TheCloudStrap.com

☰

About Us

Terms & Conditions

Privacy Policy   Write For Us

Contact Us

Google 지원

🔍

‹ DO 178B Objectives | Must Read   DO 331 Objectives List | Must Know ›

DO 178C OBJECTIVES
Summary of all the objectives

Wang alan

November 14, 2020 at 12:35 am

Thank you for

Admin

December 24, 2020 at 3:35 pm

I have sen

Srividya Appankalathil

January 20, 2021 at 3:17 am

Please send me a PDF version of the Do-178C objectives.

Table of Contents [hide]

Admin

February 24, 2021 at 7:28 pm

Hello Srividya,

I have emailed you the pdf document.

Thank you.

Fatemeh

February 21, 2021 at 7:21 am

TNX for the PDF version. :Pray:

In this article, I have put together all the DO-178C objectives list in one place for your reference. These DO-178C objectives list-based questions are commonly being asked in most aerospace companies for entry-level and experienced level positions. I have spent many hours compiling this.

Admin

February 24, 2021 at 7:30 pm

Hello Fatemeh,

I have emailed you the pdf document.

So, I hope you will enjoy this article—DO-178C Objectives list. I hope this would be helpful

for both fresher and experienced professionals.

Thank you.

Fahri

March 2, 2022 at 12:32 pm

I

After reading the complete article if you think that I have missed any other aspects, please e in the comment box. It will be definitely helpful for others. Good luck with your interview.

Gianni

April 21, 2022 at 1:16 pm

Very interesting reading for a beginner

Q1) Can you list the objectives of the Software Planning Process in DO178C?

Please send pdf

Sotiris Baxevanis

August 30, 2022 at 5:12 pm

objectives of the **Software Planning Process** are defined in the **DO 178C Table A-1**. There are **7 objectives** for the software planning process and the applicability of the objective depends on the software level.

Thank you for the information – I'm working to prepare for the DO-178C interview can a I get a pdf ocpy of the Interview questions?

For example, Objective #1 in the below table is applicable to Software Levels – A, B, C, and D. But, Objective #2 is only applicable to Software Levels – A, B, and C. There are no objectives defined for Software Planning Process for Level-E software in DO-178C.

Pingback: 28 MCDC Interview Questions – Aerospace Topics

James King

March 30, 2023 at 1:05 am

jdking@mcloudteleco.com

Comments are closed.

Serial Number	Objectives	Software Level-A	Software Level-B	Software Level-C	Software Level-D
1	The activities of the software life cycle processes are defined.	Applicable	Applicable	Applicable	Applicable
2	The software life cycles(s), including the inter-relationships between the processes, their sequencing, feedback mechanisms, and transition criteria, is defined.	Applicable	Applicable	Applicable	Not Applicable
3	Software life cycle environment is selected and defined.	Applicable	Applicable	Applicable	Not Applicable
4	Additional Considerations are addressed.	Applicable	Applicable	Applicable	Applicable

5	Software development standards are defined.	Applicable	Applicable	Applicable	Not Applicable
6	Software plans comply with this document.	Applicable	Applicable	Applicable	Not Applicable
7	Development and revision of software plans are coordinated.	Applicable	Applicable	Applicable	Not Applicable

DO 178C Table A-1: Software Planning Process

Q2) Can you list the objectives of the Software Development Process?

The objectives of the **Software Development Process** are defined in the **DO 178C Table A-2**. There are **7 objectives** for the software development process and the applicability of the objective depends on the software level.

For example, Objective #1 in the below table is applicable to Software Levels – A, B, C, and D. But, Objective #4 is only applicable to Software Levels – A, B, and C. There are no objectives defined for Software Development Process for Level-E software in DO 178C.

Serial Number	Objectives	Software Level-A	Software Level-B	Software Level-C	Software Level-D
1	High-level requirements are developed.	Applicable	Applicable	Applicable	Applicable
2	Derived high-level requirements are defined and provided to the system processes, including the system safety assessment process.	Applicable	Applicable	Applicable	Applicable
3	Software architecture is developed.	Applicable	Applicable	Applicable	Applicable
4	Low-level requirements are developed.	Applicable	Applicable	Applicable	Not Applicable
5	Derived low-level requirements are defined and provided to the system processes, including the system safety assessment process.	Applicable	Applicable	Applicable	Not Applicable
6	Source Code is developed.	Applicable	Applicable	Applicable	Not Applicable
7	Executable Object Code and Parameter Data Item Files, if any, are produced and loaded in the target computer.	Applicable	Applicable	Applicable	Applicable

Q3) What is DO 178C Table A-3?

The **DO 178C Table A-3** contains the objectives of the **"Verification of Outputs of Software Requirement Process"**. There are **7 objectives in Table A-3** and the applicability of the objective depends on the software level.

For example, Objective #1 in the below table is applicable for Software Levels – A, B, C, and D. But, Objective #3 is only applicable for Software Levels – A, and B. There are no objectives defined for Level-E software in DO 178C.

Serial Number	Objectives	Software Level-A	Software Level-B	Software Level-C	Software Level-D
1	High-level requirements comply with system requirements.	Applicable	Applicable	Applicable	Applicable
2	High-level requirements are accurate and consistent.	Applicable	Applicable	Applicable	Applicable
3	High-level requirements are compatible with target computer.	Applicable	Applicable	Not Applicable	Not Applicable
4	High-level requirements are verifiable.	Applicable	Applicable	Applicable	Not Applicable
5	High-level requirements conform to standards.	Applicable	Applicable	Applicable	Not Applicable
6	High-level requirements are traceable to system requirements.	Applicable	Applicable	Applicable	Applicable
7	Algorithms are accurate.	Applicable	Applicable	Applicable	Not Applicable

Q4) What is DO 178C Table A-4?

The **DO 178C Table A-4** contains the objectives of the **"Verification of Outputs of Software Design Process"**. There are **13 objectives in Table A-4** and the applicability of the objective depends on the software level.

For example, Objective #1 in the below table is applicable for Software Levels – A, B, and C only. But, Objective #13 is applicable for Software levels – A, B, C, and D. There are no objectives defined for Level-E software in DO 178C.

DO 178C Table A-4: Verification of Outputs of Software Design Process

Q5) What is DO 178C Table A-5?

The **DO 178C Table A-5** contains the objectives of the **"Verification of Outputs of Software Coding and Integration Process"**. There are **9 objectives in Table A-5** and the applicability

of the objective depends on the software level.

For example, Objective #8 in the below table is applicable for Software Levels – A, B, C, and D. But, Objective #3 is only applicable for Software Levels – A, and B. There are no objectives defined for Level-E software in DO 178C.

DO 178C Table A-5: Verification of Outputs of Software Coding and Integration Process

Q6) What is DO 178C Table A-6?

The **DO 178C Table A-6** contains the objectives of the **"Verification of Outputs of Integration Process"**. There are **5 objectives in Table A-6** and the applicability of the objective depends on the software level.

For example, Objective #1 in the below table is applicable to Software Levels – A, B, C, and D. But, Objective #4 is only applicable to Software Levels – A, B, and C. There are no objectives defined for Level-E software in DO 178C.

Q7) What is DO 178C Table A-7?

The **DO 178C Table A-7** contains the objectives of the **"Verification of Verification Process Results"**. There are **9 objectives in Table A-7** and the applicability of the objective depends on the software level.

For example, Objective #1 in the below table is applicable for Software Levels – A, B, and C. But, Objective #5 is only applicable for Level – A software. There are no objectives defined for Level-E software in DO 178C.

Q8) What is DO 178C Table A-8?

The **DO 178C Table A-8** contains the objectives of the **"Software Configuration Management Process"**. There are **6 objectives in Table A-8** and the applicability of the objective depends on the software level.

In the case of Table-8, all the objectives are applicable for Level-A, B, C, and D software. There are no objectives defined for Level-E software in DO 178C.

Q9) What is DO 178C Table A-9?

The **DO 178C Table A-9** contains the objectives of the **"Software Quality Assurance Process"**. There are **5 objectives in Table A-9** and the applicability of the objective depends on the software level.
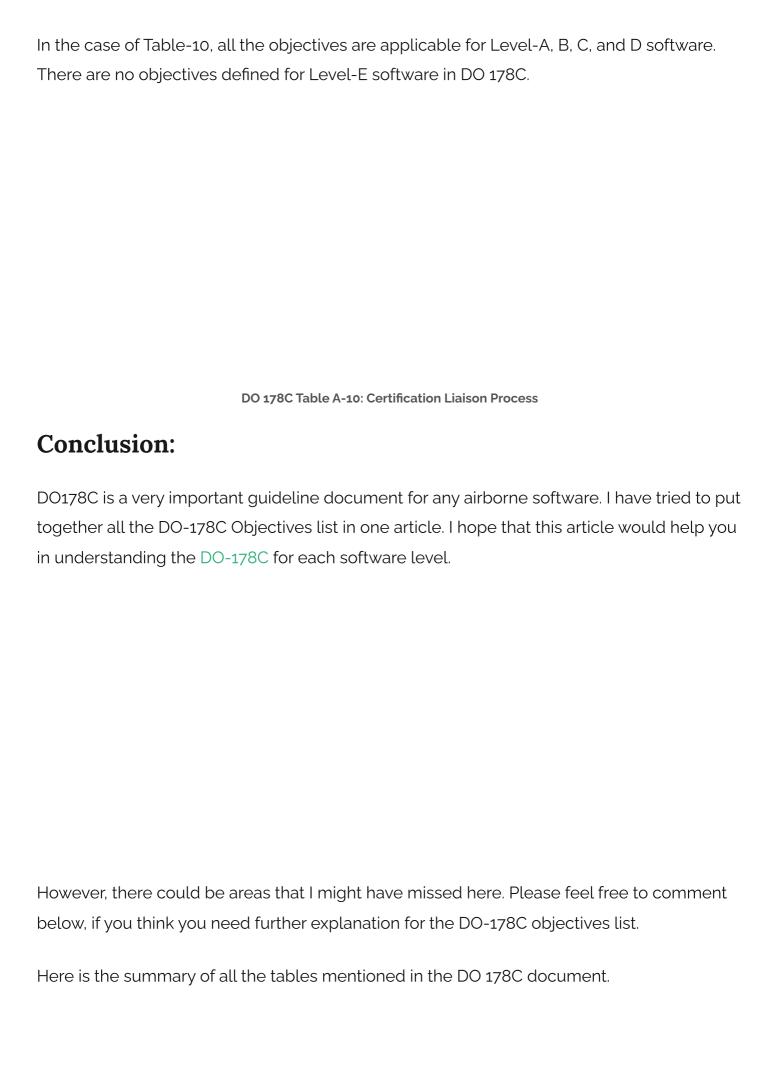
For example, Objective #2 in the below table is applicable to Software Levels – A, B, C, and D. But, Objective #1 is only applicable for Software Levels – A, B, and C. There are no objectives defined for Level-E software in DO 178C.

DO 178C Table A-9: Software Quality Assurance Process

Q10) What is DO 178C Table A-10?

The **DO 178C Table A-10** contains the objectives of the **"Certification Liaison Process"**. There are **3 objectives in Table A-10** and the applicability of the objective depends on the software level.

In the case of Table-10, all the objectives are applicable for Level-A, B, C, and D software. There are no objectives defined for Level-E software in DO 178C.

DO 178C Table A-10: Certification Liaison Process

Conclusion:

DO178C is a very important guideline document for any airborne software. I have tried to put together all the DO-178C Objectives list in one article. I hope that this article would help you in understanding the DO-178C for each software level.

However, there could be areas that I might have missed here. Please feel free to comment below, if you think you need further explanation for the DO-178C objectives list.

Here is the summary of all the tables mentioned in the DO 178C document.

I have also compiled another detailed DO-178C objectives list table in one document along with the explanation and created a pdf copy of it.
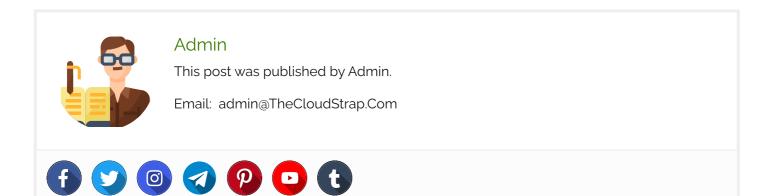
DO 178B Objectives   DO 178C Interview Questions

If you want to get the **FREE pdf copy**, please **comment your email ID** in the below comment box, I will send you the copy. This document would definitely give you a far better understanding of the objectives of DO 178C.

Hopefully, this article could help you!

Good luck with your interview.

Cheers!

Admin

This post was published by Admin.

Email: admin@TheCloudStrap.Com

Related Posts:

1. **DO 178B Objectives | Must Read**