

ABOUT THE PRESENTE

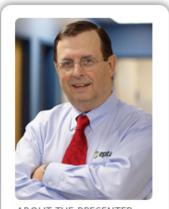
Leo Lambert

Vice President & Technical

Director, EPTAC



The Order of Precedence of IPC Documents and Requirements Flowdown



ABOUT THE PRESENTE

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC-A-610 Order of Precedence

Per 610 - *In the event of conflict, the following order of precedence applies:*

- Procurement as agreed and documented between customer and supplier.
- Master drawing or master assembly drawing reflecting the customer's detailed requirements.
- When invoked by the customer or per contractual agreement, IPC-A-610.
- When documents other than IPC-A-610 are cited, the order of precedence shall be defined in the procurement documents.



ABOUT THE PRESENTE Leo Lambert Vice President & Technical Director, EPTAC



J-STD-001 Order of Precedence

Per 001 Rev E
Section 1.7 Order of Precedence
"The contract always takes
precedence over this standard,
referenced standards and
drawings"



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC-A-600 Order of Precedence

Per -600 Order of Precedence:

- Procurement documentation, Purchase Order
- Procurement documentation reflecting the customer's detailed requirements.
- Other documents specified by customer
- End item performance specifications such as the IPC-6010 Series when invoked by customer
- This acceptability document



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC-A-600 Order of Precedence

- IPC-6010 series establishes the acceptability requirements for printed boards
- IPC-A-600 is a companion and complementary document, providing pictorial interpretation of these requirements.
- It is not intended to be used as a performance specification for printed board manufacture or procurement.



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC/WHMA-A-620 Order of Precedence

Procurement as agreed between User and Manufacturer

Master Drawing or master assembly drawing reflecting the User's detailed requirements

When invoked by the user or per contractual agreement, IPC/WHMA-A-620



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC/WHMA-A-620 Order of Precedence

- When IPC/WHMA-A-620 is cited as a standalone document for inspection and/or acceptance, the requirements of J-STD-001 or IPC-A-610 do not apply unless separately and specifically required.
- When IPC/WHMA-A-620, J-STD-001, IPC-A-610 and/or other related documents are cited, the order of precedence is to be defined in the procurement documents.



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC-2221 Order of Precedence

- 1. The procurement contract
- 2. The master drawing or assembly drawing
- 3. This standard
- 4. Other applicable documents.



ABOUT THE PRESENTI Leo Lambert Vice President & Technical Director, EPTAC



Order of Preference Summary

In all documents:

- Contracts,
- Customer documentation
- Other documents specified by the customer
- The specification



Leo Lambert
Vice President & Technical
Director, EPTAC



Conflicts between Documents



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



IPC documents

Assembly Process Document	Product Assurance Documents
001	610
PCB Fabrication 2221 6012 6013 6018	600
Cables 620	620



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



Order of Preference Conflict per 001

Between 001 and assembly drawing

 Applicable user approved assembly drawings/documents govern

Between Text of 001 and applicable documents cited in 001,

oo1 takes precedence

Between 001 and not approved user documents

001 governs



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



Order of Preference Conflict per 001

- When 001 is cited or required by contract, the requirements of 610 do not apply unless specifically required by contract.
- When 610 or other documents are cited along with 001, the order of precedence shall be defined in the procurement documents



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



Customer Responsibility

- The customer has the ultimate responsibility to specify acceptance criteria.
- If no criteria is specified, required, or cited, then the best manufacturing practice applies.



Leo Lambert Vice President & Technical Director, EPTAC



Criteria for Classes of **Products**

Criteria are given for each class in four levels of acceptance:

- Target Condition,
- Acceptable Condition, and either
- Defect Condition or
- Process Indicator Condition.



Leo Lambert Vice President & Technical Director, EPTAC



Requirement Flowdown

IPC/WHMA-A-620 1.10 J-STD-001, 1.9

 When this standard is contractually required, the applicable requirements of this standard (including product class - see 1.3) **shall [D1D2D3**] be imposed on all applicable subcontracts, assembly drawing(s), documentation and purchase orders



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

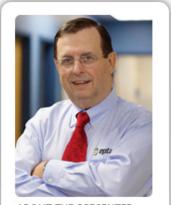
Director, EPTAC



Clause References

Per J-STD-001, 1.7.2

• When a clause in this document is referenced, its subordinate clauses also apply.



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



Use of Notes and Appendices

Notes: are use to expand a thought or explain a point of criteria, or a table, etc.

Appendices: Supplementary material at the end of a book, article, document or other text, usually of an explanatory nature



ABOUT THE PRESENTE

Leo Lambert

Vice President & Technical

Director, EPTAC



Handbooks

IPC-AJ-820 Assembly and Joining Handbook:

- This document provides guidelines and supporting information
- The intent is to explain the "how-to" and "why" information, and fundamentals for these processes.
- Nothing within this handbook is considered mandatory unless otherwise specified in the design or contract documentation.



Leo Lambert Vice President & Technical Director, EPTAC



Handbooks

J-STD-001 Handbook

Although this Handbook uses mandatory terminology (e.g., shall, must, etc.), nothing within this Handbook is considered mandatory unless otherwise specified as a mandatory requirement in the contract documentation.



ABOUT THE PRESENTE

Leo Lambert

Vice President & Technical

Director, EPTAC



Conclusions

- The contracts dictate the specific standard to be used to build the product.
- Appendices are supplemental information and are not part of the specifications.
- Handbooks are also supplemental documents explaining the specifics of the specifications.



ABOUT THE PRESENTER Leo Lambert Vice President & Technical Director, EPTAC



Thank You

Questions?



ABOUT THE PRESENTER

Leo Lambert

Vice President & Technical

Director, EPTAC



Further Information

Keep looking at our site for future topics of the webinars

For questions regarding this webinar, please contact Leo Lambert at <u>leo@eptac.com</u> or call at 800-643-7822 ext 215

For information on any of EPTAC's or IPC's Certification Courses, please visit our website at http://www.eptac.com