

Announcement of a Webinar on SWEBOK 4th Edition Content and Usage

The Guide to the Software Engineering Body of Knowledge (SWEBOK Guide), published by the IEEE Computer Society (IEEE CS), reflects the current state of generally accepted, consensus-driven knowledge derived from the interaction between software engineering theory and practice. It summarizes key concepts across 18 knowledge areas (KAs) and includes a reference list for in-depth study. The latest version of the SWEBOK Guide V4 introduces new topics, updates existing ones, and retires outdated subjects. Agile and DevOps have been notably integrated into several KAs due to their widespread adoption since the previous edition. Additionally, three new knowledge areas - Software Architecture, Software Engineering Operations, and Software Security - have been added to enhance the foundational knowledge in software engineering. The new Guide also aims to better align related disciplines by reorganizing and renaming some content within different knowledge areas. To celebrate the publication of the SWEBOK Guide V4 in 2024, the SWEBOK editing team led by IEEE-CS President-Elect Hironori Washizaki will hold a series of webinars to introduce the guide. Notably, the editors who have edited knowledge areas will briefly explain each corresponding knowledge area's essence and major updates directly.

[Link to IEEE CS SWEBOK](#)

SWEBOK V4 Webinar Dates and Scope:

1. 26 September, 1:00 AM ~ 3:00 AM UTC / 10:00 AM ~ 12:00 PM JST

The first webinar provides an overview of the SWEBOK Guide V4 and introduces major software development knowledge areas, from requirements to construction.

Scope: Introduction, Software Requirements (Chapter 1), Software Architecture (Chapter 2), Software Design (Chapter 3), Software Construction (Chapter 4)

Panelists (subject to change): Hironori Washizaki (Waseda University, Japan), Steve Tockey (Construx Software, USA), Rich Hilliard, Steve Schwarm (Synopsys - Black Duck Software)

Presentation Materials:

- Part1. [Slides of Opening](#), [Opening Recording](#)
- Part2. [Slides of Introduction](#), [Introduction Recording](#)
- Part3. [Slides of Chapter 1](#), [Chapter 1 Recording](#)
- Part4. [Slides of Chapter 2](#), [Chapter 2 Recording](#)
- Part5. [Slides of Chapter 3](#), [Chapter 3 Recording](#)
- Part6. [Slides of Chapter 4](#), [Chapter 4 Recording](#)

2. 23 October, 2:00 PM ~ 4:00 PM UTC / 11:00 PM ~ 01:00 AM JST

The second webinar introduces major software testing, operations, maintenance, and management knowledge areas.

Scope: Software Testing (5), Software Maintenance (7), Software Configuration Management (8), Software Engineering Management (9)

Panelists (subject to change): Hironori Washizaki (Waseda University, Japan), Eda Marchetti (ISTI-CNR, Italy), Said Daoudagh (ISTI-CNR, Italy), Francis Bordeleau (École de technologie supérieure

(ÉTS), Canada), Maria Isabel Sánchez Segura (Universidad Carlos III de Madrid, Spain), Kenneth E. Nidiffer (George Mason University, USA), Alain April (Professor, École de technologie supérieure (ÉTS), Canada)

Presentation Materials:

- Part1. [Slides of Chapter 5](#), [Chapter 5 Recording](#)
- Part2. [Slides of Chapter 7](#), [Chapter 7 Recording](#)
- Part3. [Slides of Chapter 8](#), [Chapter 8 Recording](#)
- Part4. [Slides of Chapter 9](#), [Chapter 9 Recording](#)

3. 27 November 1:00 AM ~ 3:00 AM UTC / 10:00 AM ~ 12:00 PM JST

The third webinar introduces major software engineering models and methods, quality and professional practice knowledge areas as well as related standards.

Scope and Panelists

Software Engineering Operations (6) - Francis Bordeleau (École de technologie supérieure (ÉTS), Canada)
Software Engineering Models and Methods (11) - Hironori Washizaki (Waseda University, Japan)
Software Quality (12) - Alain April (Professor, École de technologie supérieure (ÉTS), Canada)
Software Engineering Professional Practice (14) - Katsuhisa Shintani (Waseda University, Japan)
Mathematical Foundations (17) - Steve Tockey (Construx Software, USA)
IEEE and ISO/IEC Standards Supporting SWEBOK (Appendix B) - Annette Reilly (USA)

Presentation Materials:

- Part1. [Slides of Chapter 6](#), [Chapter 6 Recording](#)
- Part2. [Slides of Chapter 11](#), [Chapter 11 Recording](#)
- Part3. [Slides of Chapter 12](#), [Chapter 12 Recording](#)
- Part4. [Slides of Chapter 14](#), [Chapter 14 Recording](#)
- Part5. [Slides of Chapter 17](#), [Chapter 17 Recording](#)
- Part6. [Slides of IEEE and ISO/IEC Standards Supporting SWEBOK \(Appendix B\)](#)
[IEEE and ISO/IEC Standards Supporting SWEBOK \(Appendix B\) Recording](#)

4. 9 December, 2:00 PM ~ 4:00 PM UTC / 11:00 PM ~ 01:00 AM JST

The fourth webinar introduces major software engineering processes, economics, and foundation knowledge areas.

Scope: Software Engineering Process (10), Software Security (13), Software Engineering Economics (15), Computing Foundations (16), Engineering Foundations (18)

Panelists: Hironori Washizaki (Waseda University, Japan), Juan Garbajosa (Universidad Politécnica de Madrid), Nobukazu Yoshioka (Waseda University, Japan), Maria Isabel Sánchez Segura (Universidad Carlos III de Madrid, Spain), Yatheendranath 'Yathi' TJ (DhiiHii Labs Private Limited, India), SteveTockey (Construx Software, USA)

Presentation Materials:

- Part1. [Slides of Chapter 10](#), [Chapter 10 Recording](#)
- Part2. [Slides of Chapter 13](#), [Chapter 13 Recording](#)
- Part3. [Slides of Chapter 15](#), [Chapter 15 Recording](#)
- Part4. [Slides of Chapter 16](#), [Chapter 16 Recording](#)
- Part5. [Slides of Chapter 18](#), [Chapter 18 Recording](#)

Webinar Format : Zoom

Registration Fee : Free

Organizer: [IEEE Computer Society](#)

Inquiries: IEEE Japan Office at ieee-japan@ieee.org

Registration Link : Please secure your schedule right [HERE](#) and join us! You will receive a Zoom Link later.

Links:

Registration URL :

https://docs.google.com/forms/d/1T97hBRzysi-CkRnYyMEZ4Nvs_TNjKI7YefdoO-FvHX8/viewform?edit_requested=true

IEEE Computer Society (IEEE CS):

<https://www.computer.org/>

Software Engineering Body of Knowledge (SWEBOK Guide):

<https://www.computer.org/education/bodies-of-knowledge/software-engineering>

#1 Presentation Material Links:

Part1. Slides of Opening,

https://drive.google.com/file/d/1YluJGVyp306dJisIEMfPsCBaisoxbmQV/view?usp=drive_link

Opening Recording

<https://waseda.box.com/v/swebok-webinar-opening>

Part2. Slides of Introduction,

https://drive.google.com/file/d/1kZHnNhYpmhMhqPNic8xpneqO2Untrn0Xj/view?usp=drive_link

Introduction Recording

<https://waseda.box.com/v/swebok-webinar-introduction>

Part3. Slides of Chapter 1,

https://drive.google.com/file/d/1trpUfqZB0vRUwrw55LTftmQ559Q-UnEt/view?usp=drive_link

Chapter 1 Recording

<https://waseda.box.com/v/swebok-webinar-c1-requirements>

Part4. Slides of Chapter 2,

https://drive.google.com/file/d/1VEbiCs-KOGugLzL4k7knCxc6bo1CjWpT/view?usp=drive_link

Chapter 2 Recording

<https://waseda.box.com/v/swebok-webinar-c2-architecture>

Part5. Slides of Chapter 3,

https://drive.google.com/file/d/1NXiAwm4zzotVQfVwUoNTZGK2zx9p3KGB/view?usp=drive_link

Chapter 3 Recording

<https://waseda.box.com/v/swebok-webinar-c3-design>

Part6. Slides of Chapter 4,

https://drive.google.com/file/d/1kqb30PsENj6lSgZdtFcr0DQVz8Pq6YKp/view?usp=drive_link

Chapter 4 Recording

<https://waseda.box.com/v/swebok-webinar-c4-construction>

#2 Presentation Material Links:

Part1. Slides of Chapter 5,

https://drive.google.com/file/d/1dGOfQ0vdDFMKOhT3_1s7lRtBizLNPG60/view?usp=drive_link

Chapter 5 Recording

<https://waseda.box.com/v/swebok-webinar-c5-testing>

Part2. Slides of Chapter 7,

https://drive.google.com/file/d/1Px1Hihch8amxtrJRcj_wh_UFqfrVAZwu/view?usp=drive_link

Chapter 7 Recording

<https://waseda.box.com/v/swebok-webinar-c7-maintenance>

Part3. Slides of Chapter 8,

https://drive.google.com/file/d/1q- tC7Chk2d3OkjMlqZnaT7K4CLK0upc/view?usp=drive_link

Chapter 8 Recording

<https://waseda.box.com/v/swebok-webinar-c8-scm>

Part4. Slides of Chapter 9,

https://drive.google.com/file/d/101jSvR9cGQDV0T2ss0vzdzZc1-JEatn4/view?usp=drive_link

Chapter 9 Recording

<https://waseda.box.com/v/swebok-webinar-c9-sem>

#3 Presentation Material Links:

- Part1 Slides of Chapter 6,
https://drive.google.com/file/d/11gLOmrAHAXhO5YwbreWw79I47pJwNhxx/view?usp=drive_link
Chapter 6 Recording
<https://waseda.box.com/v/swebok-webinar-c6-operations>
- Part2. Slides of Chapter 11,
https://drive.google.com/file/d/1Mcwu-Tz_tViyXfyw15u-JxTDDnLsv7Gb/view?usp=drive_link
Chapter 11 Recording
<https://waseda.box.com/v/swebok-webinar-c11-models>
- Part3. Slides of Chapter 12,
https://drive.google.com/file/d/1MvK9UKGNj8ebRft0Q_P5_2u4zQIKuCWY/view?usp=drive_link
Chapter 12 Recording
<https://waseda.box.com/v/swebok-webinar-c12-quality>
- Part4. Slides of Chapter 14,
https://drive.google.com/file/d/1nqKQgioaMpFAM6nu5_YzS2IP65p1LKGL/view?usp=drive_link
Chapter 14 Recording
<https://waseda.box.com/v/swebok-webinar-c14-profession>
- Part5. Slides of Chapter 17,
https://drive.google.com/file/d/173H417qmr47Ua0u9SCyfMx6jVYKh0NGG/view?usp=drive_link
Chapter 17 Recording
<https://waseda.box.com/v/swebok-webinar-c17-math>
- Part6. Slides of IEEE and ISO/IEC Standards Supporting SWEBOK (Appendix B),
https://drive.google.com/file/d/1OnLtsU9B9HaSaKf3gPyciwRlqv8lsZPW/view?usp=drive_link
IEEE and ISO/IEC Standards Supporting SWEBOK (Appendix B) Recording
<https://waseda.box.com/v/swebok-webinar-standards>

#4 Presentation Materials Links:

- Part1. Slides of Chapter 10,
https://drive.google.com/file/d/1C87zuM8tbFUbm4rNrZG_kIT5D6R2KyrO/view?usp=drive_link
Chapter 10 Recording
<https://waseda.box.com/v/swebok-webinar-c10-process>
- Part2. Slides of Chapter 13,
https://drive.google.com/file/d/1VfelGO8XiyhWvdxtzWYvdTSNstMKQ_c9/view?usp=drive_link
Chapter 13 Recording
<https://waseda.box.com/v/swebok-webinar-c13-security>
- Part3. Slides of Chapter 15,
https://drive.google.com/file/d/1aaCPmj0EEXMOFt7HSWlqva4CsKPjPcMK/view?usp=drive_link
Chapter 15 Recording
<https://waseda.box.com/v/swebok-webinar-c15-economics>
- Part4. Slides of Chapter 16,
https://drive.google.com/file/d/1F-5XrG0DV7Emts4xtTX8Hlejqu5Rw3jl/view?usp=drive_link
Chapter 16 Recording
<https://waseda.box.com/v/swebok-webinar-c16-computing>
- Part5. Slides of Chapter 18,
https://drive.google.com/file/d/19th7w2TWPKVTN-gKbkU5PMpxziEfAMOc/view?usp=drive_link
Chapter 18 Recording
<https://waseda.box.com/v/swebok-webinar-c18-engineering>