

TRAINING

IntelliGenesis LLC® delivers specialized technical training, hands-on exercises, and industry-standard certification courses to keep workforce skills current with ever-evolving tools and tradecraft. We work directly with customers and students to understand their training needs then develop custom training programs, curricula, and evaluations tailored to specific educational goals. Each of our Instructors and Curricula Developers have firsthand mission experience in their respective fields, enabling them to contribute nuanced insight into highly classified and technical subject matter, and the real-world application of classroom skills once students are back in mission spaces.



TRAINING SERVICES & CAPABILITIES

» [NATIONAL CRYPTOLOGIC UNIVERSITY \(NCU\) CERTIFIED TRAINERS](#)

Rigorous Instructor certification process ensures mastery of both technical course content and adult learning principles for the most effective delivery of course materials, whether in-person or virtual, synchronous or asynchronous. American Council of Education (ACE)-accredited courses allow students to gain college credits.

» [MISSION CAPABILITY TRAINING](#)

Technical and Mission-focused training programs to improve operational capabilities and readiness for analysts, developers, and engineers. Advanced tool and tradecraft training in a variety of technical fields: SIGINT, AI/ML and Data Science, Traffic Analysis, Network Collection/Exploitation, Threat Hunting, Malware Analysis, ICS/SCADA, Geospatial Information Systems (GIS), and more.

» [CUSTOM AI & CYBER CURRICULA](#)

High-demand training programs continuously updated to keep pace with ever-evolving technological advancements. Demystifying AI across the full spectrum of skill levels, from new personnel just entering the industry to Technical SMEs Senior Executives/Political Appointees.

» [ICS/IoT SCADA TRAINING](#)

Hands-on cybersecurity training where students can make, break, and rebuild real-world critical infrastructure hardware and protocols. Combined Red/Blue Team exercises provide students with a cross-functional understanding of cyber-physical attacks. Portable, modular training kits give students a wide variety of real-world training scenarios: runway lights, power grids, traffic control systems, environmental/HVAC controls, manufacturing systems, and more.

» [THREAT HUNTING & CTFs](#)

State-of-the-art cyber ranges emulating cyber-physical, converged IT/OT environments paired with custom Capture the Flag exercises to train students on red/blue tactics, techniques, and procedures in realistic mission settings.

» [JOINT EXERCISE PLANNING](#)

Development and support for combatant command cybersecurity exercises, including cyberspace intelligence planning, cyber scenario development, opposing force planning, intelligence support scripting, and exercise event development into Joint Master Scenario Events Lists (JMSEL).

IGNUITY™ CURRICULUM DEVELOPMENT PROCESS



Drawing on years of expertise in instructional design and course development, IntelliGenesis has crafted IGnuity, an advanced curricula development process tailored to address the increasing demand for specialized tool and tradecraft training. By combining best practices from leading training methodologies, such as Instructional System Design (ISD) and the ADDIE model (Analyze, Design, Develop, Implement, Evaluate), with insights collected from our instructors' extensive teaching experience, IGnuity expedites the development of course materials while also reducing the need for edits and rework. This results in a top-tier curricula development process capable of producing comprehensive training programs and materials, including detailed curricula, course modules, training materials, student activities, assessment materials and more, for both new courses and updates to existing materials.

CURRENT OFFERINGS

» [SIGINT TRADECRAFT TRAINING](#)

National Cryptologic University (NCU) Accredited Instructors

- ANSK- Analytic Skills
- CRSK- Critical Thinking Skills
- DATA- Data Science
- GISA- Geospatial Information Systems Analysis
- NETA- Network Exploitation and Target Analytics
- NETC- Network Collection Management
- RPTG- Reporting
- SASMO- SIGINT Analysis Support to Military Operations
- SIGC- Signals Analysis COMINT
- SIGE- Signals Analysis ELINT
- SIGF- Signals Analysis FISINT
- SIGP- Signals Analysis PROFORMA

» [CAPTURE THE FLAG \(CTF\), PLATFORMS, AND RANGES](#)

State of the Art Cyber Ranges for Training and Research

- Our cyber-physical ranges are converged IT/OT environments combining virtual capabilities with physical assets. These real-world scenarios allow students to apply technical skills learned in the classroom and see their downrange effects in real-time.
- We work closely with customers to understand their needs and tailor Capture the Flag Campaigns to their specific missions, environments, and training goals.
- Our CTF and cyber ranges are hosted by within our IG Labs Division and available onsite or virtually.

» [SPECIALIZED TRAINING](#)

Mission and Technical Training to Increase Operational Readiness

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> • Demystifying AI/ML • Applied Data Science • Intro to Python for Applied Data Science • Intro to Industrial Control Systems (ICS) • Threat Hunting with Jupyter • Malware Analysis • Basic Linux Operations including Command Line Knowledge and Bash • Scripting • Threat Hunting with Jupyter | <ul style="list-style-type: none"> • Introduction to Data • Introduction to Artificial Intelligence • Introduction to Machine Learning • Introduction to Python • Introduction to Jupyter • Introduction to NVIDIA SDK • Introduction to GPU, DPU and CPU for AI • APIs and Visualizing Open-Source Data • AI Ethics • Large Language Models | <ul style="list-style-type: none"> • Practical Data Science and AI • Automating Analyst Workflows • Running Container Operations • Threat Hunting with Jupyter • Elastic's ELK Stack Introduction • Introduction to Malware Analysis • Pen Testing with Docker and Kali Linux • Open-Source Tools for Cyber Threat Intel • Cyber Threat Intel Tradecraft • Automating Analyst Workflows |
|--|--|---|