants who fail to comply might be forced to pay an extra percentage for noncompliance. There are also fines for storing sensitive authentication data, which is not allowed under the standard. Penalties for data breaches in noncompliant companies can be severe, including large fines and the threat of future exclusion from the payment card network.

Risk resulting from ineffective or incorrect implementation and management of a program to meet and sustain compliance with PCI DSS could result in the following:

- Penalties and fines
- Financial losses due to fraud
- Financial losses resulting from cost associated with security investigations, customer relationship management and emergency fixes
- Revenue loss due to lost consumer confidence
- Reputational damage
- Loss of competitive advantage
- Lawsuits from consumers who experienced identity theft as a result of a security breach

Goal of the Review

The objective of the PCI DSS Compliance Program audit/assurance review is to provide management with an independent assessment relating to the governance, effectiveness and efficiency of PCI DSS security requirements across the enterprise, including the management of services that are delivered by external providers.

Scoping

The scope of this audit/assurance program is to assess the operating effectiveness of an enterprise program to meet and sustain PCI DSS compliance.

Note: This is not a PCI DSS controls assessment. This audit/assurance program has been developed to assess the development and maintenance of a strategy to implement the necessary controls to achieve compliance.

Figure 2—Audit/Assurance Program for PCI DSS Compliance Program

	IS Audit and Assurance Program—PCI DSS Compliance Program						
		Phase A—De	etermine Scope of the Assurance Initiative				
Ref.	Assurance Step		Guidance	Issue Cross-reference	Comments		
A-1	Determine the stakeholders of the assurance ini	tiative and their stake	e, i.e., the drivers for the assurance engagement.				
A-1.1	Identify the intended user(s) of the assurance report and their stake in the assurance engagement. This is the assurance objective.	Intended user(s) of the assurance report	Executive Board and Audit Committee: Require assurance of the governance, effectiveness and efficiency of PCI DSS security requirements across the enterprise, including the management of services delivered by external providers.				
A-1.2	Identify the interested parties, accountable and responsible for the subject matter over which assurance needs to be provided.	Accountable and responsible parties for the subject matter	Business Executives: Accountable for guidance on payment card laws and regulations. IT Steering Committee: Accountable for guidance on payment card systems and infrastructure, including their design/selection, implementation and management, and the monitoring of service performance, allocation of resources, delivery of benefits/value and management of IT risk. Business Owners: Responsible for identifying functional and security requirements, approving the design of payment card systems and managing their operational performance. In partnership with IT management, they are responsible for managing the correct and controlled use of payment card systems, in line with PCI DSS requirements and good industry practices. IT Management: Responsible for managing the correct and controlled use of payment card systems, in partnership with business executives and other stakeholders.				
A-2	Determine the assurance objectives based on assessment of the internal and external environment/context and of the relevant risk and related opportunities (i.e., not achieving the enterprise goals). Understand the enterprise strategy and	enterprise objective Enterprise objecti framework) or they Objectives of the goals, the IT-related set of specific goals Objectives of the components, i.e., d strategic objectives strategic objectives	ves are essentially a more detailed and tangible expression of those is relevant to the subject of the assurance engagement. ves can be formulated in terms of the generic enterprise goals (COBIT 5 can be expressed more specifically. assurance engagement can be expressed using the COBIT 5 enterprise digoals (which relate more to technology), information goals or any other is. assurance engagement will consider all three value objective elivering benefits that support strategic objectives, optimizing the risk that are not achieved and optimizing resource levels required to achieve the				
Λ-2.1	priorities.	annual report, etc.) document them to t For example, busin	about the enterprise strategy and priorities for the coming period, and he extent the process under review is relevant. ess initiatives for customer growth, maximization of profits, or IT mpact PCI DSS compliance strategy.				

	IS Audit and Assurance Program—PCI DSS Compliance Program								
	Phase A—Determine Scope of the Assurance Initiative								
Ref.	Assurance Step		Guidance	Issue Cross-reference	Comments				
A-2.2	<u>Understand</u> the internal context of the enterprise.	of the topic of the	environmental factors that could influence the performance and contents audit/assurance program under review. Examples relevant to PCI DSS ategy/risks; security roles & responsibilities; system/data ownership; al criteria, etc.						
A-2.3	<u>Understand</u> the external context of the enterprise.	of the topic of the might include extern status; etc.	environmental factors that could influence the performance and contents audit/assurance program under review . Examples relevant to PCI DSS nal business & security risks; contractual obligations; supplier compliance						
A-2.4	Given the overall assurance objective, <u>translate</u> the identified strategic priorities into concrete		are retained as key goals and additional goals to be supported, in rise strategy and priorities:						
	objectives for the assurance engagement.	Key goals	 Enterprise goals: EG01 Stakeholder value of business investments EG03 Manage business risk (safeguarding of assets) EG04 Compliance with external laws and regulations EG15 Compliance with internal policies IT-related goals: ITG01 Alignment of IT and business strategy ITG02 IT compliance and support for business compliance with external laws and regulations ITG03 Commitment of executive management for IT-related decisions ITG04 Manage IT-related business risk ITG05 Realized benefits from IT-enabled investments and service portfolio ITG07 Delivery of IT services in line with business requirements ITG10 Security of information, processing infrastructure and applications ITG11 Optimization of assets, resources and capabilities ITG13 Delivery of programs delivering benefits, on time, on budget, and meeting requirements and quality standards ITG15 IT compliance with internal policies ITG16 Competent and motivated business and IT personnel 						
		Additional goals	Enterprise goals: • IT-related goals:						
A-2.5	Define the organizational boundaries of the assurance initiative.	The scope of the ca	ardholder data environment (CDE) will help to determine the business and						
		All other aspects of	scope limitation are identified during phase A-3.						

		IS Audit and Assurance Program—PCI DSS Compliance Program		
		Phase A—Determine Scope of the Assurance Initiative		
Ref.	Assurance Step	Guidance	Issue Cross-reference	Comments
A-3	Determine the enablers in scope and the instance(s) of the enablers in scope.	COBIT 5 identifies seven enabler categories. In this section all seven enablers are covered and the assurance professional has the opportunity to select enablers from all categories to obtain the most comprehensive scope for the assurance engagement.		
A-3.1	Define the Principles, Policies and Frameworks in scope.	Principles, policies and frameworks refer to the communication mechanisms put in place to convey the direction and instructions of the governing bodies and management. In the context of a PCI DSS Compliance review, and taking into account the goals identified in A-2.4, the following principles, policies and frameworks could be considered in scope of the review: • Enterprise governance principles • Decision-making models • Authority levels The following COBIT 5 outputs and inputs are likely to be especially relevant: • ISMS policy (output, APO13). • Connectivity security policy (output, DSS05; input, APO01). • Information architecture model (input, DSS05; output, APO03). • Legal and regulatory compliance requirements (input, MEA03).		
A-3.2	Define which Processes are in scope of the review. Processes will be assessed during phase B of the assurance engagement against the criteria defined in phase A, and assessments will typically focus on: Achievement of process goals Application of process good practices Existence and quality of work products (inputs and outputs) (insofar not covered by the information items assessments)	COBIT 5: Enabling Processes distinguishes a governance domain with a set of processes and a management domain, with four sets of processes. The processes in scope are identified using the goals cascade and subsequent customization. The resulting lists contain key processes and additional processes to be considered during this assurance engagement. Available resources will determine whether they can all be effectively assessed. In the context of this audit/assurance program, processes considered strategic have been listed as key processes. Processes considered operational have been listed as additional processes (for example, BAI06 Manage Changes is an operational process that should be part of the Strategic Program to Implement and Sustain PCI DSS compliance). Key processes • EDM01 Ensure Governance Framework Setting and Maintenance • EDM02 Ensure Benefits Delivery • EDM03 Ensure Risk Optimization • EDM04 Ensure Resource Optimization • EDM05 Ensure Stakeholder Transparency • APO01 Manage the IT Management Framework • APO02 Manage Strategy • APO07 Manage Human Resources • APO08 Manage Relationships • APO10 Manage Risk • APO13 Manage Suppliers • APO13 Manage Security • MEA01 Monitor, Evaluate and Assess Performance and Conformance • MEA02 Monitor, Evaluate and Assess System of Internal Controls • MEA03 Monitor, Evaluate and Assess Compliance With External		
		Requirements Additional Processes APO03 Manage Enterprise Architecture APO04 Manage Innovation APO05 Manage Portfolio		

	IS Audit and Assurance Program—PCI DSS Compliance Program									
	Phase A—Determine Scope of the Assurance Initiative									
Ref.	Assurance Step	Guidance	Issue Cross-reference	Comments						
A-3.3	Define which Organizational Structures will be in scope. Organizational Structures will be assessed	APO06 Manage Budget and Costs APO09 Manage Service Level Agreements APO11 Manage Quality BAI01 Manage Programs and Projects BAI02 Manage Requirements Definition BAI03 Manage Solutions Identification and Build BAI04 Manage Availability and Capacity BAI05 Mange Organizational Change Enablement BAI06 Manage Changes BAI09 Manage Assets BAI10 Manage Configuration DSS01 Manage Operations DSS02 Manage Operations DSS02 Manage Problems DSS03 Manage Problems DSS04 Manage Security Services DSS05 Manage Business Process Controls Based on the key processes identified in A-3.2, the following Organizational Structures and functions are considered to be in scope of this assurance engagement, and available resources will determine which ones will be reviewed in detail. Key Board of directors								
	during phase B of the assurance engagement against the criteria defined in phase A, and assessments will typically focus on: Achievement of Organizational Structure goals, i.e., decisions Application of Organizational Structures good practices	Organizational Structures Chief financial officer (CFO) Chief information officer (CIO) Chief information security officer (CISO) Sales organization Risk management Internal audit/compliance Human resources								
		Additional Organizational Structures • Software development • IT operations • IT security • Change management • Configuration management • IT services (vendor management) • Legal								
A-3.4	<u>Define</u> the Culture , Ethics and Behavior aspects in scope.	In the context of this assignment, the following enterprisewide behaviors are in scope: Risk- and compliance-aware culture Accountability Enterprisewide security awareness Customer data protection is part of the enterprise strategy Management proactively monitors risk and action plans progress Service providers are treated as strategic partners								
A-3.5	Define the Information items in scope. Information items will be assessed during	COBIT 5: Enabling Processes defines a number of inputs and outputs between processes. Based on the scope of this audit/assurance program the following enabling information items have been identified. Key priorities and availability of resources will determine how many and								

		IS Audit and Assurance Program—PCI DSS Compliance Program		
		Phase A—Determine Scope of the Assurance Initiative		
Ref.	Assurance Step	Guidance	Issue Cross-reference	Comments
	phase B of the assurance engagement against the criteria defined in phase A, and assessments will typically focus on: Achievement of Information goals, i.e.,	which ones will be reviewed in detail. The inputs and outputs for the key processes identified in section A-3.2 can be used as additional information items for this audit/assurance program.		
	quality criteria of the information items • Application of Information good practices (Information attributes)	Key Information Items Third-party assessment results PCI DSS compliance certification Supplier contracts IT architecture designs Network diagrams Risk analysis results Penetration testing results Audit reports SOC 2 or equivalent reports		
		Additional Information Items Change management procedures Configuration management procedures Vendor management procedures PCI DSS compliance self-assessment results		
A-3.6	Define the Services, Infrastructure and Applications in scope.	In the context of this assignment, and taking into account the goals identified in A-2.4, the following services and related applications and infrastructure could be considered in scope of the review: • Enterprise and IT governance • Change management services and tools • Configuration management services and tools • Data centers • Software development services • Network operations • Hardware management • Security architecture • Development of secured applications • Deploy adequate secured and configured systems • User access and access rights provisioning • Adequate protection against malware, external attacks and intrusion attempts • Monitoring and alert services for security related events		
A-3.7	Define the People, Skills and Competencies in scope. Skill sets and competencies will be assessed during phase B of the assurance engagement against the criteria defined in phase A, and assessments will typically focus on: Achievement of skills set goals Application of skills set and competencies good practices	In the context of this assignment, taking into account key processes and key roles, the following skill sets are included in scope: Leadership Enterprise governance Risk management proficiency Customer service excellence Security awareness training PCI DSS framework, best practices and ancillary documentation proficiency Information security testing and assessment Information security experience Network management experience Change management experience Development and implementation of compliance frameworks experience		

	IS Audit and Assurance Program—PCI DSS Compliance Program					
		Phase B—Understand Enablers,	Setting Suitable Assessment Cr	riteria and Perform the Assessment		
Metrics						
Ref.			Steps and Guidance		Issue Cross-reference	Comments
B-1	Agree on metrics and criteria	for enterprise goals and IT-relate	ed goals. Assess enterprise goa	Is and IT-related goals.		
B-1.1	Leverage the list of suggested menterprise goals, taking care that Next, agree on the expected val	netrics for the enterprise goals to do t the suggested metrics are driven ues for these metrics, i.e., the valu	efine, discuss and agree on a set of by the performance of the topic of les against which the assessment	will take place.		
	-		ey enterprise goals defined in step			
	Enterprise Goal	Metric	Expected Outcome (Ex)	Assessment Step		
	EG01 Stakeholder value of business investments	Percent of enterprise strategic goals and requirements supported by IT strategic goals Percent of IT value drivers mapped to business value drivers Percent of executive management roles with clearly defined accountabilities for IT decisions Number of times IT is on the board agenda in a proactive manner Frequency of IT strategy (executive) committee meetings Rate of execution of executive IT-related decisions	At least 90 percent of IT strategic goals must be clearly related to enterprise goals. At least 90 percent of IT value drivers must be mapped to enterprise drivers. At least 95 percent of executives understand their roles and responsibilities to meet PCI DSS compliance. At least every six months PCI DSS compliance has been discussed by the board of directors. Frequent strategic meetings to discuss PCI DSS compliance as part of business as usual. At least 90 percent of remediation plans have been approved in time to meet objectives set by IT executives.	Review the enterprise strategy and determine the level of convergence between the business and IT. Review strategic IT plans and determine how many goals are directly related to meeting enterprise goals. Select a sample group of executives and assess their level of understanding and commitment to PCI DSS compliance. Review board of directors past meeting agendas and minutes to assess IT and PCI DSS relevance during those meetings. Review remediation plans and assess IT executives' scope of authority to review and approve action plans.		
	EG03 Managed business risk (safeguarding of assets) EG04 Compliance with	Percent of critical business objectives and services covered by risk assessment Ratio of significant incidents that were not identified in risk assessments vs. total incidents Frequency of update of risk profile Cost of regulatory	At least 85 percent of the cardholder data environment (CDE) is covered by an adequate information security risk assessment. At least a yearly update to the information security risk profile on the CDE.	 Gather all the information security risk assessments relating to the CDE. Determine the ratio of assets covered by the information risk assessment vs. the total assets in the CDE. Obtain the information security risk profile for in the CDE. Verify the date last updated was less than one year ago. Identify all in-scope PCI DSS 		

	IS Audit and Assurance Program—PCI DSS Compliance Program							
	Phase B—Understand Enablers, Setting Suitable Assessment Criteria and Perform the Assessment							
Metrics								
Ref.		Issue Cross-reference	Comments					
	externals laws and regulations	noncompliance, including settlements and fines Number of regulatory noncompliance issues causing public comment or negative publicity Number of regulatory noncompliance issues relating to contractual agreements with business partners	noncompliance issue relating to PCI DSS requirements • Maximum of one noncompliance issue relating to contractual agreements with business partners	requirements. • Verify that all PCI DSS assessments have been satisfactory.				
	EG15 Compliance with internal policies	Number of incidents related to noncompliance policy Percent of stakeholders who understand policies Percent of policies supported by effective standards and working practices	Maximum of one incident related to noncompliance with policies related to PCI DSS 100 percent stakeholders understand and agree with internal policies related to PCI DSS. 100 percent of policies supported by effective standards and working practices.	 Verify that the organization has not experienced compliance issues during a determined period (e.g., since last review). Select a sample list of employees and obtain signed policy acknowledgment forms. Identify all in-scope PCI DSS requirements and match them to standards and procedures. 				
B-1.2	Obtain (and agree on) metrics for achieved.	r IT-related goals and expected va	lues of the metrics and <u>assess</u> who	ether IT-related goals in scope are				
		ted values are agreed for the key I						
	IT-related Goal	Metric	Expected Outcome	Assessment Step				
	ITG01 Alignment of IT and business strategy	Percent of enterprise strategic goals and requirements supported by IT strategic goals Level of stakeholder satisfaction with scope of the planned portfolio of programs and services Percent of IT value drivers mapped to business value drivers	At least 90 percent of IT strategic goals must be clearly related to enterprise goals. At least 90 percent of IT value drivers must be mapped to enterprise drivers. At least 90 percent satisfaction with the level of compliance achieved.	Review the enterprise strategy and determine the level of convergence between the business and IT. Review strategic IT plans and determine how many goals are directly related to meeting enterprise goals. Assess stakeholders' level of satisfaction with PCI DSS compliance status.				
	ITG02 IT compliance and support for business compliance with external laws and regulations	Cost of IT noncompliance, including settlements and fines, and the impact of reputational loss Number of IT-related noncompliance issues reported to the board or causing public comment or	Maximum of one PCI DSS related noncompliance issues reported to the board per year	 Obtain an overview of all PCI DSS-related noncompliance issues in the past year. Verify impact analysis per issue. Mark issues reported to the board or causing business impact. 				

	IS Audit and Assurance Program—PCI DSS Compliance Program							
		Phase B—Understand Enablers,	Setting Suitable Assessment Cr	iteria and Perform the Assessment				
Metrics Ref.			Issue Cross-reference	Comments				
		embarrassment Number of noncompliance issues relating to contractual agreements with IT service providers Coverage of compliance assessments						
	ITG03 Commitment of executive management for making IT-related decisions	 Percent of executive management roles with clearly defined accountabilities for IT decisions Number of times IT is on the board agenda in a proactive manner Frequency of IT strategy (executive) committee meetings Rate of execution of executive IT-related decisions 	At least 95 percent of executives understand their roles and responsibilities to meet PCI DSS compliance. At least every six months PCI DSS compliance has been discussed by the board of directors. Frequent strategic meetings to discuss PCI DSS compliance as part of business as usual. At least 90 percent of remediation plans have been approved in time to meet objectives set by IT executives.	Select a sample group of executives and assess their level of understanding and commitment to PCI DSS compliance. Review board of directors past meeting agendas and minutes to assess IT and PCI DSS relevance during those meetings. Review remediation plans and assess IT executives' scope of authority to review and approve action plans.				
	ITG04 Managed IT-related business risk	Percent of critical business processes, IT services and IT-enabled business programs covered by risk assessment Number of significant IT-related incidents that were not identified in risk assessment Percent of enterprise risk assessments including IT-related risk Frequency of update of risk profile	At least 85 percent of business processes in scope for PCI DSS are covered during risk assessments. At least 95 percent of IT-related risk in scope of PCI DSS must be reviewed during risk assessment exercises. Based on volume of transactions/incidents, determine the number of incidents that is acceptable. At least a yearly update to the information security risk profile on the CDE.	Identify all business processes in scope for PCI DSS and determine if they are covered during risk assessments. Identify all IT-related risk in scope for PCI DSS and determine if it is covered during risk assessments. Identify incidents that resulted from risk that was not included in risk assessments. Review the latest risk profile for cardholder data and determine when it was updated.				
	ITG05 Realized benefits from IT-enabled investments and services portfolio	Percent of IT-enabled investments where benefit realization is monitored through the full economic life cycle Percent of IT services	At least 90 percent of systems are PCI DSS- compliant.	Review the latest assessment results to determine the level of compliance achieved.				

	IS Audit and Assurance Program—PCI DSS Compliance Program							
		Phase B—Understand Enablers,	Setting Suitable Assessment Cr	iteria and Perform the Assessment				
Metrics Ref.		Issue Cross-reference	Comments					
		where expected benefits are realized Percent of IT-enabled investments where claimed benefits are met or exceeded	Steps and Guidance		0.000 10.000.00			
	ITG07 Delivery of IT services in line with business requirements	Number of business disruptions due to IT service incidents Percent of business stakeholders satisfied that IT service delivery meets agreed-on service levels Percent of users satisfied with the quality of IT service delivery	 Based on volume of transactions/incidents, determine the number of incidents that is acceptable. At least 90 percent of business stakeholders should be satisfied with IT service delivery. At least 90 percent of users should be satisfied with IT service delivery. 	 Determine if the enterprise conducts internal IT service delivery satisfaction surveys and review latest results. Select a sample list of business stakeholders and users and determine their level of satisfaction. 				
	ITG10 Security of information, processing infrastructure and applications	Number of security incidents causing financial loss, business disruption or public embarrassment Number of IT services with outstanding security requirements Time to grant, change and remove access privileges, compared to agreed-on service levels Frequency of security assessment against latest standards and guidelines	 Maximum of one security incident per year related to payment card systems causing financial loss or other business impact. Time to grant, change and remove access privileges is never more than one working day for payment card systems. A security assessment of PCI DSS compliance is conducted twice a year. 	Obtain an overview of all security incidents in the past year related to payment card systems. Verify impact analysis per incident. Mark incidents that caused financial loss or other business impact. Assess efficiency for the following processes: Number of security incidents related to payment systems causing financial loss or other business impact Time to grant, change and remove access privileges, compared to agreed-on service levels for cloud services Frequency of PCI DSS compliance assessment				
	ITG11 Optimization of IT assets, resources and capabilities	Frequency of capability maturity and cost optimization assessments Trend of assessment results Satisfaction levels of business and IT executives with IT-related costs and capabilities	At least 80 percent of business executives are satisfied with IT performance to implement and sustain a secure environment.	Select a sample group of business executives and assess their level of satisfaction. Document any complaints.				
	ITG13 Delivery of programs delivering benefits, on time, on budget, and meeting	Number of programs/projects on time	At least 90 percent PCI DSS implementation and	Review project plans and determine if the completion date and actual costs				

		<u> </u>		" - "		
			surance Program—PCI DSS Co			
Metrics		Phase B—Understand Enablers,	Setting Suitable Assessment C	riteria and Perform the Assessment		
Ref.		Assurance	Steps and Guidance		Issue Cross-reference	Comments
	requirements and quality standards	and within budget Percent of stakeholders satisfied with program/project quality Number of programs needing significant rework due to quality defects Cost of application maintenance vs. overall IT cost	maintenance plans are on time, on budget and meet business defined requirements.	are within the thresholds established by the business.		
	ITG15 IT compliance with internal policies	Number of incidents related to noncompliance to policy Percent of stakeholders who understand policies Percent of policies supported by effective standards and working practices Frequency of policies review and update	Maximum of one incident related to noncompliance with policies related to PCI DSS. 100 percent stakeholders understand and agree with internal policies related to PCI DSS. Policies are reviewed and updated at least on a yearly basis.	Verify that the organization has not experienced compliance issues during a determined period (e.g., since last review) Select a sample list of employees and obtain signed policy acknowledgment forms. Identify all policies related to PCI DSS requirements and determine when they were updated.		
	ITG16 Competent and motivated business and IT personnel	Percent of staff whose IT-related skills are sufficient for the competency required for their role Percent of staff satisfied with their IT-related roles Number of learning/training hours per staff member	100 percent of employees hired within the last three months have received information security and PCI DSS compliance awareness training. 100 percent of staff supporting PCI DSS compliance have successfully achieved their training goals.	Request a list of employees hired within the last three months and validate their participation in information security and PCI DSS compliance awareness training. Review employee performance reports and determine if training goals are properly established by management. Contact HR and request training statistics that demonstrate management's commitment to provide training opportunities.		

		IS Audit and Assurance Prog	ram—P	CI DSS Compliance Program								
	Phase B	—Understand Enablers, Set Suitable	e Asses	sment Criteria and Perform the Assessment								
Principle	s, Policies and Frameworks											
Ref.		Assurance Steps and Gui			Issue Cross-reference	Comments						
B-2	Obtain an understanding of the Principles , F Assess Principles, Policies and Frameworks.		d set su	itable assessment criteria.								
Principle	s, policies and frameworks: Enterprise gov	vernance principles										
B-2.1a	<u>Understand</u> the Principles , Policies and Francisco Obtain and understanding of the overall syst	ameworks context. em of internal control and the associate	ed Princi	iples, Policies and Frameworks								
B-2.2a	Understand the stakeholders in the policies. compliance with the policies.											
B-2.3a	Assess whether the Principles , Policies and Policies and Frameworks .											
	Goal: The organization has defined, dissempolicies supporting enterprise governance	principles.		n the assurance steps using the example criteria bed below.								
	Goal	Criteria		Assessment Step								
	Comprehensiveness	The set of policies is comprehensive coverage.		Verify that the set of policies is comprehensive in its coverage.								
	Currency	The set of policies is up to date. This least requires: • A regular validation of all policies whether they are still up to date • An indication of the policies' expiradate or date of last update		Verify that the set of policies is up to date. This at least requires: A regular validation of all policies whether they are still up to date An indication of the policies' expiration date or date of last update								
	Flexibility	The set of policies is flexible. It is structured in such a way that it is eas add or update policies as circumstan require.		Verify the flexibility of the set of policies, i.e., that it is structured in such a way that it is easy to add or update policies as circumstances require.								
	Availability	 Policies are available to all stakeholders. Policies are easy to navigate and l logical and hierarchical structure. 		 Verify that policies are available to all stakeholders. Verify that policies are easy to navigate and have a logical and hierarchical structure. 								
B-2.4a	of process APO01 Manage the IT manageme	es and Frameworks life cycle is mana naged by the Process APO01. The revient framework.	aged. iew of th	nis life cycle is therefore equivalent to a process review								
B-2.5a	<u>Understand</u> good practices related to the Pri Frameworks design, i.e., assess the extent to The assurance professional will, by using ap	which expected good practices are a	pplied.	cted values. Assess the Principles, Policies and ving aspects.								
	Good Practice											
	Scope and validity	The scope is described and the valid date is indicated.	ity	Verify that the scope of the framework is described and the validity date is indicated.								
	Exception and escalation	 The exception and escalation procedure is explained and com known. The exception and escalation procedure has not become the or 	·	 Verify that the exception and escalation procedure is described, explained and commonly known. Through observation of a representative sample, verify that the exception and escalation 								

		IS Audit and Assurance Program—P	CI DSS Compliance Program		
		—Understand Enablers, Set Suitable Asses	sment Criteria and Perform the Assessment		
Principle	es, Policies and Frameworks				
Ref.		Issue Cross-reference	Comments		
		facto standard procedure.	procedure has not become <i>de facto</i> standard procedure.		
	Compliance	The compliance checking mechanism and noncompliance consequences are clearly described and enforced.	Verify that the compliance checking mechanism and noncompliance consequences are clearly described and enforced.		
B-2.1 to B- 2.5			in scope.		
	Legal and regulatory compliance require				

		IS Audit and Assura	nce Program—PCI DSS Compliance	e Program		
		B—Understand Enablers, Set Su	itable Assessment Criteria and Per	form the Assessment		
Processe Ref.	98	Assurance Step	s and Guidance		Issue Cross-reference	Comments
B-3			sment criteria: for each process in sco	ope (as determined in step A-3.2),		
PCI DSS	Compliance Program ¹ : Developme	nt and Maintenance of a Program t	o Comply With the Standards Fram	ework		
B-3.1a	<u>Understand</u> the Process context .					
B-3.2a	<u>Understand</u> the Process purpose .					
B-3.3a	Understand all process stakeholde Leverage the COBIT 5 RACI charts assessment. In this assurance step The stakeholders of the process are relies also on the following functions Development and Maintenance of	need to be involved in the real enterprise. hose stakeholders, this process				
B-3.4a	<u>Understand</u> the Process goals and achieved, i.e., assess the <u>effectiven</u>	related metrics ² and <u>define</u> expected ess of the process.	d Process values (criteria), and assess	-		
	The Process Development and Ma Comply With the Standards Fram goals.		The following activities can be performed are achieved.	ormed to assess whether the goals		
	Process Goal	Related Metrics	Criteria/Expected Value	Assessment Step		
	The organization must include compliance with PCI DSS into the business strategy to set the toneat-the-top.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place. Agree on the expected values for	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	The board of directors and executive team must be accountable for the implementation and maintenance of a compliance program to meet PCI DSS requirements.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.				
	The organization must create and maintain a compliance program to meet PCI DSS requirements.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		

¹ The scope of this audit/assurance program is to evaluate the effectiveness of an enterprise PCI DSS compliance program; therefore, the assurance steps have been developed in line with PCI DSS terminology. The testing steps have been mapped to COBIT 5 processes to provide a reference where additional metrics and testing techniques can be found.

Assurance steps associated with the COBIT 5 processes identified in step A-3.2 have been omitted. Audit/assurance programs for these processes can be found on the ISACA web site at www.isaca.org/Knowledge-Center/Research/Pages/Audit-Assurance-Programs.aspx and can be included in this audit/assurance program depending on the necessity to include them and on resources available.

² For COBIT 5 processes, a set of goals and metrics are identified in *COBIT 5: Enabling Processes*.

		IS Audit and Assura	nce Program—PCI DSS Compliance	e Program		
		B—Understand Enablers, Set Su	itable Assessment Criteria and Per	form the Assessment		
Processe	s 	Assurance Step	o and Cuidence		Issue Cross-reference	Comments
Ref.	The PCI DSS Compliance Program should include a set of policies that guide employee behavior and performance to ensure that security is part of business as usual.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.	Cross-reference	Comments
	The PCI DSS Compliance Program should include continuous security training awareness plans to ensure that all employees understand the importance of maintaining a secure environment to protect cardholder data.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	The PCI DSS Compliance Program must include plans to hire third-party assessors to evaluate the control environment and help the organization identify gaps and level of compliance.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	The PCI DSS Compliance Program must be updated at a minimum every year or every time there is a major change in the organization's operations, the IT infrastructure, the PCI DSS requirements or the external environment.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	The organization must hire and retain employees qualified to implement and maintain the necessary controls to meet PCI DSS compliance.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	Service providers must be contractually obligated to comply with security requirements necessary to meet compliance.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	Service provider collaboration is recognized as a key success factor and the organization has established policies and procedures to select suppliers and manage the supplier relationship and risk.	Determine the metrics that can be used to assess the achievement of the Process goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	Service provider compliance is assessed periodically to ensure	Determine the metrics that can be used to assess the achievement	Agree on the expected values for the Process goal metrics, i.e., the	In this step, the related metrics for each goal will be reviewed		

			I	S Audit and Assurar	nce Program—PCI DSS Compliar	nce Program		
			B—Understa	nd Enablers, Set Su	itable Assessment Criteria and F	Perform the Assessment		
Process	es							
Ref.				Assurance Step	s and Guidance		Issue Cross-reference	Comments
	that the security not been broke	n.	of the Process	assessment will take place. made whether the defined criteria are achieved.		criteria are achieved.		
B-3.5a	determine which identified, unless the profession of the professio	h base practices a p ss there is reason for	rocess should at a using a different should be in places to what exist applied. y are assigned a din COBIT 5: requires a be process see are: ne process will ne criteria as nt practices	least include. (This use reference process.) ce (process design). tent: nd assumed. Each practice is type		COBIT 5 processes already Deer of activities, and a well-designed		
	Reference Process Practices ⁴	Good Pr	actice	Assessment Step			Issue Cross- reference	Comments
	Fractices4 EDM01 The organization must include compliance with PCI DSS into the business strategy to set the tone-at-the-top. • Obtain a copy of the enterprise mission and vision statements and determine if protection of cardholder data is a key goal and part of business as usual. • Interview stakeholders and assess their level of satisfaction with management's commitment to comply with PCI DSS requirements. • Determine if the enterprise has experienced security breaches and what actions have taken place to correct the root cause.		t of business as usual. tisfaction with management's s. ity breaches and what actions have					
	EDM01	The board of direct executive team maccountable for the implementation are of a compliance per PCI DSS requirem	ust be e nd maintenance rogram to meet	Determine the processes and	level of participation the board has technologies that are part of the PC	while making decisions that impact CI DSS scope.		
	EDM01 EDM03 MEA03	The organization rand maintain a coprogram to meet Frequirements.	mpliance	and maintain coIdentify the main program.	e enterprise has developed and impompliance with PCI DSS. in stakeholders of the program and mowners and assess the group usi	assess their satisfaction with the		

³ For this audit/assurance program, COBIT 5 processes and their related activities are out of scope. Step B-3.5 describes the good practices and assurance steps for the PCI DSS Compliance Program.

⁴ This section lists COBIT 5 activities supporting the assurance steps for the PCI DSS Compliance Program audit/assurance program.

		IS	S Audit and Assurance Program—PCI DSS Compliance Program		
		B—Understar	nd Enablers, Set Suitable Assessment Criteria and Perform the Assessment		
Processe:	s		Assurance Steps and Guidance	Issue Cross-reference	Comments
iter.			enabler dimensions.	Gross reference	Comments
	APO01	The PCI DSS Compliance Program should include a set of policies that guide employee behavior and performance to ensure that security is part of business as usual.	 Obtain copies of all policies that provide guidance for the processes part of the PCI DSS scope. Determine how employee acknowledgment is obtained and archived Inquire about the number of exceptions granted and the reason for granting them. Inquire how often these policies are refreshed and published. Assess accessibility to policies and policy owners for clarification. 		
	APO07 BAI08	The PCI DSS Compliance Program should include continuous security training awareness plans to ensure that all employees understand the importance of maintaining a secure environment to protect cardholder data.	 Determine training frequency and find out the date of the last training. Determine how employee acknowledgment is obtained and archived Select a sample list of employees and assess their understanding and satisfaction with the training provided. Determine if the enterprise has developed and published a security manual that helps employees perform their duties in accordance with PCI DSS requirements. Determine the number of security incidents caused by employee errors that could have been prevented with training. 		
	APO12 APO13 MEA03	The PCI DSS Compliance Program must include plans to hire third-party assessors to evaluate the control environment and help the organization identify gaps and level of compliance.	 Request the latest PCI DSS evaluation report. Request remediation plans for any deficiencies documented in the report. Inquiry what the frequency is of third-party assessments. 		
	EDM01	The PCI DSS Compliance Program must be update at a minimum every year or every time there is a major change in the organization's operations, the IT infrastructure, the PCI DSS requirements or the external environment.	 Determine if the enterprise has developed and documented a formal process for the maintenance of the PCI DSS Compliance program. Obtain a copy of the latest documentation and review the date when it was updated. Compare the PCI DSS Compliance program to the current PCI DSS requirements and determine if there are gaps. 		
	APO07	The organization must hire and retain employees qualified to implement and maintain the necessary controls to meet PCI DSS compliance.	Refer to section B-8 to obtain the testing techniques for COBIT 5 process APO07 Manage Human Resources		
	APO10	Service providers must be contractually obligated to comply with security requirements necessary to meet compliance.	 Obtain all service performance reports and evaluations. Interview service managers. Verify the expected values. For any supplier failing to meet the agreed requirements, verify whether this is a recurring trend. Determine the root cause of any trend, and suggest actions for improvement, or consider another supplier. 		
	APO10	Service provider collaboration is recognized as a key success factor and the organization has established policies and	 Obtain the meeting minutes from all the supplier meetings. Verify that the meetings were held on a regular basis. Verify that action points from the previous meeting have been addressed, previous period supplier performance was discussed and new action/improvement points are set 		

				IS Audit and Assura	nce Program—PCI DSS Com	pliance Prog	ram		
			B—Und	erstand Enablers, Set Su	uitable Assessment Criteria a	nd Perform	the Assessment		
Processe	es								
Ref.					s and Guidance			Issue Cross-reference	Comments
		and man relations	es to select supplier age the supplier hip and risk.						
	APO10	assesse	provider compliance d periodically to ensu security perimeter ha broken.	re resolved.	percent of the noncompliant re	equirements w	ere risk assessed and		
B-3.6a	(process desig Assess to what	n). t extent the	process work produc	ets are available.	the process practices descripti	,			
	the different ma assessed as In	anagement formation it	practices. The most tems in scope in sec	relevant of these work pro ion A-3.5) are identified as ., existence and usage.	s follows, as well as the		Il listed work products nonstrably exist and be		
	Process Pr			Work Product		1	Assessment Step		
	Compliance wi Standards Fran	mework	 Remediation pl Infrastructure d Information sec Hiring policies a Job description Employee hand 	iance policies r contracts iance assessment reports ans esigns urity policy and procedures s book	3	determine	opriate audit techniques to the existence and a use of each work product.		
B-3.7a	This step is w	arranted or applied. Any	nly if the process und other processes, fo		DBIT 5 governance or managen tices, work products or outcome				
PCI DSS				trols to Meet the Standa					
B-3.1b	Understand the					<u> </u>			
B-3.2b	Understand the								
B-3.3b	<u>Understand</u> all	process st	akeholders and thei	roles.	-		-		
2011				ndards Framework stake					
B-3.4b	achieved, i.e.,	assess the	effectiveness of the	process.	ed Process values (criteria), and				
	Framework ha	s four defin	ed process goals.	Meet the Standards	The following activities can b are achieved.				
	Proc	ess Goal		Related Metrics	Criteria/Expected Value	е	Assessment Step		

⁵ For COBIT 5 processes, a set of inputs and outputs for the different management practices are identified in *COBIT 5: Enabling Processes*. ⁶ For COBIT 5 processes, a set of goals and metrics are identified in *COBIT 5: Enabling Processes*.

			IS	S Audit and Assurar	nce Program—PCI DSS Compliance	e Program				
			B—Understa	nd Enablers, Set Su	itable Assessment Criteria and Per	form the Assessment				
Processe	es						Issue			
Ref.		Assurance Steps and Guidance								
	the level of compliance required by the PCI SSC. used to assess of the Process of the Process of the Operation of the Process of the Process of the Operation o			metrics that can be s the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.				
				metrics that can be s the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.				
	controls framework and implement the necessary controls to meet compliance with PCI DSS.			metrics that can be is the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.				
	self-assessmen year to ensure to working as intel Management m remediation pla	self-assessments at least once a year to ensure that controls are working as intended. Management must prepare remediation plans to close any gaps or weaknesses identified by		Agree on the expected values for the Process goals. Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.		In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.				
B-3.5b	Agree on suitab	ole criteria to evaluat	e all processes i	n scope of the assura	ance engagement:					
	Reference Process Practices ⁷	Good Pr	actice		Assessment Step					
	EDM01 APO01 APO12 MEA03	The organization r the level of compli by the PCI council	ance required	merchant catego	entation that describes the compliance					
	APO12 APO13	The organization r the current control and identify gaps t addressed to mee with PCI DSS requ	environment that must be t compliance	scope. • Request remedia assessments.	sessment results for processes and te ation plans for gaps identified during r nediation plans have been implement d.					
	APO13	The organization r controls framework implement the nec controls to meet of PCI DSS.	k and cessary	secure environm	entation that describes the controls fra nent that meets PCI DSS requirement is between the framework and the late	S.				

 $^{^7\,} This\, section\, lists\, COBIT\, 5\, activities\, supporting\, the\, assurance\, steps\, for\, the\, PCI\, DSS\, Compliance\, Program\, audit/assurance\, program.$

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			,		ce Program—PCI DSS Comp				
					able Assessment Criteria a				
Processe	es		D Chaoretana Enablere,	, oor our					
Ref.			Assuranc	ce Steps	and Guidance			Issue Cross-reference	Comments
	APO12 MEA01 The organization must perform self-assessments at least once a year to ensure that controls are working as intended. Management must prepare remediation plans to close any gaps or weaknesses identified by the self-assessment. Request the results from the latest self-assessment. Request the results from the latest self-assessment. Validate that remediation plans have been implemented and tested to ensure controls work as intended. Determine if self-assessments include all connections to service providers. Request the results from the latest self-assessment. Validate that remediation plans have been implemented and tested to ensure controls work as intended. Determine if self-assessments provided by third parties that store, process or transmit cardholder data.								
B-3.6b	(process design Assess to what The Process Iminputs and outp those not asses	n). extent the proces plementation of uts for the manag sed as Informatio	ducts ⁸ (inputs and outputs as des work products are available. Controls to Meet the Standard ement practices. The most relevant items in scope in section A-3.5 I be assessed, i.e., existence and	ds Framev ant of the 5) are ider	work identifies a set of se work products (and	Crite	eria: All listed work products uld demonstrably exist and be		
		ne criteria against which they will be assessed, i.e., existence and usage. Process Practice Work Products					Assessment Step		
	Implementation to Meet the Sta Framework	ndards •	PCI DSS scope documentation Controls framework Self-assessment reports Remediation plans Service provider reports Network diagrams			dete	oly appropriate audit techniques to ermine the existence and ropriate use of each work product.		
B-3.7b	This step is wa PAM can be a assessment m	arranted only if the pplied. Any other nethod; therefore,	processes, for which no reference the concept capability level does	dard COB ce practice s not apply	es, work products or outcome. y.		ocess to which the ISO/IEC 15504 approved, cannot use this		
			g Compliance With the Standa	ards Fram	nework				
B-3.1c		Process contex							
B-3.2c B-3.3c		Process purpos process stakehol	ders and their roles.						
B-3.4c			ne Standards Framework stake		d Process values (criteria), and	d asse	ss whether the Process goals are		
2 3.40	achieved, i.e.,	assess the effect	iveness of the process.		•		rmed to assess whether the goals		
	Framework has five defined process goals. are achieved.								
		ess Goal	Related Metrics		Criteria/Expected Value		Assessment Step		
	The organization and documents procedures that		Determine the metrics that of used to assess the achiever of the Process goals.	ement	Agree on the expected values the Process goal metrics, i.e. values against which the		In this step, the related metrics for each goal will be reviewed and an assessment will be		

⁸ For COBIT 5 processes, a set of inputs and outputs for the different management practices are identified in *COBIT 5: Enabling Processes*.

⁹ For COBIT 5 processes, a set of goals and metrics are identified in *COBIT 5: Enabling Processes*.

			18	S Audit and Assurar	nce Program—PCI DSS Compliance	e Program		
			B—Understa	nd Enablers, Set Su	itable Assessment Criteria and Per	form the Assessment		
Processe Ref.	es		_	Assurance Step	s and Guidance	_	Issue Cross-reference	Comments
	sustainability of environment to requirements.				assessment will take place.	made whether the defined criteria are achieved.		
	Request to change IT infrastructure components (facilities, network, hardware or software) must be reviewed by management to ensure that changes will not negatively impact the control environment. Changes in the internal and external environment must be Determine the used to assess		metrics that can be the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.			
				metrics that can be the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	New application must include pla the necessary of with PCI DSS re	ans to configure controls to comply		metrics that can be the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
	third parties to penetration test	ting in a proactive ent must prepare ns when		metrics that can be the achievement goals.	Agree on the expected values for the Process goal metrics, i.e., the values against which the assessment will take place.	In this step, the related metrics for each goal will be reviewed and an assessment will be made whether the defined criteria are achieved.		
B-3.5c	Agree on suitab	ole criteria to evaluat	e all processes in	scope of the assura	ance engagement:			
	Reference Good Practice Process Practices ¹⁰		actice		Assessment Step			
	DSS01 The organization must develop and document standards and procedures that help ensure sustainability of the control environment to meet PCI DSS requirements.			operations align • Request exception	ds and procedures that have been develowith PCI DSS requirements. Sons that have been granted and inqui	re the reason for the exception.		
	BAI06	Request to change infrastructure com			management policies and procedures and testing is performed to ensure th			

 $^{^{10}}$ This section lists COBIT 5 activities supporting the assurance steps for the PCI DSS Compliance Program audit/assurance program.

			S Audit and Assurance Program—PCI DSS Cor	1 9		
		B—Understa	nd Enablers, Set Suitable Assessment Criteria	and Perform the Assessment		
Processe	es				Issue	
Ref.		(facilities, network, hardware or	Assurance Steps and Guidance requirements are not weakened or disabled.		Cross-reference	Comments
		software) must be reviewed by management to ensure that changes will not negatively impact the control environment.	Request a sample of change request forms a management policies and procedures. Reque	est testing results when possible.		
		Changes in the internal and external environment must be reviewed by management to determine the potential impact to the control environment. Management must prepare remediation plans to address any negative impact resulting from changes.	 Review organizational change policies and prof approval and assessment is performed to exweakened. Inquire about the latest organizational change DSS compliance was properly assessed and 	ensure that the controls environment is not eand determine if potential impact on PCI		
	BAI02 BAI03	New application development must include plans to procure/configure the necessary controls to comply with PCI DSS requirements.	 Review software development policies and prare part of the business requirements. Request test results that demonstrate that se to software being promoted to the production Review third-party contracts and service level security controls are included in the enterprise and maintenance. 			
	APO12 APO13	The organization should engage third parties to perform penetration testing in a proactive way. Management must prepare remediation plans when penetration testing identifies weaknesses.	 Review policies and procedures for conducting penetration testing. Request the results of the latest test. Review remediation plans to address any weaknesses identified during the penetration testing. Inquire if a test is conducted after weaknesses are addressed to evaluate improvement. Inquire about the frequency of penetration testing. Determine if the enterprise has a rotation plan to use different service providers to 			
B-3.6c	(process design		conduct penetration testing or if the same ent outputs as defined in the process practices descr re available.			
	The Process Su and outputs for those not asses	ustaining Compliance With the Sta the different management practices.	ndards Framework identifies a set of inputs The most relevant of these work products (and section A-3.5) are identified as follows, as well	Criteria: All listed work products should demonstrably exist and be used.		
	Process Pra	actice	Work Products	Assessment Step		
	Sustaining Con With the Standa Framework	Change request forms Process exception for Organizational change	ms e risk assessments t policies and procedures	Apply appropriate audit techniques to determine the existence and appropriate use of each work product.		

¹¹ For COBIT 5 processes, a set of inputs and outputs for the different management practices are identified in *COBIT 5: Enabling Processes*.

	IS Audit and Assurance Program—PCI DSS Compliance Program									
	B—Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment									
Processe	S									
Ref.	Assurance Steps and Guidance	Issue Cross-reference	Comments							
	Penetration testing resultsRemediation plans									
B-3.7c	Agree on the process capability level to be achieved by the process.									
	This step is warranted only if the process under review is a standard COBIT 5 governance or management process to which the ISO/IEC 15504 PAM can be applied. Any other processes, for which no reference practices, work products or outcomes are approved, cannot use this assessment method; therefore, the concept capability level does not apply.									

		IS Audit and Assura	nce Program—PCI DSS	Compliance Program		
	Phase B —U			Criteria and Perform the Assessment		
Organiza	tional Structures	,				
Ref.		Assurance Step			Issue Cross-reference	Comments
B-4	Obtain understanding of each Organizational S For each Organizational Structure in scope (addefined. Assess the Organizational Structure .					
Organiza	tional Structure: Board of Directors					
B-4.1a	Understand the Organizational Structure context. Identify and document all elements that can help to understand the context in which the board of directors organization has to operate, including: The overall organization Management/process framework History of the role/structure Contribution of the Organizational Structure to achievement of goals					
B-4.2a	Understand all stakeholders of the Organizational Structure/function. Determine through documentation review (policies, management communications, etc.) the key stakeholders of the board of directors organization. Incumbent of the role and/or members of the Organizational Structure Other key stakeholders affected by the decisions of the Organizational Structure/role					
B-4.3a	<u>Understand</u> the goals of the Organizational Structure , the related metrics and agree on expected values. Understand how these goals contribute to the achievement of the enterprise goals and IT-related goals.					
	Organizational Structure G			Assessment Step		
	Determine through interviews with key stakehold documentation review the goals of the board of decisions for which they are accountable. ^{12,1}	directors, i.e., the	 assurance professiona Identify the decisi Assess whether deciminated. Evaluate the deciminated. They have deand enterpring and enterpring assurance professional 	f specific goals are defined. In that case, the I will use appropriate auditing techniques to: ons made by the Organizational Structure. I decisions are appropriately documented and sions by assessing whether: contributed to the achievement of the IT-related ise goals as anticipated. The reduly executed on a timely basis.		
B-4.4a	Agree on the expected good practices for the Organizational Structure design, i					
	Good Practice	Crit	teria	Assessment Step		
	Operating principles	 Operating principles are documented. Regular meetings take place as defined in operating principles. Meeting reports/minutes are available and are meaningful. 		 Verify whether operating principles are appropriately documented. Verify that regular meetings take place as defined in the operating principles. Verify that meeting reports/minutes are available and are meaningful. 		
	Composition	The board of directors' balanced and complete		Assess whether the board of directors' composition is balanced and complete, i.e.,		

¹² The RACI charts in *COBIT 5: Enabling Processes* can be leveraged as a starting point for the expected goals of a role or Organizational Structure.

¹³ The Organizational Structure/role as described may not exist under the same name in the enterprise; in that case, the closest Organizational Structure assuming the same responsibilities and accountability should be considered.

	Phase B —Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment Organizational Structures						
Organizat							
Ref.		Assurance Steps and Guidance			Comments		
		stakeholders are sufficiently represented.	all required stakeholders are sufficiently represented.				
	Span of control Level of authority/decision rights	 The span of control of the board of directors is defined. The span of control is adequate, i.e., the board of directors has the right to make all decisions it should. The span of control is in line with the overall enterprise governance arrangements. Decision rights of the board of directors are defined and documented. Decision rights of the board of directors 	Verify whether the span of control of the board of directors is defined. Assess whether the span of control is adequate, i.e., the board of directors has the right to make all decisions it should. Verify and assess whether the span of control is in line with the overall enterprise governance arrangements. Verify that decision rights of the board of directors are defined and documented.				
	Delegation of authority	are respected and complied with (also a culture/behavior issue). Delegation of authority is implemented in a	Verify whether decision rights of the board of directors are complied with and respected. Verify whether delegation of authority is				
	Escalation procedures	meaningful way. Escalation procedures are defined and	implemented in a meaningful way. Verify the existence and application of				
B-4.5a	<u>Understand</u> the life cycle and agree on expected	applied.	escalation procedures.				
2	Assess the extent to which the Organizational	Structure life cycle is managed.					
	Life Cycle Element	Criteria	Assessment Step				
	Mandate	 The board of directors is formally established. The board of directors has a clear, documented and well-understood mandate. 	 Verify through interviews and observations that the board of directors is formally established. Verify through interviews and observations that the board of directors has a clear, documented and well-understood mandate. 				
	Monitoring	 The performance of the board of directors and its members should be regularly monitored and evaluated by competent and independent assessors. The regular evaluations should result in the required continuous improvements to the board of directors, either in its composition, mandate or any other parameter. 	 Verify whether the performance of the board of directors and its members is regularly monitored and evaluated by competent and independent assessors. Verify whether the regular evaluations have resulted in improvements to the board of directors, in its composition, mandate or any other parameter. 				
B-4.1 to B-4.5	Repeat steps B-4.1 through B-4.5 for all remaini Repeat the steps described above for the remain Chief financial officer (CFO) Chief information officer (CIO) Chief information security officer (CISO)						

	IS Audit and Assurance Program—PCI DSS Compliance Program								
	Phase B —Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment								
Organizat	ional Structures								
Ref.	Assurance Steps and Guidance	Issue Cross-reference	Comments						
	 Sales organization Risk management Internal audit/compliance Human resources 								

		IS Audit and Assura	nce Program—PCI DSS	Compliance Program		
	Phase B—III	nderstand Enablers Se	t Suitable Assessment	Criteria and Perform the Assessment		
Culture. E	Ethics and Behavior	iderstaria Eriabiers, de	t Outlable Assessment	oriteria ana i erioriii the Assessment		
Ref.	Ref. Assurance Step and Guidance					Comments
B-5	Obtain understanding of the Culture, Ethics an	d Behavior in scope.				
	Assess Culture, Ethics and Behavior.					
	thics and Behavior: Risk- and compliance-aw					
B-5.1a	Understand the Culture, Ethics and Behavior	context.				
	What the overall corporate Culture is like	and the sector of the sector of				
	Understand the interconnection with other e Identify roles and structures that could		70			
	 Identify Processes that could be affected 			processes in scope of the review.		
B-5.2a	Understand the major stakeholders of the Cult					
	Understand to whom the behavior requirements	will apply, i.e., understan	nd who embodies the role	es/structures expected to demonstrate the		
	correct set of Behaviors. This is usually linked to	the roles and Organizati	ional Structures identified	l in scope.		
B-5.3a	Understand the goals for the Culture, Ethics are					
	Assess whether the Culture, Ethics and Behavior goals (outcomes) are achieved, i.e., assess the effectiveness of the Culture, Ethics and					
	Behavior.					
	In the context of risk- and compliance-aware c Culture, Ethics and Behavior are desired:	ulture, the following		Behaviors are associated to individuals and the res of which they are a part; therefore, by using		
	Culture, Ethics and Benavior are desired.			chniques, the assurance professional will:		
				s who must comply with the Behaviors under		
			review.	s who must comply with the behaviors under		
				izational Structures involved.		
				esired Behaviors can be observed.		
			 Assess whether u 	ndesirable Behaviors are absent.		
			For a representative sample of individuals, perform the following			
	Desired Behavior (Orderes Ethios and	Dalamian Oaal\	assessment steps.			
	Desired Behavior (Culture, Ethics and			Assessment Step		
	The enterprise is aware of the compliance requi					
	Employees understand their role in maintaining	compliance.				
	Identified risk is properly addressed.					
	Controls are in place to ensure compliance with requirements.					
B-5.4a	<u>Understand</u> the life cycle stages of the Culture , Assess to what extent the Culture, Ethics and Bo	ehavior life cycle is mana	iged.			
	(This aspect is already covered by the assessme					
B-5.5a	Understand good practice when dealing with Cu Assess the Culture, Ethics and Behavior design,					
	Good Practice	Crit	teria	Assessment Step		
	Communication, enforcement and rules	Existence and quality of	of the communication	Apply appropriate auditing techniques to		
				assess whether the good practice is		
				adequately applied, i.e., assessment criteria		
		F	. ,	are met.		
	Incentives and rewards	Existence and applicati rewards and incentives		Apply appropriate auditing techniques to		
		rewards and incentives		assess whether the good practice is adequately applied, i.e., assessment criteria		
				are met.		

	IS Audit and Assurance Program—PCI DSS Compliance Program									
	Phase B—Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment									
Culture, E	Ethics and Behavior									
Ref.	Ref. Assurance Step and Guidance			Issue Cross-reference	Comments					
	Awareness	Awareness of desired Behaviors	Apply appropriate auditing techniques to assess whether the good practice is adequately applied, i.e., assessment criteria are met.							
	Repeat steps B-5.1 through B-5.5 for all remaining									
B-5.1 to B-5.5	Repeat the steps described above for the remai Accountability Enterprisewide security awareness Customer data protection is part of the enterpy Management proactively monitors risk and account of the steps of the security awareness.									

		IS Audit and Assura	nce Program—PC	I DSS Compliance	e Program		
	P	hase B—Understand Enablers, Se					
Information							
Ref.						Issue Cross-reference	Comments
B-6	Obtain understanding of the Informa Assess Information Items.	ation Items in scope.					
Information	on Item: Third-party assessment re	sults					
B-6.1a	Understand the Information item co Where and when is it used? For what purpose is it used? Understand the connection with Used by which processes: Which Organizational Stru	ntext: n other enablers in scope, e.g.: ctures are involved?					
B-6.2a	Which services/application Understand the major stakeholders Understand the stakeholders for the Information producer Information custodian Information consumer Stakeholders should be at the appro	s of the Information item. Information item, i.e., identify the:					
B-6.3a	Understand the major quality criteria Assess whether the Information ite Leverage the COBIT 5 Information of description to select the most relevant	in for the Information item, the related im quality criteria (outcomes) are ac enabler model 14 focusing on the quali- int Information quality criteria for the I garding information criteria. The COB	chieved, i.e., asses ity goals Information item	The assurance p appropriate audit			
	enabler model identifies 15 different nonetheless possible and recomme criteria for the Information item at ha	quality criteria—although all of them nded to focus on a subset of the mos and. 'that are deemed most important (k	are relevant, it is t important	are met.	and assess whether the offena		
	Quality Dimension	Key Criteria	Dosc	ription	Assessment Step		
	Accuracy	Key Criteria ✓	Desc	праоп	Assessment step		
	Objectivity	•					
	Believability						
	Reputation	✓					
	Relevancy	<u> </u>	 			†	
	Completeness	✓	İ				
	Currency	✓					
	Amount of information	✓					
	Concise representation	✓					
	Consistent representation						
	Interpretability						
	Understandability	✓					
	Manipulation						
	Availability	✓		·			

¹⁴ COBIT 5 framework, appendix G, p.81-84

		10 A distribution		<u>, </u>		
			nce Program—PCI DSS Complian			
		Phase B—Understand Enablers, Se	t Suitable Assessment Criteria an	d Perform the Assessment		
Information	on Items					
Ref.		Issue Cross-reference	Comments			
	Restricted access					
B-6.4a	<u>Understand</u> the life cycle stages of <u>Assess</u> to what extent the Informat	the Information item, and agree on thion item life cycle is managed.	ne relevant criteria.			
	 a review of (IT-related) processes s When the Information item is i When the Information item als assessed. 	m is managed through several busines to this aspect does not need to be du nternal to IT, the process review will h o involves other stakeholders outside that are deemed most important (key	plicated here. have covered the life cycle aspects solve IT or other non-IT processes, some	sufficiently. e of the life cycle aspects need to be		
	criteria.	that are decirred most important (no)	y chienay, and by concequence will be	oo addoodda agamor mo addombda		
	Life Cycle Stage	Key Criteria	Description	Assessment Step		
	Plan	✓	·			
	Design	✓				
	Build/acquire	✓				
	Use/operate	✓				
	Evaluate/monitor	✓				
	Update/dispose	✓				
B-6.5a	Understand important attributes of t					
	Assess the Information item design					
		s are defined as a series of attributes		surance professional will, by using		
	appropriate audit techniques, verify	all attributes in scope and assess wh	ether the attributes are adequately of	defined.		
		e deemed most important (key criteria				
	Attribute	Key Criteria	Description	Assessment Step		
	Physical					
	Empirical					
	Syntactic					
	Semantic					
	Pragmatic	✓				
	Social					
	Repeat steps B-6.1 through B-6.5 fo	or all remaining Information items in	scope.			
	Repeat the steps described above f	or the remaining Information items:				
	 PCI DSS compliance certification 	1				
	Supplier contracts					
B-6.1 to	 IT architecture designs 					
B-6.5	 Network diagrams 					
3 3.3	Risk analysis results					
	Penetration testing results					
	Audit reports					
	SOC 2 or equivalent reports					
	 Change management procedures 					

¹⁵ COBIT 5 framework, appendix G, p. 81-84

	IS Audit and Assurance Program—PCI DSS Compliance Program								
	Phase B—Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment								
Information	on Items								
Ref.	Assurance Steps and Guidance	Issue Cross-reference	Comments						
	 Configuration management procedures Vendor management procedures PCI DSS compliance self-assessment results 								

		IS Audit and Assurance Program—PCI DSS	Compliance Program		
	Phase R. Hi	nderstand Enablers, Set Suitable Assessment	Critoria and Perform the Assessment		
Services.	Infrastructure and Applications	iluei staliu Eliabiei s, Set Sultable Assessillelit	Citteria and Ferioriii the Assessment		
Ref.			Issue Cross-reference	Comments	
B-7	Obtain understanding of the Services , Infrastru Assess Services, Infrastructure and Applications				
Services,	Infrastructure and Applications: Enterprise ar	nd IT Governance			
B-7.1a	the significance of this Service, Infrastructure ar	of context of this service. Refer to step A-2.2 and And Application.	1-2.3 and re-use that information to understand		
B-7.2a	organizational roles but could also link to Proce	of the service, i.e., the sponsor, provider and user sses.			
B-7.3a		nfrastructure and Applications, the related metral Applications goals (outcomes) are achieved, i.e.,			
	Goal	Criteria	Assessment Step		
	Service description	 The Service is clearly described. Roles and responsibilities are clearly defined. The Service is available to all potential stakeholders. 	 Verify that the Service exists and is clearly described. Verify that roles and responsibilities are clearly defined. Assess the quality of the Service description and of the Service offered. Verify the accessibility of the Service to all potential stakeholders. 		
	Service level definition	Service levels are defined for : Quality of the service deliverables Ease to request the service Timeliness	Verify that the following aspects are dealt with in the Service level definitions: Quality of the Service deliverables Ease to request the service Timeliness Verify to what extent Service levels are achieved.		
	Contribution to related enablers, IT-related and enterprise goals	The Service contributes to the achievement of related enabler and IT-related and enterprise goals.	Assess to what extent the Service contributes to the achievement of the related enabler goals and to the overall IT-related and enterprise goals.		
B-7.4a	Understand good practice related to the Service Assess the Services, Infrastructure and Appli Leverage the description of Services, Infrastructure Infrastructure And Applications. In general the feet Buy/build decision needs to be taken. Use of the Service needs to be clear.				
	Good Practice	Criteria	Assessment Step		
	Sourcing (buy/build)	A formal decision—based on a business case—needs to be taken regarding the	Verify that a formal decision—based on a business case—was taken regarding		

¹⁶ COBIT 5 framework, appendix G, p.85-86

	·	IS Audit and Assurance Program—PCI DSS	Compliance Program				
	Phase B—Ur						
	Services, Infrastructure and Applications						
Ref.		Assurance Steps and Guidance		Issue Cross-reference	Comments		
		sourcing of the Service.	 the sourcing of the Service. Verify the validity and quality of the business case. Verify that the sourcing decision has been duly executed. 				
	Use	The use of the Service needs to be clear: When it needs to be used and by whom The required compliance levels with the Service's output	 Verify that the use of the Service is clear, i.e., it is known when and by whom the service needs to be used. Verify that actual use is in line with requirement above. Verify that the actual Service output is adequately used. Verify that Service levels are monitored and achieved. 				
B-7.1 to B-7.4	and achieved. Repeat steps B-7.1 through B-7.4 for all remaining Services, Infrastructure and Applications in scope. Repeat the steps described above for the remaining Services, Infrastructure and Applications: Change management services and tools Configuration management services and tools Data centers Software development services Network operations						

			IS Audit and Assurance Prog		1 5		
		Dhana B			<u> </u>		
People S	kills and Competencies	Phase B	—Understand Enablers, Set Sultable	Assessment	Criteria and Perform the Assessment		
Ref.	kins and competencies	Assurance Steps and Guidance			Issue Cross-reference	Comments	
B-8			and Competencies in scope.				
	Assess People, Skills ar						
	kill and Competency: Le						
B-8.1a	Understand the People, Skills and Competencies context. Understand the context of the Skill/Competency, i.e.,: Where and when is it used? For what purpose is it used? Understand the connection with other enablers in scope, e.g.: In which roles and structures is the Skill/Competency used? (See also B-4.1.)						
	Which behaviors are ass			4.1.)			
B-8.2a	Understand the major st	akeholders for the	People, Skills and Competencies.				
	Identify to whom in the o						
B-8.3a	Assess whether the Peo Competencies.	ple, Skills and Co	, Skills and Competencies, the relate mpetencies goals (outcomes) are ach Leadership, the following goals and as	ieved, i.e., ass	ess the effectiveness of the People, Skills and		
	Goal		Criteria		Assessment Step		
	Experience				Apply appropriate auditing techniques to		
	Education			assess whether the People, Skills and			
	Qualification			Competencies goals are adequately			
	Knowledge				achieved, i.e., that assessment criteria are		
	Technical skills				met.		
	Behavioral skills						
	Number of people with a level	ppropriate skill					
B-8.4a			ople, Skills and Competencies, and a Competencies life cycle is managed.	agree the releva	nnt criteria.		
	associated criteria can b		hand, the life cycle phases and stion of the process APO07.		•		
	Life Cycle Element		Criteria		Assessment Step		
	Plan	currently available and external reso process goals.) is	O3 activity 1 (Define the required and e skills and competencies of internal urces to achieve enterprise, IT and implemented in relation to this skill.	Assess whether practice APO07.03 activity 1 is implemented in relation to this skill. Assess whether practice APO07.03 activity 2 is implemented in relation to this skill.			
	Design	planning and prof competency deve advancement and individuals.) is im	O3 activity 2 (Provide formal career essional development to encourage elopment, opportunities for personal direduced dependence on key plemented in relation to this skill.				
		knowledge reposi	33 activity 3 (Provide access to tories to support the development of encies.) is implemented in relation to		ner practice APO07.03 activity 3 is in relation to this skill.		

IS Audit and Assurance Program—PCI DSS Compliance Program										
Phase B—Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment										
People, Skills and Competencies										
Ref.		Assurance Steps and Guidance			Issue Cross-reference	Comments				
	Build	Practice APO07.03 activity 4 (Identify gaps between required and available skills and develop action plans to address them on an individual and collective basis, such as training [technical and behavioral skills], recruitment, redeployment and changed sourcing strategies.) is implemented in relation to this skill.		Assess wheth	ner practice APO07.03 activity 4 is in relation to this skill.					
	Operate	training programs bas process requirements enterprise knowledge	ctivity 5 (Develop and deliver sed on organizational and , including requirements for , internal control, ethical conduct emented in relation to this skill.		ner practice APO07.03 activity 5 is in relation to this skill.					
Evaluate		Practice APO07.03 activity 6 (Conduct regular reviews to assess the evolution of the skills and competencies of the internal and external resources. Review succession planning.) is implemented in relation to this skill.		Assess whether practice APO07.03 activity 6 is implemented in relation to this skill.						
	Update/dispose	materials and progran adequacy with respect requirements and their	ctivity 7 (Review training ns on a regular basis to ensure et to changing enterprise ir impact on necessary abilities.) is implemented in		ner practice APO07.03 activity 7 is in relation to this skill.					
B-8.5a	Understand good practice related to the People, Skills and Competencies and expected values. Assess the People, Skills and Competencies design, i.e., assess to what extent expected good practices are applied.									
	Good Practice		Assessment Step		аспось ате аррпса.					
	Skill set and Competencies are defined.		Determine that an inventory of Skills and Competencies is maintained by organizational unit, job function and individual. Evaluate the relevance and the contribution of the Skills and Competencies to the achievement of the goals of the Organizational Structure, and by consequence, IT-related goals and enterprise goals. Evaluate the gap analysis between necessary portfolio of Skills and Competencies and current inventory of skills and capabilities.							
	Skill levels are defined.		 Assess the flexibility and performance of meeting Skills development to address identified gaps between necessary and current Skill levels. Assess the process for 360-degree performance evaluations. 							
B-8.1 to B-8.5										

IS Audit and Assurance Program—PCI DSS Compliance Program									
	Phase B—Understand Enablers, Set Suitable Assessment Criteria and Perform the Assessment								
People, Skills and Competencies									
Ref.	Assurance Steps and Guidance	Issue Cross-reference	Comments						
	 Enterprise governance Risk management proficiency Customer service excellence Security awareness training PCI DSS framework, best practices and ancillary documentation proficiency Information security testing and assessment Information security experience Network management experience Change management experience Development and implementation of compliance frameworks experience 								

	IS Audit and Assurance Program—PCI DSS Compliance Program					
Phase C—Communicate the Results of the Assessment						
Ref.	Assurance Step	Guidance				
C-1	Document exceptions and gaps.					
C-1.1	Understand and document weaknesses and their impact on the achievement of enabler goals.	 Illustrate the impact of enabler failures or weaknesses with numbers and scenarios of errors, inefficiencies and misuse. Clarify vulnerabilities, threats and missed opportunities that are likely to occur if enablers do not perform effectively. 				
C-1.2	Understand and document weaknesses and their impact on enterprise goals.	 Illustrate what the weaknesses would affect (e.g., business goals and objectives, enterprise architecture elements, capabilities, resources). Relate the impact of not achieving the enabler goals to actual cases in the same industry and leverage industry benchmarks. Document the impact of actual enabler weaknesses in terms of bottom-line impact, integrity of financial reporting, hours lost in staff time, loss of sales, ability to manage and react to the market, customer and shareholder requirements, etc. Point out the consequence of noncompliance with regulatory requirements and contractual agreements. Measure the actual impact of disruptions and outages on business processes and objectives, and on customers (e.g., number, effort, downtime, customer satisfaction, and cost). 				
C-2	Communicate the work performed and findings.					
C-2.1	Communicate the work performed.	Communicate regularly to the stakeholders identified in A-1 on progress of the work performed.				
C-2.2	Communicate preliminary findings to the assurance engagement stakeholders defined in A-1.	 Document the impact (i.e., customer and financial impact) of errors that could have been caught by effective enablers. Measure and document the impact of rework (e.g., ratio of rework to normal work) as an efficiency measure affected by enabler weaknesses. Measure the actual business benefits and illustrate cost savings of effective enablers after the fact. Use benchmarking and survey results to compare the enterprise's performance with others. Use extensive graphics to illustrate the issues. Inform the person responsible for the assurance activity about the preliminary findings and verify his/her correct understanding of those findings. 				
C-2.3	Deliver a report (aligned with the terms of reference, scope and agreed-on reporting standards) that supports the results of the initiative and enables a clear focus on key issues and important actions.	, v				