PURDUE UNIVERSITY®

TRAIN TODAY.
PREPARE FOR TOMORROW.

APPLIED CYBERSECURITY ESSENTIALS

COMPREHENSIVE CYBER EDUCATION FOR WORKING PROFESSIONALS

A.C.E.

APPLIED CYBERSECURITY ESSENTIALS BADGE SERIES

The **Applied Cybersecurity Essentials Badge Series** offers a combination of theoretical concepts and practical skills to combat ever-evolving network threats. Expect participants to have an immersive experience as they discover new ways intruders can access your information and how best to defend against them. From first-day freshers to experienced veterans of the field, and from front-line defense through the C-suite, the **Applied Cybersecurity Essentials Badge Series** covers all of your cybersecurity training needs.

EARN BADGES TO COMPLETE A SERIES IN CLASSROOM, ONLINE, OR BOTH

Range Badges, signified with a crosshair, are earned by participating in and passing one of our coached range classes. In range classes, the Range Master will provide minimal lecture and is there to help your team progress through the scenarios.

Classroom Badges, signified with a shield, are a more traditional Purdue instructed approach bringing both theory and application into the training environment.

X Badge, or Custom Badge, is signified with crosshairs atop a shield. This badge is used when cyber range courses are further enhanced by traditional Purdue classroom instruction and curriculum.

CUSTOMIZE YOUR LEARNING EXPERIENCE

Enhance your Cyber Range experience by adding custom Purdue curriculum and instructional time from our cybersecurity experts.

PURDUE UNIVERSITY® | cyberTAP

Powered by
CYBERBIT
PROTECTING A NEW DIMENSION

Applied Cybersecurity Essentials Series

The A.C.E. Series focuses on practical cybersecurity knowledge, skills, and abilities: in person, online, or hybrid.

Cybersecurity Fundamentals

Learn the basic principles of cybersecurity, risk management, security programs and architecture, application security, cryptography, and identity access management.

Duration: 4 weeks

Enterprise Security

Learn about network security fundamentals, enterprise concepts, cloud concepts, industrial control systems security, and IoT security.

Duration: 4 weeks

Vulnerability Management

Learn about vulnerability concepts and analysis, the basics of penetration testing, and practices in incident response.

Duration: 4 weeks

Ethical Hacking

Learn the basics of ethical hacking, network and systems enumeration, vulnerability scanning, system attacks, sniffing, and social engineering.

Duration: 4 weeks

A.C.E.-D Defender Series

A.C.E.-D Series utilizes the Purdue Cyber Range to focus on real-world defensive cybersecurity skills and mitigation.

Security Operations 1

Learn security operations and defensive security fundamentals in our introductory SOC1 badge. Topics include defending Windows and Linux web servers.

Duration: 1.5 days

Security Operations 2

Continue learning key defensive security concepts including Linux and Windows log management, scripting, packet sniffing, and more.

Duration: 1.5 days

Security Operations 3

Continue learning key defensive security concepts including advanced Linux log management, Windows and Linux forensics, and MS SQL technologies.

Duration: 2 days

Security Operations 4

Finish key learning objectives of defensive security concepts including advanced Linux and Windows forensics and logging, reverse engineering techniques

Duration: 2 days

A.C.E.-R Raider Series

The A.C.E.-R Series focuses on real-world application of offensive cybersecurity skills and penetration testing.

Red Team Tactics

Practice the basic offensive cybersecurity skills with a set of basic penetration testing scenarios.

Expected Duration: 2 days

Advanced Red Team Tactics

Practice advanced offensive cybersecurity skills with a complex set of scenarios.

Expected Duration: 3 days

WAR GAMES

Shall we play a game? **Pit your teams against each other as they practice offensive and defensive cyber security skills. Ask about custom war games based on more than 20 scenarios.**

To inquire, contact:
Mat Trampski, mtrampsk@purdue.edu / (765) 494-1049
Doug Rapp, rapp1@purdue.edu / (260) 402-7317

PURDUE UNIVERSITY | cyberTAP