

ISO/IEC 30130:2016-02 (E)

Software engineering - Capabilities of software testing tools

| Contents | | Page |
|--------------------|---|-------------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Object model for software testing tools | 2 |
| 4.1 | Overview of the object model | 2 |
| 4.2 | Test target | 3 |
| 4.3 | Dynamic test execution entity | 3 |
| 4.4 | Code analysis entity | 4 |
| 4.5 | Test management entity | 4 |
| 5 | Category of test entity | 5 |
| 5.1 | Overview | 5 |
| 5.2 | Categories of dynamic test execution entities | 5 |
| 5.2.1 | Input for dynamic test execution | 5 |
| 5.2.2 | Dynamic test execution | 5 |
| 5.2.3 | Test data repository | 5 |
| 5.2.4 | Test environment | 6 |
| 5.3 | Categories of code analysis entities | 6 |
| 5.3.1 | Input for code analysis | 6 |
| 5.3.2 | Code analysis | 6 |
| 5.4 | Categories of test management entities | 6 |
| 5.4.1 | Test plan | 6 |
| 5.4.2 | Test asset | 6 |
| 5.4.3 | Quality record report | 6 |
| 5.4.4 | Test completion report | 6 |
| 5.4.5 | Verification and validation report | 6 |
| 5.4.6 | Test status report | 6 |
| 6 | Characteristics of software testing tools | 6 |
| 6.1 | Overview | 6 |
| 6.2 | Quality characteristics | 7 |
| 6.3 | Granularity | 8 |
| 6.4 | Other aspects of characteristics | 9 |
| 7 | Capabilities of software testing tools | 9 |
| 7.1 | Overview | 9 |
| 7.2 | Dynamic test execution | 9 |
| 7.2.1 | Input for dynamic test execution | 9 |
| 7.2.2 | Dynamic Test Execution | 10 |
| 7.2.3 | Test data repository | 11 |
| 7.2.4 | Test Environment | 12 |
| 7.3 | Code analysis | 13 |
| 7.3.1 | Input for code analysis | 13 |
| 7.3.2 | Code analysis | 13 |
| 7.4 | Test management | 14 |

| | | |
|--|--|----|
| 7.4.1 | Test plan | 14 |
| 7.4.2 | Test asset | 14 |
| 7.4.3 | Quality record report | 14 |
| 7.4.4 | Test completion report | 15 |
| 7.4.5 | Verification and validation report | 15 |
| 7.4.6 | Test status report | 15 |
| 7.5 | Summary of capabilities with characteristics | 16 |
| Annex A (informative) Capabilities mapping to test process | | 19 |
| Annex B (informative) Overview of the approach for this International Standard | | 25 |
| Bibliography | | 27 |