



## WASTC 2019 Faculty Development Weeks

# Python, Powershell & Scripting

**Dates:** In Person, June 10-14, 2019, Cabrillo College, Aptos CA

**Target Audience:** This course is for you if you are ...

- College/university faculty who teach cybersecurity
- Secondary school teachers who teach computer programming, ICT, or a related subject

### Workshop Overview (two courses in one):

**Scripting for Cybersecurity for Powershell** Description: This course will introduce PowerShell for cyber security professionals. The Microsoft Windows PowerShell is an evolution of the DOS command line and scripting environment. It can be used to automate repetitive tasks, scheduling task; processes acting on many files at once; and configuring Windows components and services. PowerShell also supports complex decision making, connecting to a wide variety of data sources, and even building graphical user interfaces. The instructor will introduce several concepts and commands and share a series of labs that are now available through NDG and CSSIA.

**Scripting for Cybersecurity for Python** Description: This course in Python programming provides the knowledge and training to develop and maintain effective Python programs/scripts. Participants will learn to create Python scripts using functions, modules, classes, and much more as part of Python's object-orientated paradigm. Participants will learn how to utilize Python to create scripts that manipulate data, automate tasks, perform error handling, and store and retrieve data. The class will provide hands on exercises to reinforce learning and develop real competency. The key concepts covered in this course include: web recon, port scanning, and packet sniffing, the instructor will introduce several concepts and commands and share a series of labs that are now available through NDG and CSSIA.



**Instructor:** Michael Masino is the Information Security Program Director at Madison Area Technical College. Michael has developed numerous courses in Information Technology and Cyber Security. He developed several of the labs that will be used in this workshop. Michael holds several industry certifications including: GIAC Certified UNIX Security Administrator (GCUX) GIAC Certified UNIX Security Administrator (GCUX) GIAC Python Coder (GPYC) GIAC Penetration Tester (GPEN) GIAC Certified Intrusion Analyst (GCIA) GIAC Certified Forensic Analyst (GCFA) GIAC Advisory Board

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