ISO/IEC 33063:2015-08 (E)

Information technology - Process assessment - Process assessment model for software testing

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Overview of the process assessment model 2
4.1 General 2
4.2 Structure of the process assessment model 3
4.2.1 Overview 3
4.2.2 Processes 3
4.2.3 Process dimension 5
4.2.4 Capability dimension 6
4.3 Assessment indicators 7
4.3.1 Overview 7
4.3.2 Process capability indicators 8
4.3.3 Process performance indicators 10
4.4 Measuring process capability 10

5 Process dimension and process performance indicators (level 1) 11
5.1 General 11
5.2 Organizational test process group 12
5.2.1 OT.1 Organizational test process 12
5.3 Test management process group 13
5.3.1 TM.1 Test planning process 13
5.3.2 TM.2 Test monitoring and control process 15
5.3.3 TM.3 Test completion process 16
5.4 Dynamic test process group 17
5.4.1 DT.1 Test design & implementation process 17
5.4.2 DT.2 Test environment set-up & maintenance process 18
5.4.3 DT.3 Test execution process 19
5.4.4 DT.4 Test incident reporting process 20

6 Process capability indicators (level 1 to 5) 21
6.1 General 21
6.2 Process capability levels and process attributes 21
6.2.1 Process capability Level 0: Incomplete process 21
6.2.2 Process capability Level 1: Performed process 22
6.2.3 Process capability Level 2: Managed process 22
6.2.4 Process capability Level 3: Established process 26
6.2.5 Process capability Level 4: Predictable process 30
6.2.6 Process capability Level 5: Innovating process 34

Annex A (informative) Conformity of the process assessment model 39

Annex B (informative) Assessment guidelines 44

Annex C (informative) Work product characteristics 47

Annex D (informative) Additional processes 61

Annex E (informative) Management support processes 64

Bibliography 69