

TECHNOLOGY SERVICES

Professional Development Catalog

Free sessions, workshops, and keynotes for K-12 technology directors, network administrators, system engineers, CSBOs, and district leadership.

Practical learning for the people who keep districts running

At LTC Technology Services, we empower K-12 technology leaders and administrators with practical knowledge, actionable frameworks, and strategic guidance. Our professional development offerings bridge the gap between technical operations, security posture, and educational leadership, helping school districts shift from reactive troubleshooting to proactive management.

WHO IT'S FOR K-12 Technology Directors, Network Administrators, System Engineers, CSBOs, and District Leadership

COST All sessions are free.

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1

Leadership & Operational Management

Planning, people, communication, and governance for the technology department

The K–12 Technology Leader Annual Playbook

Presentation

Breakout

60–90 min

For: Technology Directors, CTOs, IT Coordinators

Technology leadership has a predictable rhythm throughout the school year. This session walks participants through major annual responsibilities, project lifecycles, state deadlines, and strategic planning cycles. Grounded in LTC Tech Leader Mentor Program insights, participants leave with a structured, proactive framework instead of constantly reacting to the next technical crisis.

KEY TOPICS COVERED

- Summer technology projects and deployment strategies
- Back-to-school technology readiness and account management
- Cybersecurity priorities, annual reviews, and E-Rate planning cycles
- State testing preparation and device/infrastructure lifecycle planning
- Technology budgeting, forecasting, and vendor contract management
- Building a year-round, proactive technology calendar

From Technician to Technology Leader

Presentation

Breakout

60 min

For: Aspiring Tech Directors, System/Network Administrators transitioning to leadership

Technical expertise gets you into the role; leadership expertise keeps the department thriving. Moving into leadership requires a distinct set of professional competencies. This session addresses the mental shift from fixing technical problems to leading district-wide technology initiatives, managing people, and aligning technology with learning goals.

KEY TOPICS COVERED

- Prioritization vs. technical fixing in competing district environments
- Strategic technology planning and budget management
- Communicating effectively with superintendents and school boards
- Vendor relationships, policy development, and delegation
- Developing a long-term technology vision

The K–12 EdTech Leader Toolkit: Resources You Didn't Know You Needed

Resource–Driven Breakout**Workshop****60–90 min**

For: Technology Leaders, System Administrators, EdTech Coordinators

Technology leaders do not need to solve every operational challenge from scratch. This practical, resource-driven session introduces bookmark-ready tools, websites, templates, checklists, communities, and services that streamline K-12 IT management.

KEY TOPICS COVERED

- Planning templates, tech calendars, and project management resources
- Network documentation, IP addressing, and monitoring utilities
- State testing technical documentation and SOPPA/data privacy tools
- CISA, NIST, and CIS cybersecurity frameworks and incident response templates
- Google Admin, Workspace security, and Chromebook lifecycle tools

Turning It Off and Back On Again... Bridging Tech and Teacher Communication

Presentation**Breakout****60 min**

For: IT Support Teams, Tech Directors, Instructional Coaches, Building Administrators

Technology departments and instructional staff often speak different languages. This session focuses on improving communication between IT teams, teachers, and administrators so technical issues can be resolved efficiently and without frustration.

KEY TOPICS COVERED

- Translating technical complexities into plain, accessible language
- Communicating outages, updates, and security requirements effectively
- Setting realistic support expectations and improving ticket workflows
- Building empathy, trust, and strong relationships with instructional staff

Managing AI in the Google Admin Console: What K-12 Admins Need to Know

Presentation · 50 min

Hands-On Workshop · 90-120 min

For: Google Workspace Administrators, Technology Directors, System Administrators, Instructional Technology Leaders

As Gemini and other AI-powered features continue expanding across Google Workspace for Education, technology leaders need to understand where those services are controlled and how administrative decisions affect staff and student access. This session introduces the AI-related settings available within the Google Admin Console and helps administrators better understand access, age-based controls, organizational units, connected apps, Workspace data access, and available security and privacy protections. Google currently allows Workspace administrators to control access to Gemini and restrict how it interacts with Workspace data and connected services.

50-Minute Presentation

Participants will receive a guided tour of the Google Admin Console settings that influence AI access and functionality. The session will explore how Gemini access can be managed for different groups of users, how age-based settings and organizational structures affect student and staff experiences, how connected Workspace applications interact with Gemini, and what administrators should consider when enabling new AI capabilities. Participants will leave with a clearer understanding of where AI controls live and the questions districts should consider before changing them.

Hands-On Workshop — 90-120 Minutes

Participants will work within their own Google Workspace environment to review current AI-related configurations and determine how those settings align with district expectations. Attendees will examine Gemini access, age-based settings, organizational unit and group configurations, connected applications, Workspace data access, and available security controls. The workshop will help participants identify needed configuration changes and develop a more intentional approach to managing AI access for staff and students.

Data Privacy for District Leaders and Privacy Officers

Breakout Session · 50 min

Workshop · 90-120 min

For: District Administrators, Building Administrators, Privacy Officers, Instructional Technology Leaders

Protecting student privacy requires aligning federal frameworks with state-level mandates and operational software management. This session gives district leaders and privacy officers a practical roadmap for managing student data compliance under the Family Educational Rights and Privacy Act (FERPA) and Illinois's Student Online Personal Protection Act (SOPPA). Participants will learn how FERPA's definition of educational records intersects with SOPPA's covered information, how to handle formal parent inspection and record requests, and how to govern "school official" exceptions when sharing data with third-party vendors. The workshop covers establishing app-vetting workflows, enforcing administrative access controls, navigating the Student Data Privacy Consortium (SDPC) database, generating Exhibit Es, and preparing for updates like NDPA 2.3, Registry 2.0, and multi-state agreements through The Education Cooperative (TEC).

2

Cybersecurity & Risk Management

Raising security posture with the staff, budget, and time districts actually have

Quick Wins in Cybersecurity

Keynote**Presentation****Breakout****60–90 min**

For: Technology Directors, Superintendents, District Administrators

Discover scalable, high-impact security solutions designed specifically for school districts of any size. This session introduces simple, actionable strategies that rapidly raise your district's security posture without requiring enterprise-level budgets or dedicated security teams.

KEY TAKEAWAYS

- Practical, scalable cybersecurity solutions tailored to school size
- Actionable steps to immediately harden defenses across district systems
- Peer collaboration and real-world implementation insights

Tiered Security: Classifying Job Roles and Access

Presentation**Breakout****40–60 min**

For: Tech Leaders, Network Administrators, HR & Finance Leaders

Treating a general staff login with the same security protocols as a system administrator creates unnecessary friction for some and dangerous vulnerabilities for others. Tiered Security offers a strategic framework for identifying and fortifying high-risk roles within your organization.

KEY TAKEAWAYS

- Transitioning from a flat security model to a risk-based, tiered structure
- Methodology for role classification based on organizational impact
- Targeting advanced MFA, auditing, and resources where they matter most

Credential Discussion: Passwords, MFA, and Password Managers

Presentation**Breakout****40–60 min**

For: District Staff, Tech Administrators, School Leadership

Passwords remain a primary attack vector for school networks. This session takes an honest look at why traditional password habits fail and provides actionable guidance on implementing modern identity security, including Multi-Factor Authentication (MFA) and enterprise password managers.

KEY TAKEAWAYS

- Understanding modern password attack methodologies
- Implementing current industry best practices for identity management
- Selecting and deploying effective technologies to protect credentials

Business Continuity and Incident Response: A Holistic Overview

Keynote**Presentation****Breakout****60–90 min**

For: Superintendents, School Boards, CTOs, Operations Directors

True organizational resilience lies in the synchronicity between Incident Response (IR) and Business Continuity (BC). While IR focuses on stopping a threat, BC ensures classroom doors stay open and district operations continue. This session provides a unified roadmap to prepare for and survive digital emergencies.

KEY TAKEAWAYS

- Aligning technical response with operational business continuity
- Building a framework that protects both student data and instruction
- Utilizing National Incident Management System (NIMS) concepts in K-12 IR

After Action Review: Learning from Incident Response

Presentation**Breakout****60–90 min**

For: Incident Response Teams, District Leadership, IT Staff

When a major incident or outage concludes, the critical work of learning begins. This session introduces the After Action Review (AAR)—a structured, low-stress methodology designed to evaluate responses without fault or blame, turning crises into blueprints for future resilience.

KEY TAKEAWAYS

- Establishing psychological safety during post-incident reviews
- Driving meaningful policy and procedural updates following an incident
- Moving beyond "what happened" to uncover "why it happened"

Low-Load, High-Impact: Teacher-Focused Cybersecurity Strategies

Presentation**Breakout****60–90 min**

For: District Leadership, IT Staff, Instructional Leadership, Teachers

K-12 teachers face heavy workloads, and complex cybersecurity mandates often lead to fatigue and risky workarounds. This interactive session shifts the focus from rigid IT policing to realistic, low-load teacher partnerships. Discover how to implement seamless classroom policies, frictionless micro-habits, and minimal-effort student routines that protect data without disrupting teaching time.

KEY TAKEAWAYS

- Audit and Redesign High-Friction Security Policies
- Deploy Ready-to-Use Classroom Integration Tools
- Implement Low-Load, High-Impact Training Frameworks

OAuth in the Open: How Everyday Google Workspace Admin Tools Expand Your District's Attack Surface

Presentation**Breakout****60–90 min**

For: District Leadership, IT Staff

A technical look at how the everyday tools K-12 IT teams use to manage Google Workspace at scale — GAM, CISA's ScubaGoggles security baseline scanner, and direct Admin SDK / API scripting — all rely on OAuth 2.0 credentials that, if over-scoped, forgotten, or stolen, can hand an attacker persistent, super-admin-equivalent access to an entire district's Google environment.

KEY TAKEAWAYS

- Identify how these tools authenticate and where credentials live
- Explain least-privilege violations and rights creep
- Assess consequences of credential theft

Securing the Google Admin Console

Presentation · 50 min**Hands-On Workshop · 90–120 min**

For: Google Workspace Administrators, System Administrators, Technology Directors

Google Workspace is a critical part of most K-12 technology environments, but inherited settings, excessive administrative privileges, third-party applications, and outdated security configurations can quietly increase district risk. This session provides a practical review of the Google Admin Console settings technology leaders should regularly evaluate to strengthen identity, access, data protection, and overall Workspace security.

50–Minute Presentation

Participants will explore the most important areas of the Google Admin Console from a security perspective, including Super Admin and delegated administrator access, 2-Step Verification, account security, third-party applications, OAuth and API access, external sharing, and security monitoring. The session concludes with a practical framework technology leaders can use to perform recurring reviews of their Google Workspace environment.

Hands-On Workshop — 90–120 Minutes

Participants will work directly within their own Google Workspace environment using a guided security review process. Attendees will examine administrator privileges, authentication policies, third-party applications, OAuth access, sharing controls, security alerts, and audit information. The workshop is designed to help technology leaders identify potential weaknesses and leave with a prioritized action plan for strengthening their district's Google Workspace security posture.

Cybersecurity & Data Privacy for K–12 Educators

Presentation**50 min**

For: K-12 Teachers, instructional staff, school administrators, support personnel

Schools are prime targets for cyberattacks, managing valuable student personally identifiable information (PII) on porous networks with limited IT resources. This session gives K-12 staff an eye-opening look into the current threat landscape—including AI-driven spear phishing, credential theft, and supply-chain vendor breaches that cause physical school closures and million-dollar recovery costs. Participants will examine real-world breach case studies, learn how federal (FERPA, COPPA) and state regulations (Illinois SOPPA) apply directly to classroom instruction, and gain practical rules for software vetting, AI prompt safety, credential hygiene, and immediate four-step incident response.

KEY TAKEAWAYS

- Understanding the shared responsibility for cybersecurity and data privacy between IT and all district staff
- Defensive digital safety habits: MFA, district login enforcement, acceptable risk management, AI prompt safety

3

Network & Technical Infrastructure

Finding structural weaknesses before they become outages

Network Segmentation for K–12: Stop Building a Flat Network

Presentation**Technical Workshop****60–90 min**

For: Network Engineers, System Administrators, Technology Directors

Flat school networks create severe security, operational, and performance risks. This practical, K-12 focused session demonstrates how districts can establish clear network boundaries to isolate traffic, improve troubleshooting, and enhance overall network security.

KEY TOPICS COVERED

- Risks associated with flat networks and benefits of VLAN segmentation
- Firewall rules, inter-VLAN communication, and access control
- Designing segments for Staff, Students, Guest, VoIP, Security Cameras, and IoT/Building Automation
- Wireless SSID design and network documentation standards

Technology Assessments: Finding Gaps Before They Become Problems

Presentation**Breakout****60 min**

For: Technology Directors, Superintendents, CSBOs / Business Managers

Examine the health of your district's technology operations before weaknesses trigger outages, breaches, or unbudgeted expenses. Drawing on real-world LTC Technology Assessment insights, this session provides practical evaluation frameworks and checklists for school leaders.

KEY TOPICS COVERED

- Evaluating network/wireless infrastructure, servers, and cloud environments
- Auditing device lifecycle, software licensing, backup, and disaster recovery
- Reviewing physical infrastructure, documentation, policies, and staffing model balance

4

Interactive Workshops & Keynotes

Hands-on simulations and conference keynotes

Understanding the Cyber Adversary with MITRE ATT&CK

Hands-On Tabletop Workshop**90–180 min**

For: Technology Teams, Cybersecurity Staff, Advanced Student Tech Groups

Step into an interactive, gamified simulation of cybersecurity defense! After learning the fundamentals of the MITRE ATT&CK framework, participants join Red (Attacker) or Blue (Defender) teams in a d20-based tabletop game to test strategic defense concepts in real time.

KEY TAKEAWAYS

- Deconstructing attacks into specific Tactics (why) and Techniques (how)
- Understanding defense-in-depth through hands-on gameplay
- Developing a strategic mindset for threat anticipation and mitigation

Decoding the Adversary: MITRE ATT&CK in Modern Incident Response

Keynote

Breakout

60–90 min

For: Tech Leaders, System Administrators, District Leadership

Learn how incident response teams use the MITRE ATT&CK framework to decode cyber criminal behavior. Through "cyber autopsies" of famous real-world breaches, attendees trace attacker steps from initial phishing vectors to data exfiltration and explore threat-informed defense.

KEY TAKEAWAYS

- Distinguishing between attacker tactics and execution techniques
- Understanding attack chains through real-world incident analysis
- Applying threat-informed defense concepts to district networks

Keynote: The Innovator and His Origin

Keynote

Presentation

40–60 min

For: All Educators, Technology Conferences, Administrative Summits

Behind every breakthrough lies a foundation laid by an educator. Drawing inspiration from Henry Ford's Greenfield Village—where Ford placed his favorite teacher's home at the center of innovation history—this inspiring keynote celebrates teachers as the ultimate architects of the future.

KEY TAKEAWAYS

- Honoring the student-teacher relationship as the core of innovation
- Recognizing the long-term impact of supportive educators on future visionaries
- Inspiring educational technology teams to keep student success at the heart of technical work

5

Specialized Technical Sessions

Deep dives for the administrators running the systems

Google Workspace for Education Administration & Security

Workshop

Technical Session

60–90 min

For: Google Workspace Administrators, System Engineers, IT Directors

A deep dive into configuring and managing Google Workspace for Education. Learn essential policies, OU organizational structures, Chromebook management strategies, and security settings to safeguard student data and optimize tenant administration.

KEY TAKEAWAYS

- Google Admin console best practices and security baselines
- Chrome OS deployment and OU management policies
- Data protection and student safety integrations

Practical AI Integration for K–12 Technology & Operational Leaders

Presentation

Interactive Workshop

60 min

For: Technology Directors, Instructional Tech Coordinators, Administrators

Explore actionable strategies for evaluating, implementing, and managing Artificial Intelligence tools within K-12 environments. Covers data privacy considerations, administrative workflows, and policy guidelines for responsible district adoption.

KEY TAKEAWAYS

- AI risk evaluation models and privacy considerations (SOPPA)
- Prompt engineering for IT and administrative workflows
- Developing sustainable district AI usage policies

K-12 Identity & Access Management (IAM) Essentials

Presentation**Breakout****60 min**

For: Network Engineers, System Administrators, Technology Directors

Modernize user onboarding, offboarding, and identity lifecycle automation across Student Information Systems (SIS), Active Directory / Entra ID, and cloud services. Reduce administrative overhead and security risks associated with stale accounts.

KEY TAKEAWAYS

- Automated provisioning and deprovisioning workflows
- Lifecycle management principles across hybrid identity environments
- Single Sign-On (SSO) and access control integration strategies

6 Session Quick-Reference Matrix

SESSION TITLE	LEAD AUDIENCE	FOCUS AREA	DURATION
The K-12 Tech Leader Annual Playbook	Directors / Coordinators	Leadership & Operations	60–90 min
From Technician to Tech Leader	New Directors / Admins	Career Growth & Management	60 min
The K-12 EdTech Leader Toolkit	All Tech Staff	Resources & Productivity	60–90 min
Bridging Tech & Teacher Comm.	IT Teams & Admins	Communication & Culture	60 min
Managing AI in Google Admin Console: What K-12 Admins Need to Know	IT Directors, System Administrators, Instructional Technology Leaders	Account/Domain Administration	50–120 min
Quick Wins in Cybersecurity	Tech Directors & Admins	Cybersecurity	60–90 min
Tiered Security	IT Admins & HR/Finance	Access Control & Risk	40–60 min
Credential Discussion & MFA	District Leadership & Staff	Security & Identity	40–60 min
Business Continuity & Incident Response	Superintendents & Tech Directors	Emergency Planning	60–90 min
After Action Review (AAR)	Incident & Leadership Teams	Post-Incident Strategy	60–90 min
Low-Load, High-Impact: Teacher-Focused Cybersecurity Strategies	District Leadership, IT Staff, Instructional Leadership, & Teachers	Cybersecurity & Data Privacy	60–90 min
OAuth in the Open: How Everyday Google Workspace Admin Tools Expand Your District's Attack Surface	Network Engineers & IT Directors	Access Control & Risk	60–90 min
Cybersecurity & Data Privacy for K-12 Educators	K-12 Educators, Instructional Staff, Administrators, Support Staff	Cybersecurity & Data Privacy	50 min
Network Segmentation for K-12	Network Engineers & Tech Directors	Network Infrastructure	60–90 min
Technology Assessments	CSBOs, Superintendents, Tech Directors	Audit & Strategic Planning	60 min
Cyber Adversary (d20 Tabletop Game)	Tech Teams & Advanced Students	Interactive Cybersecurity	90–180 min
Decoding the Adversary	District Leaders & Tech Staff	Incident Response	60–90 min
The Innovator and His Origin	All District Staff / Keynote	Inspiration & Leadership	40–60 min
Google Workspace Admin & Security	Google Admins & IT Staff	Cloud & Systems Admin	60–90 min
Practical AI Integration	Directors & Instructional Tech	AI Strategy & Governance	60 min
K-12 IAM Essentials	Network Engineers & IT Directors	Identity & Access Mgmt	60 min

BRING A SESSION TO YOUR DISTRICT

Let's talk about what your team needs.

Learn more about LTC Technology Services at www.ltcillinois.org/techservices.