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**Leo Lambert**  
Vice President & Technical  
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# 2020 IPC APEX UPDATE

**"Updates on Industry  
Changes in IPC  
Standards and  
Certification Training"**



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## Topics of Interest

### Ongoing activities in the specifications

1. 001, 610, 620, 7711/7721, 6012 and 600, etc
2. Synergy meetings for 001, 610, and 620
3. Training committees
4. Certification committees
5. Specification task group committees
6. IPC has 405 document listed on its Revision Table [www.ipc.org](http://www.ipc.org)
  1. 375 active and 30 obsolete



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# J-STD-001/610

- The 001 and 610 are being updated to Rev H and the comments are being handled at the meetings and through zoom meetings and con calls.
- The current comments count is 768 comments on 238 pages
- Final draft released schedule March – May timeframe



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# J-STD-001/610

- New conformal coating criteria is being added for Type SC, Styrene Block Copolymer
- Sect 12 has been rewritten and will be added to Rev H
- Committee voted to remove Target condition from the 610 document
  - As stated by NASA @ the mtg:  
**“It does not have to be better than acceptable”**



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## J-STD-001/610

- Tin mitigation plan according to GEIA-STD-0005-2 will be necessary, or have some plan identifying how it is being handled by the industry
- The question is “What forces the users of 001 to have a tin mitigation plan?”
  - The point being “...if no whiskers were found on all the products since the introduction of lead-free, some questions still arise as to the need to have a plan and in some case the plan is to have no plan.



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## J-STD-001 GS/HS

- 001 G Amendment 1 passed ballot and being readied for release
- Task Group started on 001HS
- The committee will meet again in June at SummerCom





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# WHMA-IPC-620

- Document has been released for Revision D and it has 420 pages
- For a committee member the information can be found on IPCWorks
- The Classification TARGET has been removed from the document.

**7711/7721**



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- The comment sheet has 42 line items against Rev C , released Jan 2017
- There was no task group session at this meeting.
- We will be participating in the Certification task group reviewing the questions for the training program





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## IPC-6012

- Rev E was issued Feb 2020 at the APEX conference
- Work is beginning to update the 600 document with new criteria and pictures looking for March/April release



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## IPC-600

- Rev K comments were reviewed and accepted,
- The comments are being incorporated into the 600 document
- The pictures are being revised and modified as well as replaced and this work is ongoing as we speak,
- Section 2.5.6 will address backdrilled holes
- The lab is being updated to verify both 600 and 6012 agree with the requirement



## IPC-600



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- New videos on board fabrication along with microsections are being developed for the new revision.
- The videos will also explain materials and definitions such as
  - Laminate expansion
  - Keyholing /filleting
  - Internal annular ring
  - Teardrop
  - Flex circuits and replace pictures.
- The syllabus is being rearranged as Chapter 5 cleanliness testing and solderability will be added to Module 1 program



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# Education Team Structure

Operati  
ons

Amy  
Wright

Certifica  
tion

Joe  
Williams

Training

Carlos  
Plaza

Systems

Jose  
Gonzalez

Multi-  
Media





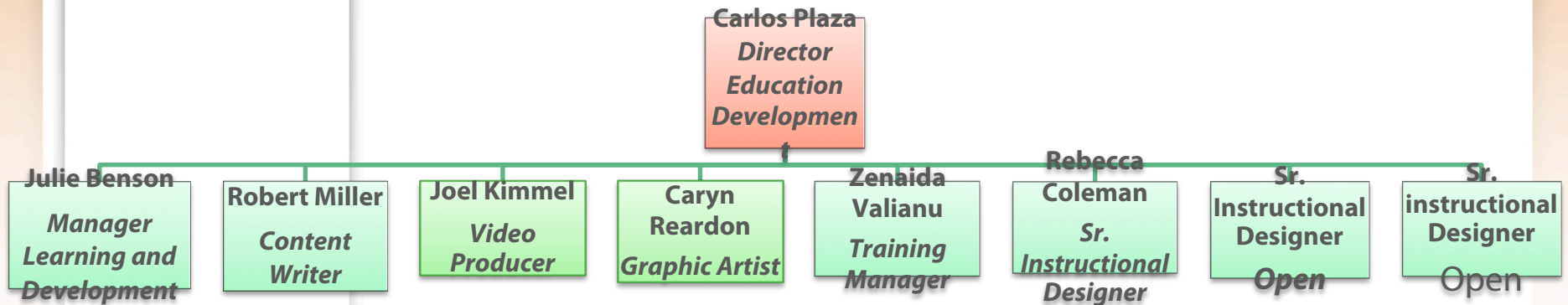
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# Training Organization



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# J-STD-001 Training

- All the questions are being rewritten and you should be seeing an indication from the students that these questions are different than the older ones
- There will be a new section for polymer application, chapter 10
- The cleaning section 8 uses amendment 1 of 001. This area for training is still under review





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# 610 Training

- How to address the removal of Target condition in the training programs
- 610 going to print in October, training program to be ready within a 6 month period



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# 620 Training

- Troublesome slides are being review and corrected
- The restriction of using cut and paste from new downloaded documents is creating issues with upgrading the existing material
- Part of the task groups is to look how to generate an ROI for implementing the training to help customers to see the cost value of training
- 620 Space updates will be discussed at Summer Com this summer



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# IPC-6012 Training

- Rev E was issued Feb 2020 at the APEX conference
- Once 600 is finished the training groups will update both programs



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# IPC-600 Training

- This program will be released around July of 2020.



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## Certification Committee

Questions on the writing workshop are the concept of this program, the questions will be:

- Multiple choice
- Concise to eliminate unnecessary information
- Focus on more important parts of the document
- Cultural sensitivity



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## Other Activities

### **CCC, Chairman Committee Council mtg**

- Emerging engineer program
- New URL for IPCWorks coming in March

### **Emerging Engineering program**

- Leo and Graham Naisbitt made presentation on Tribal Knowledge





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## Other Activities

### Training program advisory committee TPAC

- New committee establish to develop and monitor training programs
- Reviewed scope and responsibilities of members
- Define the requirement/fundamentals endorsements teaching credential, continuing education points, etc.



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**Thank You**  
**Any Questions?**



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## Further Information

For questions regarding this webinar, please contact  
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800-643-7822 ext 215

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