

The TCB Council's RF Exposure Training &

WORKSHOP

• October 14-17, 2024 • Baltimore & Online •

Workshop Activity Schedule

Monday, October 14	9:00 AM to 5:00 PM	RF Exposure Training
Tuesday, October 15	9:00 AM to 5:00 PM	Workshop Day One
Wednesday, October 16	8:00 AM to 8:50 AM	TCB Council Membership Meeting
	9:00 AM to 5:00 PM	Workshop Day Two (FCC)
	6:00 PM to 10:00 PM	TCBC Social at Guinness Brewery
Thursday, October 17	9:00 AM to 5:00 PM	Workshop Day Three

TCB Council LMS

The Workshop continues to be a paper-free event. Digital workshop materials are available on the TCB

Council LMS at <https://tcbCouncil.mclms.net/en/>. Registrants can then click login to enter their classroom. Look for your login information in your official email. Contact the TCB Council with any questions.

ims@TCBCouncil.org. Agenda is observed in Eastern Standard time (EST). Workshop Registration is available at www.tcbCouncil.org/



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Monday, Oct. 14

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Monday, October 14, 2024 RF Exposure Day

Time		Session Topic	Presenters
9:00 AM	9:15 AM	Welcome	Chris Harvey, TCB Council
9:15 AM	10:15 AM	Big Picture – History of SAR <ul style="list-style-type: none"> • History of USA and SAR • History of Canada and SAR • Europe and SAR 	Q Balzano IT'ISUSA Mark Briggs UL Verification Services
10:15 AM	10:30 AM	BREAK	
10:30 AM	11:15 AM	Continue - Rest of the World and SAR A Global Survey of RFX Requirements	Nate Grinager Approve-IT
11:15 AM	12:00 PM	Measurement Methods <ul style="list-style-type: none"> • SAR limits by frequency • Types of RF Exposure <ul style="list-style-type: none"> ○ SAR (psSAR, wbSAR, etc.) ○ Absorbed Power Density ○ Incident Power Density ○ E/H Field ○ Low Frequency SAR ○ Time-Averaged SAR/IPD • SAR and RF Exposure Measurement Standards 	Kaitlin O'Keefe RF Safety Lab
12:00 PM	1:00 PM	BREAK	
1:00 PM	2:00 PM	Continue - Measurement Methods	
2:00 PM	3:00 PM	What goes into SAR Testing? <ul style="list-style-type: none"> • Tissue measurements • System checks • SAR Testing & Reporting SAR 	Jay Moulton RF Exposure Lab
3:00 PM	3:30 PM	BREAK	
3:30 PM	5:00 PM	Practicum: Device examples <ul style="list-style-type: none"> • Product types: wearables, headsets, phones, tablet • Mobile: MPE, whole body SAR • Exempt devices (FCC KDB, RSS-102 Issue 6 exempt) • Vehicle, Low Earth Orbit, Others 	Steve Liu RF Safety Lab



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Tuesday, Oct. 15

WORKSHOP



TCB Council Workshop

Day One

Time		Session Topic	Presenters
9:00 AM	9:15 AM	Welcome and Introductions	Chris Harvey The TCB Council
9:15 AM	10:15 AM	NIST – MRA Updates	Ramona Saar and Nathalie Rioux National Institute of Standards and Technology (NIST)
10:15 AM	10:30 AM	BREAK	
10:30 AM	12:00 PM	ISED Canada – CEB Updates	Nicolas Desmarais and Jason Nixon ISED Canada Certification and Engineering Bureau (CEB)
12:00 PM	1:00 PM	BREAK	
1:00 PM	2:00 PM	ISED Canada Standards – DRS Updates	Stephan Meyer and Yan Losier ISED Canada Directorate of Regulatory Standards (DRS)
2:00 PM	3:00 PM	Europe Report – RED and UK-RER	Michael Derby Element Materials Technology
3:00 PM	3:30 PM	BREAK	
3:30 PM	4:30 PM	KDB Sharing Session	Greg Czumak ACB Inc
4:30 PM	5:00 PM	Asian Subcontinent & Pacific Approvals	Praveen Rao and Dishant Kumar C-Prav



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**TCB Council
Workshop
Day Two**

Wednesday, Oct. 16



Time	Session Topic	Presenter
8:00 – 8:45	TCB Council Membership meeting	Members Only
9:00 – 9:05	1.1 Introduction	Reza Biazaran
	PSHS Bureau	
9:05 – 9:45	1.2 US Cyber Trust Mark	Zoe Li
9:45 – 10:00	1.3 Administrative Notes & Publications Updates	Jim Szeliga
10:00 – 10:30	Break	
10:30 – 10:50	1.4 PAG Updates	Alfonso Tarditi
	OET Front Office	
10:50 – 11:30	2.1 Spectrum Proceedings	Ira Keltz
	EMC & Related Topics	OET Lab
11:30 – 12:00	3.1 EMC Updates	Dusmantha Tennakoon
12:00 - 1:00	Lunch	
1:00 – 1:20	3.2 6 GHz CBP Testing	Dusmantha Tennakoon
1:20 – 1:40	3.3 Part 15.255 Radar Updates	Justin Rison
	RF Exposure	OET Lab
1:40 – 2:00	4.1 Carrier Aggregation & Simultaneous Transmissions	Alfonso Tarditi
2:00 – 2:30	4.2 RF Exposure Updates	Alfonso Tarditi
2:30 - 3:00	Break	
	FCC Reviews	OET Lab
3:00 – 3:45	5.1 Review of TCB PAG Submissions	Len Knight
3:45 – 3:55	5.2 TCBS & Test Labs Recognition Procedure Updates	George Tannahill
3:55 – 4:10	5.3 TCB Market Surveillance	Dusmantha Tennakoon
4:10 – 4:30	FCC Session Summary: Q & A	Reza Biazaran/ Muli Kifle
	Conclusion	OET Lab



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Thursday, Oct. 17



TCB Council Workshop

Day Three

Time		Session Topic	Presenters
9:00 AM	9:45 AM	A Deep Dive into the FCC KDB 987594 for Testing WLAN Devices	Feng Xie Rohde & Schwarz
9:45 AM	10:30 AM	Measurements using modern Spectrum Analyzers	Bill Koerner Keysight
10:30 AM	11:00 AM	BREAK	
11:00 AM	11:45 AM	HAC – Intro & Update on TR-41 Standards Committee	Nima Molaei & Justin Chao Element Materials Technology
11:45 AM	1:00 PM	BREAK	
1:00 PM	1:45 PM	Latest Compliance Techniques for WPT for US and Canada	Kaitlin O’Keefe & Mark Biros RF Safety Lab
1:45 PM	2:30 PM	Adoption of 60GHz Technologies in Global Markets”	Nate Grinager, Claudia Cordon, and Merritt Pulkrabek Approve-IT
2:30 PM	3:00 PM	BREAK	
3:00 PM	3:30 PM	Admin Differences – C2PC, C4PC, Multiple and Family Approvals	Jennifer Sanchez HCT America
3:30 PM	4:00 PM	Update to Differences Between ISED and FCC	Mark Briggs UL Verification Services
4:00 PM	4:30 PM	Overcoming the Remaining Regulatory Challenges in Efficient Experimental Evaluation of Wireless Devices	Niels Kuster Schmid & Partner Engineering AG (SPEAG)
4:30 PM		Wrap Up	Chris Harvey



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