

Technical Security Specialist (TSS)™ Certification Program | Annual Certification Review (ACR)™ Kestrel TSCM® Professional Software (KPT) | Technical Analyst Certification (TAC)™

Our Advanced Resident and Non-Resident Training and Certification Programs are based on the TSB 2000 (Technical) Standard™ developed by the Technical Research and Standards Group (TRSG) of Professional Development TSCM Group Inc. Certification is qualified on accumulated actual field hours and experience, past and on-going training and professional development achievements, and an Annual Certification Review (ACR), with annual supplemental professional development skills maintenance requirements.



Technical Security Specialist (TSS)™ Designate Certification

(14-Day) Sunday October 16, 2016 – Sunday October 30, 2016

Kestrel TSCM® Professional Software (KTP)

(3-Day) Tuesday October 18, 2016 – Thursday October 20, 2016

Kestrel Technical Analyst (TAC)™ Certification

(4-Day) Tuesday October 18, 2016 – Friday October 21, 2016

Annual Certification Review (ACR)™

(3-Day) Tuesday October 18, 2016 – Thursday October 20, 2016



**Technical Research and
Standards Group (TRSG)**

Resident Training Centre (RTC)

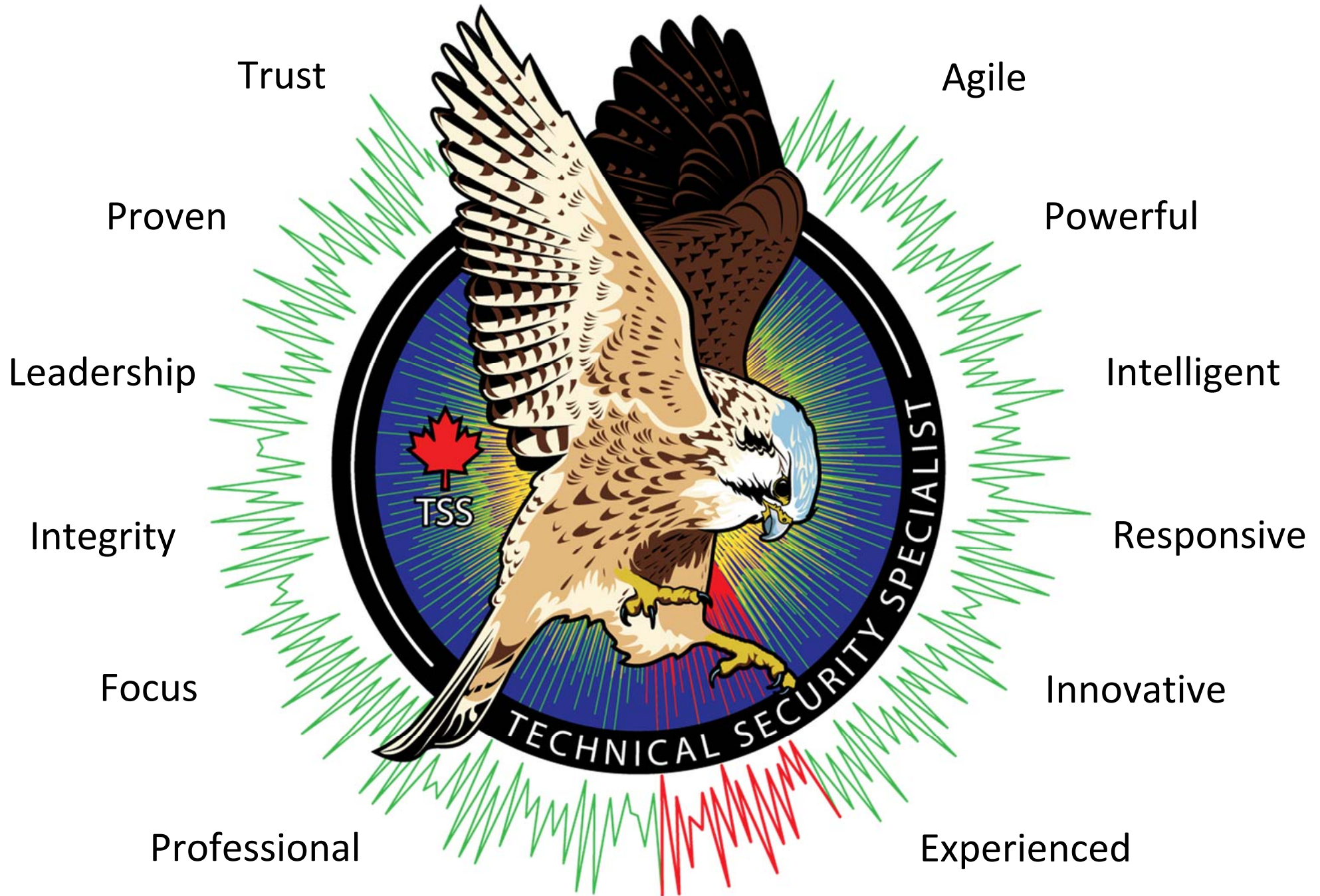
| TSS | KTP | TAC | ACR |

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Technical Surveillance Countermeasures (TSCM) | TSS Certification Program | Credit (65.0) Hours

Sunday October 16, 2016	Monday October 17, 2016	Tuesday October 18, 2016	Wednesday October 19, 2016	Thursday October 20, 2016	Friday October 21, 2016	Saturday October 22, 2016	Sunday October 23, 2016
Travel Day Check-In 1600 Resident Training Centre (RTC)	Breakfast 0645 – 0830 Morning Break 0930 0830 – 1100 (2.50) CLASSROOM C210	Breakfast 0645 – 0830 Morning Break 0930 0830 – 1100 (2.50) CLASSROOM C210	Breakfast 0645 – 0830 Morning Break 0930 0830 – 1100 (2.50) CLASSROOM C210	Breakfast 0645 – 0830 Morning Break 0930 0830 – 1100 (2.50) CLASSROOM C210	Breakfast 0645 – 0830 Morning Break 0930 0830 – 1100 (2.50) CLASSROOM C210	Breakfast 0800 – 0900 Morning Break 1000 0900 – 1130 (2.50) CLASSROOM C210	Breakfast 0800 – 0900 Morning Break 1000 0900 – 1130 (2.50) CLASSROOM C210
	Facility TSS Program Orientation	New Methodology New Revenue Streams	Master Automatic Threat List (ATL)	Ambient Noise Floor (ANF)	Kestrel Technical Analysis Certification (TAC)	Understanding Signal Propagation (11)	Signal and Modulation Analysis (15)
	Introduction (01)	Software Installation EULA Host PC Configuration	Differential Signal Analysis (DSA) Live View DSA LAB	Advanced Signal Intelligence Database (ASID) IC FCC	Probability of Intercept (POI) Vs Probability of Detection (POD)	Antenna Wavelength Vs Frequency	Modulation Analysis SDR Display Parameters Configuration
	TSB 2000 (Technical) Standard™ (02)	Receiver Licensing Initialization and Setup	DSA Trace Limit (DTL) Event Alarm Operation	Operator Signal List (OSL) Operation LAB	Signal Recognition and Analysis (SRA)	Spectral Images Intermodulation	
	TSS Certification Process (03)	Multiple Receiver Operation (MRO)	Time Differential Signal Analysis (TDSA)	Default Control Settings (DCS)	Kestrel Spectrum Analytics (KSA)	Antenna Theory and Management (12)	
	1600 - 1700 RTC Arrival Check-in	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1130 – 1230 Afternoon Break 1430
Participant Free Time	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1700 (4.50) CLASSROOM C210
	Equipment Familiarization Review LAB I	User Interface Project Templates Setup Wizard Programming	Historical Trace Data Import Comparative DSA Trace Colour	Remote Spectrum Monitoring and Surveillance (RSSM)	Signal Identification Classification Event Characterization	Communication Search Receivers Analyzers (13)	RF Spectrum Environment Band Allocation (16)
	Operational Administration (04)	Project Activity Scheduler Status Display Group LAB	Spectrum Baseline Logging (SBL) Kestrel Broadband Search (KBS)	Remote Desktop Software (RDS) Deployment	Ambient RF Spectrum Environment Threat Recognition	Software Defined Radio (SDR) Hardware	Spectrum Bands Sub-Bands Channels Carriers Sub-Carriers
	Fundamental Theory and Application (05)	Project File Management	Minimum Detection Amplitude (MDA) LAB	RSSM Deployment Considerations	Panoramic Capture Vs Narrow Band Focus		
	Physical Security Posture (06)	RF Spectral Display (RSD) Waterfall Display (WFD) LAB	Chirp Threat Mode (CTM) Harmonic Signature Analysis (HST)	Dynamic Alert Annunciator (DAA) Alert Statistics LAB	Developing a Signal Reference Database (SRD) RF Spectrum Research		
Dinner 1730 – 2000	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900
Participant Free Time	1900 – 2100 (3.00) CLASSROOM C210	1900 – 2200 (3.00) CLASSROOM C210	1900 – 2200 (3.00) CLASSROOM C210	1900 – 2200 (3.00) CLASSROOM C210	Participant Free Time	1900 – 2100 (2.00) CLASSROOM C210	Participant Free Time
	Threat Level Determination (07)	Live View Analysis (LVA)	Demodulation Audio Record Visualizer	Real-Time Vs Post Review Signal Analysis		Panoramic Spectrum Analysis (14)	
	Physical Inspection Principles (08)	Channel Profile Masks (CPM) Spectrum Profile File (SPF)	Audio Record Vs IQ Record IQ Playback IQ Playback Loop	Automatic Export Control (AEC) OPT AEC Operation		Isolating Signals of Interest (SOI) Quick Characterization	
	Equipment Transport and Handling (09)	Positional Zoom Control (PZC)	KIQ CSV IQ File Format Data Capture	Image Capture Tool (ICT)			
	Operational Support Resources (10)	Horizontal Range Control (HRC) LAB	CSV IQ File KIQ Conversion Utility LAB	Session Report Generator (SRG) LAB			
	TSS BAS (9.50)	TSS ADV KPT (10.0)	TSS ADV KTP (10.0)	TSS ADV KTP (10.0)	TSS ADV TAC (7.50)	TSS INT (9.50)	TSS INT (7.00)

Technical Surveillance Countermeasures (TSCM) | TSS Certification Program | Credit (55.0) Hours

Monday October 24, 2016	Tuesday October 25, 2016	Wednesday October 26, 2016	Thursday October 27, 2016	Friday October 28, 2016	Saturday October 29, 2016	Sunday October 30, 2016	
Breakfast 0645 – 0830 Morning Break 0930	Breakfast 0645 – 0830 Morning Break 0930	Breakfast 0645 – 0830 Morning Break 0930	Breakfast 0645 – 0830 Morning Break 0930	Breakfast 0645 – 0830 Morning Break 0930	Breakfast 0800 – 0900 Morning Break 1000	Breakfast 0800 – 0900 Morning Break 1000	The total required training time allocation for the Technical Security Specialist (TSS) Designate Certification Program is approximately 120 hours, which does not include approximately 10 hours allocated for the completion of the self-directed Certification Examination Process (CEP)
0830 – 1100 (2.50) CLASSROOM C210	0830 – 1100 (2.50) CLASSROOM C210	0830 – 1100 (2.50) CLASSROOM C210	0830 – 1100 (2.50) CLASSROOM C210	0830 – 1100 (2.50) CLASSROOM C210	0900 – 1130 (2.50) CLASSROOM C210	0900 – 1100 (2.00) CLASSROOM C210	
Very Low Frequency (VLF) (17)	Telephone Network Inspection (22)	Methods of Technical Surveillance (24)	Optical Camera Detection	Operational Inspection Deployment LAB	Operational Inspection Deployment LAB	TSS Lecture Clean-up Q & A Opportunity	
Infrared (IR) Visible Light Modulation (18)	TELCO Simulator Familiarization Briefing	Reports and Evidence Documentation (25)	Wireless Camera Detection Spectrum Analysis Identification	Inspection Planning Protocol (IPP)	Thermal imaging	TSS Certification Examination Process (CEP) Review	
Audio Acoustical Leakage (AAL) (19)	Demarcation Signal Flow and Mapping	Discovered Device Protocol (26)	Signal Analysis Characterization	Physical Inspection Protocol	Optical Infrared (IR) Detection		<<< >>>
VLF PLC BPL IR AAL LAB I	Telephone Analysis Practical LAB I	TSCM Legal Considerations (27)					The total required training time allocation for the Kestrel TSCM Professional Software Operator Certification Program is approximately 30 hours. There is no Certification Examination Process required for this program.
Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1115 – 1230 Afternoon Break 1430	Lunch 1130 – 1230 Afternoon Break 1430	RTC Check-Out 1100	
1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	1230 – 1730 (5.00) CLASSROOM C210	Travel Day Check-Out 1100	<<< >>>
Non-Linear Junction Detection (NLJD) (20)	Telephone Analysis Practical LAB II	Operational Inspection Procedures (OIP) (28)	Operational Inspection Deployment LAB	Operational Inspection Deployment LAB	Operational Inspection Deployment LAB		The total required training time allocation for the Technical Analysis Certification (TAC) Program is approximately 37.5 hours. There is no Certification Examination Process required for this program.
NLJD Technology Review Evaluation	Cordless Telephone Technology	Vehicle Inspection Principles	Telephone Network Analysis (TNA)	Radio Direction Finding (RDF)	Panoramic Spectrum Analysis (PSA)		
Demonstration and Familiarization	Computer Network Analysis (23)	Vehicle Inspection (TSD) LAB I	Voltage Current Analysis	Signal Characterization Source Localization			
Non-Linear Junction Detection (NLJD) LAB I	Wi-Fi Bluetooth Alarm Wireless AV Signal Analysis	Vehicle Inspection (EOD) LAB II	Telephone Network RF Threat Identification		Remote Spectrum Surveillance and Monitoring (RSSM)		<<< >>>
Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 2000	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900	Dinner 1730 – 1900 Evening Break 2000	Dinner 1730 – 1900 Evening Break 2000		Innovation is Simply the Beginning!
1900 – 2100 (2.00) CLASSROOM C210	Participant Free Time	1900 – 2100 (2.00) CLASSROOM C210	Participant Free Time	1900 – 2100 (2.00) CLASSROOM C210	1900 – 2100 (2.00) CLASSROOM C210		
Thermal Imaging (21)		Operational Inspection Deployment LAB		Operational Inspection Deployment LAB	Operational Inspection Deployment LAB		
Thermal Imagers Introduction Review		Technical Surveillance Device (TSD) Testing		Non-Linear Junction Detection (NLJD) Location	RF Broadband Detection Location		
Thermal Imaging LAB I		Technical Analysis and Evaluation		900 MHz 2.4 GHz NLJD Target Evaluation	Kestrel Kestrel Broadband Search (KBS)		
		Evaluation RF Broadband Spectrum Analysis NLJD Thermal Properties			Powerline Carrier (PLC) Broadband Powerline (BPL)		
TSS INT (9.50)	TSS ADV (7.50)	TSS ADV (9.50)	TSS ADV (7.50)	TSS ADV (9.50)	TSS ADV (9.50)	TSS ADV (2.00)	TOTAL (120.0)

Additional Information

BREAKS: Continuous refreshments are available during the day, from 0900 to 1600 in the classroom and lab suite lobby area, with a scheduled morning and afternoon break. ***Please return to the classroom at the designated time posted, or as requested by the TSI.***

MEALS: RTC on-site meals (breakfast, lunch and dinner) are served according to the times posted on the training agenda, and are coordinated with the ***Resident Training Centre (RTC) Propeller Restaurant*** operational hours.

PROMPTNESS: Please plan your time accordingly, to arrive at the classroom or other designated training location at the times posted, or as requested by the TSI. Likewise, we ask that participants promptly leave the classroom during breaks, lunch and dinner, when dismissed by the TSI. Instructional staff will oftentimes need to undertake preparation for the next session, and will have only a limited amount of time to complete these tasks.

READING: Given the time compressed intensity of the ***Technical Security Specialist (TSS)*** certification training agenda, the ***TSI*** may assign reading and course material for review during outside of scheduled classroom time. The intent of these self-study instructional periods is to provide participants with an opportunity to review material that cannot be fully explored during actual classroom, or lab instructional time.

CLASSROOM: The classroom setup must be adjusted during various training phases. It is important that participants remove personal property and any issued training materials at the end of each training day, to facilitate room setup and operational equipment adjustments. Access to the classroom is strictly controlled outside of scheduled training hours. Should a situation arise in which a participant must access the training room for any reason, contact the ***Paul Turner, TSS TSI*** at ***1-888-293-7384*** for assistance. Strict security protocols are in place for our dedicated classrooms.

SAFETY: Given the practical, hands-on nature of the training, **ALL** participants must take an active role at every opportunity, to complete tasks with safety being the first priority and recognize potentially unsafe situations and take steps to remedy and / or report hazardous situations. Specific hazards include trip and fall (cables and electrical cords), falls (stairs / ladders), electrocution hazards (antenna probes / electrical power sources / high voltage equipment), and other potential hazards that may result in injury or death. ***Report all safety concerns to the TSI immediately!***

EQUIPMENT: We endeavour to provide the widest selection of equipment resources possible during our training programs. Please treat all test and measurement, telecommunication and TSCM equipment resources as if you have paid for them yourself. Repairs and replacement can be extremely costly and time consuming. Please **DO NOT** unplug power cables, extension cords, or power bars during the training unless you are sure it is safe to do so, to avoid data corruption or loss, and potential damage to sensitive equipment resources.

ESD: ***Electro-Static Discharge (ESD)*** is the primary cause of expensive damage to ***TSCM*** based ***RF*** equipment resources. Always discharge ***ESD*** prior to connecting or disconnecting antennas, cables and connectors. Ensure that equipment is powered down prior to connecting or disconnecting power sources. Avoid touching antennas and equipment connectors whenever possible. Use the provided ***ESD*** mats whenever possible during practical exercises.