

**Table 3.1 Testing Technique Categories**

<i>Technique</i>	<i>Manual</i>	<i>Automated</i>	<i>Static</i>	<i>Dynamic</i>	<i>Functional</i>	<i>Structural</i>
Acceptance testing	x	x		x	x	
Ad hoc testing	x				x	
Alpha testing	x			x	x	
Basis path testing		x		x		x
Beta testing	x			x	x	
Black-box testing		x		x	x	
Bottom-up testing		x		x		x
Boundary value testing		x		x	x	
Branch coverage testing		x		x		x
Branch/condition coverage		x		x		x
Cause-effect graphing		x		x	x	
Comparison testing	x	x		x	x	x
Compatibility testing	x	x				x
Condition coverage testing		x		x		x
CRUD (create, read, update, and delete) testing		x		x	x	
Database testing		x		x		x
Decision tables		x		x	x	
Desk checking	x			x		x
End-to-end testing	x	x			x	
Equivalence partitioning		x		x		
Exception testing		x		x	x	
Exploratory testing	x			x	x	
Free-form testing		x		x	x	
Gray-box testing		x		x	x	x
Histograms	x				x	
Incremental integration testing	x	x		x	x	
Inspections	x		x		x	x
Integration testing	x	x		x	x	
JADs (joint application designs)	x				x	x
Load testing	x	x		x		x
Mutation testing	x	x		x	x	

*Continued*

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<i>Technique</i>	<i>Manual</i>	<i>Automated</i>	<i>Static</i>	<i>Dynamic</i>	<i>Functional</i>	<i>Structural</i>
Orthogonal array testing	x		x		x	
Pareto analysis	x				x	
Performance testing	x	x		x	x	x
Positive and negative testing		x		x	x	
Prior defect history testing	x		x		x	
Prototyping		x		x	x	
Random testing		x		x	x	
Range testing		x		x	x	
Recovery testing	x	x		x		x
Regression testing				x	x	
Risk-based testing	x		x		x	
Run charts	x		x		x	
Sandwich testing		x		x		x
Sanity testing	x	x		x	x	
Security testing	x	x				x
State transition testing		x		x	x	
Statement coverage testing		x		x		x
Statistical profile testing	x		x		x	
Stress testing	x	x		x		
Structured walkthroughs	x			x	x	x
Syntax testing		x	x	x	x	
System testing	x	x		x	x	
Table testing		x		x		x
Thread testing		x		x		x
Top-down testing		x		x	x	x
Unit testing	x	x	x			x
Usability testing	x	x		x	x	
User acceptance testing	x	x		x	x	
White-box testing		x		x		x