

CYB003X Building Your Cybersecurity Tool Kit Syllabus

Course Description

Building Your Cybersecurity Tool Kit is the third course in the Introduction to Cybersecurity UWashingtonX ProX series. If taken in the series, this course extends the knowledge base of core cyber security principles in historical context for those perhaps seeking a career path in cybersecurity.

Technologies are always defeatable. If you own an information asset that's valuable enough to the right adversary, it's only a matter of time before there's a breach. Therefore, while today's technologies attempt to keep adversaries out, the sad fact is they will inevitably be defeated. That means the successful cybersecurity professional has an expanded arsenal in their toolkit that extends far beyond technical proficiency.

There are so many different pathways in cybersecurity for meaningful careers. The best ways to determine your ideal pathway is, first to find your passion; then to develop a clear understanding of what you would be doing daily in any particular job. Emphasis in the Professional Cybersecurity Toolkit is on the importance of continual learning while pursuing pathways in this dynamic career.

Learning Objectives:

- Identify what tools and rules are necessary to form today's Professional Cybersecurity toolkit;
- Match appropriate tools to different purposes in the cybersecurity management process;
- Synthesize insights gained in course exploration of toolkit skill sets, working toward self-evaluation of talents and interests aligned to cybersecurity's array of roles

Prerequisites

There are no required prerequisites other than curiosity and interest in Cybersecurity. **However, CYB001x Introduction to Cybersecurity and CYB002 The CISO's View together provide a good foundation.** This is an introductory-level course.

Earning a Verified Certificate

If you have chosen to become a Verified certificate student, and achieve a passing grade of at least 70%, you will earn a Verified Certificate. These verified certificates indicate that you have successfully completed the course, but will not include a specific grade. Many students add their certificates to their resumé, CV, or LinkedIn profile to demonstrate mastery of a given subject area to potential employers. Certificates are delivered online through your dashboard on edx.org.

We urge you to consider the [Verified Certificate option](#) - you have limited time to become a Verified Certificate student. See the [edX FAQ](#) for more details on certificates.

Time Commitment and Due Dates

This course is self-paced; learners can expect to spend about **2 to 5 hours** per weekly topic or lesson engaging with the course materials.

This is a self-paced course with no due dates. However, you must complete all assignments before the course end date.

Certification

This course is the second of four courses in the edX certificate series on Essentials of Cybersecurity. The other courses are:

- CYB001X: Introduction to Cybersecurity
- CYB002X: Cybersecurity: the CISO's View
- CYB004X: Finding your Cybersecurity Career Path

CYB003X Building Your Cybersecurity Tool Kit

Learners may take these courses in any sequence. A verified learner receives a certificate for successful completion of each course taken. An additional certificate in Essentials of Cybersecurity is issued to learners who successfully complete all four courses in the series.

See edX's [Verified Certificates](#) for more information.

Course Materials

*All required materials are **included** in the weekly or lesson course pages.*

Academic Policies

Grading Policy

To pass this course with a verified certificate, all learners must earn a minimum of 70% total for the graded course activities.

Academic Honesty

edX expect students to participate with academic integrity. Honesty and original work is expected. Full citations for information shared that is not student-generated is also expected.

Course Activities

Discussion Forums

Etiquette

All learners are expected to engage in respectful dialogue in the public discussion forums.

Participation Expectation

The discussion forums in this course provide an additional learning space to practice relevant discourse on the course topics.

Knowledge Checks

Following course content, brief auto-graded questions (some with feedback) may appear that focus the learner on specific concepts or terminology. These knowledge checks are part of the graded course activities.

Peer Interaction

Peer Assessment

Other learners in the course score peer-graded activities with a rubric based on understanding of the course content.

About the Course Developer

Barbara Endicott-Popovsky

Barbara Endicott-Popovsky is the director of the Center for Information Assurance and Cybersecurity. She also teaches cybersecurity in several University of Washington programs.

Endicott-Popovsky is a member of several national committees shaping cybersecurity education. She earned her doctoral degree from the Center for Secure and Dependable Systems in the Department of Computer Science at the University of Idaho.