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survey title:
Test-Driven Development (TDD) Survey 2008 Edit Title | design survey | collect responses | analyze results

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Response Summary

Total Started Survey: 121
Total Completed Survey: 94 (77.7%)

Show this Page Only

Page: Who Are You?

1. Which best describes your current position?

	Response Percent	Response Count
Business Stakeholder	0.0%	0
Data Professional	1.7%	2
Developer	**73.6%**	89
IT Management	9.9%	12
Modeler (BA ...)	0.0%	0
Operations/Support Staff	0.8%	1
Project Manager	5.0%	6
Quality Assurance/Tester	2.5%	3
Other	6.6%	8
answered question		**121**
skipped question		**0**

2. How many years of experience in IT do you have?

	Response Percent	Response Count
None	0.0%	0
Less than 2 years	3.3%	4
2 to 5 years	18.2%	22
6 to 10 years	26.4%	32
11 to 20 years	**33.1%**	40
21+ years	19.0%	23
answered question		**121**
skipped question		**0**

3. What is the total number of people in your organization?

	Response Percent	Response Count
1 to 10	14.0%	17
11 to 100	21.5%	26
101 to 1000	**42.1%**	51
1,001 to 10,000	12.4%	15
10,001 to 100,000	5.8%	7
Over 100,000	4.1%	5
answered question		**121**
skipped question		**0**

4. Where are you based?

	Response Percent	Response Count
North America	**49.6%**	60
Europe	26.4%	32
Asia	8.3%	10
South & Central America	11.6%	14
Australia & New Zealand	3.3%	4
Africa	0.8%	1
answered question		**121**
skipped question		**0**

5. Which sector is your organization primarily in?

	Response Percent	Response Count
Financial	5.8%	7
Government	4.1%	5
IT Services	9.9%	12
Manufacturing	4.1%	5
Retail	9.1%	11
Software	**48.8%**	59
Other	18.2%	22
answered question		**121**
skipped question		**0**

Show this Page Only

Page: Your Experience With TDD

6. What is your experience with Acceptance TDD?

	Response Percent	Response Count
I am experienced with it	**43.9%**	47
I have experimented with it	24.3%	26
I have read about it but not tried it	29.9%	32
I haven't heard about it before now	1.9%	2
answered question	**107**	
skipped question	**14**	

7. What is your experience with Developer TDD?

	Response Percent	Response Count
I am experienced with it	**79.4%**	85
I have experimented with it	16.8%	18
I have read about it but not tried it	3.7%	4
I haven't heard about it before now	0.0%	0
answered question	**107**	
skipped question	**14**	

8. What is your personal belief in the effectiveness of Acceptance TDD?

	Response Percent	Response Count
Has the potential for significant quality improvement	**61.7%**	66
Has some potential for quality improvement	29.0%	31
Has little to offer	4.7%	5
Will increase the chance of project failure	0.0%	0
No opinion	4.7%	5
answered question	**107**	
skipped question	**14**	

9. What is your personal belief in the effectiveness of Developer TDD?

	Response Percent	Response Count
Has the potential for significant quality improvement	**92.5%**	99
Has some potential for quality improvement	7.5%	8

Has little to offer	0.0%	0
Will increase the chance of project failure	0.0%	0
No opinion	0.0%	0
	answered question	**107**
	skipped question	**14**

10. What benefits of Acceptance TDD have you ACTUALLY experienced (check all that apply, if any)?

	Response Percent	Response Count
Increased quality	60.8%	45
Increased ability of developers to safely change software	66.2%	49
Increased ability to react to changing stakeholder needs	51.4%	38
Improved specification accuracy	**73.0%**	54
Increased amount of specification	37.8%	28
Improved chance of keeping specifications in sync with the code	59.5%	44
	answered question	**74**
	skipped question	**47**

11. What benefits of Developer TDD have you ACTUALLY experienced (check all that apply, if any)?

	Response Percent	Response Count
Increased quality	92.2%	95
Increased ability of developers to safely change software	**98.1%**	101
Increased ability to react to changing stakeholder needs	72.8%	75
Improved specification accuracy	45.6%	47
Increased amount of specification	26.2%	27
Improved chance of keeping specifications in sync with the code	51.5%	53
	answered question	**103**
	skipped question	**18**

Show this Page Only

Page: TDD Adoption Within Your Organization

12. What is the support for Acceptance TDD within your organization?

	Response	Response

	Percent	Count
Management is willing to fund training and education for this practice	**36.7%**	36
Management wants IT to adopt this practice, but is not providing resources	21.4%	21
Management is actively against this practice	6.1%	6
Don't know	35.7%	35
answered question		**98**
skipped question		**23**

13. What is the support for Developer TDD within your organization?

	Response Percent	Response Count
Management is willing to fund training and education for this practice	**52.0%**	51
Management wants IT to adopt this practice, but is not providing resources	31.6%	31
Management is actively against this practice	8.2%	8
Don't know	8.2%	8
answered question		**98**
skipped question		**23**

14. Of the people who should be doing Acceptance TDD, what is the adoption rate within your organization?

	Response Percent	Response Count
Over 80%	11.2%	11
61% to 80%	13.3%	13
41% to 60%	9.2%	9
21% to 40%	3.1%	3
1% to 20%	**26.5%**	26
0%	20.4%	20
Don't know	16.3%	16
answered question		**98**
skipped question		**23**

15. Of the people who should be doing Developer TDD, what is the adoption rate within your organization?

	Response	Response

	Percent	Count
Over 80%	30.6%	30
61% to 80%	12.2%	12
41% to 60%	5.1%	5
21% to 40%	11.2%	11
1% to 20%	**32.7%**	32
0%	5.1%	5
Don't know	3.1%	3
	answered question	**98**
	skipped question	**23**

16. When it comes to adopting TDD within your organization, how are the potential challenges affecting you?

	Large Impact	Some Impact	No Impact	Don't Know	Response Count
Lack of skills	43.9% (43)	**44.9% (44)**	11.2% (11)	0.0% (0)	98
Lack of training/education	36.7% (36)	**44.9% (44)**	18.4% (18)	0.0% (0)	98
Lack of regression test suite(s) for existing systems	**48.0% (47)**	33.7% (33)	18.4% (18)	0.0% (0)	98
Waterfall culture	**38.8% (38)**	30.6% (30)	27.6% (27)	3.1% (3)	98
				answered question	**98**
				skipped question	**23**

Show this Page Only

Page: Learning TDD

17. What is your opinion about ease of learning Acceptance TDD?

	Response Percent	Response Count
Very Difficult	5.3%	5
Difficult	**34.0%**	32
Neutral	30.9%	29
Easy	10.6%	10
Very Easy	3.2%	3
No Opinion	16.0%	15
Any experiences you would like to share: view		23
	answered question	**94**
	skipped question	**27**

18. What is your opinion about ease of learning Developer TDD?

	Response Percent	Response Count
Very Difficult	11.7%	11
Difficult	**35.1%**	33
Neutral	27.7%	26
Easy	24.5%	23
Very Easy	1.1%	1
No Opinion	0.0%	0
Any experiences you would like to share: view		31
answered question		**94**
skipped question		**27**

19. Based on your experience, how effective are the following strategies for learning Acceptance TDD?

	Very Effective	Effective	Neutral	Ineffective	Very Ineffective	No Opinion	Response Count
Pair with TDD experienced person	**50.0% (47)**	14.9% (14)	2.1% (2)	2.1% (2)	0.0% (0)	30.9% (29)	94
Pair with another TDD learner	9.6% (9)	26.6% (25)	20.2% (19)	12.8% (12)	1.1% (1)	**29.8% (28)**	94
Training in TDD	7.4% (7)	**43.6% (41)**	16.0% (15)	1.1% (1)	0.0% (0)	31.9% (30)	94
Reading a TDD book	3.2% (3)	**40.4% (38)**	23.4% (22)	6.4% (6)	0.0% (0)	26.6% (25)	94
Reading articles about TDD	2.1% (2)	**34.0% (32)**	27.7% (26)	7.4% (7)	0.0% (0)	28.7% (27)	94
Discussing TDD on online forums	1.1% (1)	28.7% (27)	28.7% (27)	6.4% (6)	0.0% (0)	**35.1% (33)**	94
Teaching it to yourself	7.4% (7)	**29.8% (28)**	28.7% (27)	7.4% (7)	0.0% (0)	26.6% (25)	94
Mentoring by someone with TDD experience	**36.2% (34)**	28.7% (27)	3.2% (3)	0.0% (0)	0.0% (0)	31.9% (30)	94
					answered question		**94**
					skipped question		**27**

20. Based on your experience, how effective are the following strategies for learning Developer TDD?

	Very Effective	Effective	Neutral	Ineffective	Very Ineffective	No Opinion	Response Count
Pair with TDD experienced person	**73.4% (69)**	12.8% (12)	2.1% (2)	2.1% (2)	0.0% (0)	9.6% (9)	94
Pair with another TDD learner	10.6% (10)	**44.7% (42)**	19.1% (18)	11.7% (11)	1.1% (1)	12.8% (12)	94
Training in TDD	10.6% (10)	**55.3% (52)**	19.1% (18)	0.0% (0)	0.0% (0)	14.9% (14)	94

Reading a TDD book	6.4% (6)	**59.6% (56)**	25.5% (24)	7.4% (7)	0.0% (0)	1.1% (1)	94
Reading articles about TDD	4.3% (4)	**53.2% (50)**	31.9% (30)	8.5% (8)	0.0% (0)	2.1% (2)	94
Discussing TDD on online forums	4.3% (4)	**44.7% (42)**	31.9% (30)	8.5% (8)	0.0% (0)	10.6% (10)	94
Teaching it to yourself	11.7% (11)	**46.8% (44)**	28.7% (27)	9.6% (9)	0.0% (0)	3.2% (3)	94
Mentoring by someone with TDD experience	**54.3% (51)**	27.7% (26)	5.3% (5)	0.0% (0)	0.0% (0)	12.8% (12)	94
					answered question		**94**
					skipped question		**27**

Show this Page Only

Page: Your Current Project

21. Size of the project team?

	Response Percent	Response Count
Not currently on a project	0.0%	0
1 to 5	**38.3%**	36
6 to 10	37.2%	35
11 to 20	16.0%	15
21 to 50	3.2%	3
51 to 100	5.3%	5
101 to 200	0.0%	0
201 to 500	0.0%	0
501 or more	0.0%	0
answered question		**94**
skipped question		**27**

22. What is the level of application of TDD?

	Response Percent	Response Count
Both Acceptance and Developer TDD	**39.4%**	37
Just Acceptance TDD	1.1%	1
Just Developer TDD	31.9%	30
Regression Testing (non-TDD)	12.8%	12
None	11.7%	11
Don't know	3.2%	3

answered question	**94**
skipped question	**27**

23. What other forms of testing is your team doing? (select all that apply, if any)

	Response Percent	Response Count
End of lifecycle testing by independent QA/Test Team	45.2%	38
Parallel testing by independent test team throughout the lifecycle	35.7%	30
Developer regression testing	**59.5%**	50
Independent regression testing	22.6%	19
Reviews/inspections of work products	52.4%	44
answered question	**84**	
skipped question	**37**	

24. Who is writing tests and when are they doing it? (check all that apply, if any)

	Response Percent	Response Count
Analysts write tests before developers write production code	20.0%	18
Developers write tests before writing production code	**81.1%**	73
Developers write tests after writing production code	56.7%	51
Testers write tests after developers write production code	36.7%	33
answered question	**90**	
skipped question	**31**	

25. How is your team capturing requirements specifications? (check all that apply, if any)

	Response Percent	Response Count
Customer/acceptance tests	44.7%	42
Defect management tool (e.g. Bugzilla, ChangeQuest)	39.4%	37
Diagrams in drawing tools (e.g. Visio, PowerPoint)	17.0%	16
Digital snapshots of whiteboard sketches	13.8%	13
Paper models (cards, ...)	35.1%	33
Requirements management tool (e.g. Doors, ReqPro)	20.2%	19

Software-Based Modeling Tool models (e.g. ErWin, RSA, Enterprise Architect)	7.4%	7
Whiteboard sketches	34.0%	32
Wiki	25.5%	24
Word processor/text editor	**52.1%**	49
	answered question	**94**
	skipped question	**27**

26. How are you capturing design specifications? (check all that apply, if any)

	Response Percent	Response Count
Defect management tool (e.g. Bugzilla, ChangeQuest)	21.7%	20
Developer tests	**56.5%**	52
Diagrams in drawing tools (e.g. Visio, Powerpoint)	30.4%	28
Digital snapshots of whiteboard sketches	20.7%	19
Paper models (cards, ...)	27.2%	25
Software-Based Modeling Tool models (e.g. ErWin, RSA, Enterprise Architect)	12.0%	11
Whiteboard sketches	48.9%	45
Wiki	38.0%	35
Word processor/text editor	38.0%	35
	answered question	**92**
	skipped question	**29**

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