



CASS 61508 & 62061 Workshop

Overview of the CASS IEC 61508 and IEC 62061 Templates

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T6A Members



IEC 61508 CASS Templates

- What are Targets of Evaluation (TOEs)?
- CASS-508-FSM for *Functional Safety Management*.
- CASS-508-SLC for the *Safety Lifecycle*.
- CASS-508-SUB for the *Subsystems and / or Elements*.
- CASS-508-SYS for the *Safety-related System*.
- CASS-508-SW for any *Full Variability Language* (FVL) software.
- CASS-508-PLC for any PLC with *Limited Variability Language* (LVL) software.

IEC 62061 CASS Templates

- What are Targets of Evaluation (TOEs)?
- CASS-061 for FSM, hardware and lifecycle (some software)!
- CASS-508-PLC for any PLC with *Limited Variability Language* (LVL) software.

Why The CASS Templates Exist

- To support in the assessment of functional safety.
- Must be available before project start!
- To demonstrate compliance with IEC 61508 or related standard.
- Each functional safety standard has a lot of requirements (guide).
- Open to all and free-of-charge.
- Transparent methodology.
- Required by UKAS (accredited certification).

NOTE: Templates cover IEC, EN, and BS EN variants.

Rigor and Competence

- CASS templates reliant on the competence of the assessor!
- CASS templates can be used for any level of rigor.
 - Full FSA's.
 - Full assessments of functional safety.
 - Gap analysis of requirements.
 - Simple checklist of requirements (buying an asset).
- The rigor of any assessment must increase commensurate with the SIL.
- CASS templates must be used with a copy of the standard.
- CASS templates must be used by competent persons.

Template Location

- Where are the templates (<https://61508.org/downloads/>)?
- How can I find them (search)?
- How do I know the templates have been updated?
- CASS membership.

You are able to document repository or download

The screenshot shows a web interface for 'CASS Documents'. On the left is a sidebar menu with categories: CASS Documents, Excel Workbooks, Membership, Miscellaneous, Summary Papers, Technical papers and guide, and Technical papers presented. The main content area displays a table of documents under the heading 'CASS Documents'. The table has columns for Title, Categories, File Type, and Link. Below the table, there are folders for CASS Guide-A, IEC 61508, IEC 61511, and IEC 62061. At the bottom of the main area, there is a section for 'Excel Workbooks'.

Title	Categories	File Type	Link
CASS Functional Safety Management Declaration	CASS Documents	pdf	DOWNLOAD SEARCH <input type="checkbox"/>
CASS Registered Assessor application form	CASS Documents	docx	DOWNLOAD SEARCH <input type="checkbox"/>
Guidance on completing a CASS FSM declaration	CASS Documents	pdf	DOWNLOAD SEARCH <input type="checkbox"/>
The CASS Registered Functional Safety Assessor Scheme Manual	CASS Documents	pdf	DOWNLOAD SEARCH <input type="checkbox"/>

4 documents

TOE Walkthrough

- Walkthrough CASS-508-SUB/PLC NOTES....
- We'll now cover an example TOE for CASS-508-SUB (TOE 2)....
 - With a comparison TOE for CASS-508-SW (TOE 4)....
- We'll now cover an example TOE for CASS-508-PLC (TOE 10)....
 - With a quick stop at CASS-508-PLC (TOE 16a)....
- Walkthrough CASS-061 template NOTES....
- We'll now cover an example TOE for CASS-061 (TOE 6)....
 - With a quick stop at CASS-061 (TOE 19)....

Any Questions?

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What’s next....



Slot	Start Time	Paper	Workshop	Finish Time
-	12:25	LUNCH BREAK AND NETWORKING (Restaurant / Oak Room)		13:25
7	13:25	Slot A-7: Functional Safety and Artificial Intelligence	Slot B-7: CASS 61511 Workshop	13:55
8	14:00	Slot A-8: Black Box Testing for Functional Safety		14:30

We would be more than happy to discuss membership with you (<https://61508.org/cass/>)