

NISTCSF.COM

NIST Cybersecurity Workforce Framework Training & Certification Programs

> Rick Lemieux itSM Solutions LLC 31 South Talbert Blvd. #295 Lexington, NC 27292 USA 401-764-0720 Fax – 401 764-0747

NISTCSF.COM - NIST Cybersecurity Workforce Framework Training Solutions

Introduction

In February 2013, President Obama issued Executive Order 13636, "Improving Critical Infrastructure Cybersecurity," which called on the Department of Commerce's National Institute of Standards and Technology (NIST) to develop a voluntary risk-based Cybersecurity Framework for the nation's critical infrastructure—that is, a set of industry standards and best practices to help organizations identify, assess, and manage cybersecurity risks. These 16 critical infrastructure sectors whose assets, systems, and networks, whether physical or virtual, are considered so vital to the United States that their incapacitation or destruction would have a debilitating effect on security, national economic security, national public health or safety, or any combination thereof. NIST issued the resulting Framework in February 2014. The framework has now been adopted by commercial enterprises and 28 other countries across the world as its cybersecurity standard.

Our training initiative is tied too Imperative #4 of the recently released Presidential Cybersecurity commission report to build cybersecurity workforce capabilities across the nation's critical infrastructure sectors.

Currently, the cybersecurity sector is understaffed despite high demand, and the Commission predicts that the economy will need 100,000 new cyber-sector employees by 2020. To meet that demand, the Commission is advocating Federal, State and Local grants, apprenticeship programs, rotational programs, early education, and support for college students and businesses investing in this field. They are also promoting the use of H1B monies companies pay to bring in help from overseas to fund this program as well.

All trainings will be aligned to the recently released NICE Cybersecurity Workforce Framework (NCWF). The National Initiative for Cybersecurity Education (NICE), led by the National Institute of Standards and Technology (NIST), is a partnership between government, academia, and the private sector focused on cybersecurity education, training, and workforce development. It's recently released special publication 800-181 - the NIST/NICE Cybersecurity Workforce Framework (NCWF) in addition to helping organizations educate, recruit, train and retain a qualified cybersecurity workforce, the NCWF will serve as a building block for the development of cybersecurity training standards and individual career planning.

Federal agencies will soon be using the NCWF to identify and qualify their cybersecurity workforce and integrators (physical and cybersecurity) as called for by the Federal Cybersecurity Workforce Assessment in the Cybersecurity Act of 2015.

It is our intent to stand up a series of NIST Cybersecurity Workforce Framework education centers across the nation (and eventually the globe) in partnership with other universities, tech schools, high schools, integrators, government and enterprise institutions. These organizations, in addition to offering training services will also have the option to stand up NIST CSF assessment, testing and continuous monitoring services or license them from an authorized itSM partner.

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NISTCSF.COM is a new program being brought to you by itSM Solutions LLC and Larry Wilson the Chief Information Security Officer in the University of Massachusetts President's office.

This program, which is aligned with the NCWF framework, enables organizations across the globe to acquire the knowledge and skills to design, build, test and manage a NCSF program based on a "controls factory" methodology created by Larry Wilson.

The controls factory concept is used to help organize the engineering, technical and business functions of a NIST cyber security program. The program is completely adaptable which means that each of the modules can easily be updated, replaced or modified with minimal impact on the overall solution. Organizations are free to choose the minimum set of controls its need to improve its framework profile and then over time incrementally adopt other controls that will take it to its identified target state. The factory approach allows for changes in the cybersecurity threat landscape, new vulnerabilities and the addition of incremental improvements while still keeping a focus on the critical assets and identities.

NCWF Training Program Overview

Th NCWF program is built around a three tier training model.

The first tier will be focused on teaching the knowledge and skills to build a NCSF program using Larry's control factory methodology. The program will consist of a Foundation training and certification program for cybersecurity and IT professionals who play a passive but need to know role in the program and a Practitioner training and certification program for those who are responsible for designing, building and managing the program. itSM is planning to add four class lecture based & lab workshops that will provide practitioners with the hands-on skills they need to become productive cybersecurity employee's upon graduation.

Beyond NCSF certification, the program will also offer the trainings required to sit for the professional INFOSEC examinations associated with the Specialty Areas and Work Roles outlined in the NCWF. These training include CISSP, CISA, CISA Security+, Vulnerability Assessment Manager, Risk Manager, Certified Ethical Hacker and 20 more specialty cybersecurity certifications.

Finally, the program will offer employers an online solution to train its employees in good cyber behavior. The employee awareness program will include modules covering topics in phishing, social engineering, online safety, social media, BYOD (Bring Your Own Device), removable media, password safety, personal information, information handling and remote and mobile working. Student assessment testing and reporting tools are available with this program.

The program has already been implemented at college campuses across Massachusetts and has won the following industry awards:

- **SANS** Person who made a difference in Cybersecurity, 2013
- ISE (Information Security Executives) Finalist for Executive of the Year for North America, 2013
- ISE Information Security Program of the Year for Higher Education & Government Category, 2013
- Security Magazine most influential cyber security professionals in North America, 2016

NCWF Training Programs

Our phase 1 go to market programs will include the following NCWF programs:

NCSF Foundation Certification Training

The NIST CSF Foundations Course outlines current security challenges and explains how organizations who implement a NIST Cybersecurity Program can mitigate these risks

This program prepares students to function successfully in NICE workforce framework entry, level cybersecurity work role positions.

Location of Training: Onsite or Online

Means of Instruction: Instructor Led Classroom or Virtual Classroom, Self Paced Video

Number of Hours: 8 (1 Day)

Credentials or Certificate Attained: Certificate of Completion, PDU's, CEU's, College Credits

Course Description & Outline: Can be found here

NCSF Practitioner Certification Training

The NIST CSF Practitioners Course explains in detail current security challenges, and how organizations design, build, maintain and test a comprehensive Cybersecurity Program and Risk Management Program based on the NIST Cybersecurity Framework. The NIST CSF Practitioners Course includes detailed capabilities organizations can use to build a comprehensive program.

This program prepares students to function successfully in NICE workforce framework entry, mid and advanced level cybersecurity work role positions, but also prepares students with the knowledge and skills to move on to the specialty roles (ethical hacker, vulnerability assessment manager etc.) also outlined in the NCWF.

Location of Training: Onsite or Online

Means of Instruction: Instructor Led Classroom or Virtual Classroom, Self Paced Video

Number of Hours: 24 (3 days)

Credentials or Certificate Attained: Certificate of Completion, PDU's, CEU's, College Credits

Course Description & Outline: Can be found here

NCWF Work Role or Specialty Certification Library

itSM's careeracademy.com certification training portal enables students be trained to sit for up to 25 NCWF work and specialty area professional certifications in Cybersecurity from CompTIA, ISACA, ISC², Mile2 and others.

Location of Training: Online

Means of Instruction: Self Paced Video

Number of Hours: Varies based on Program Selected

Credentials or Certificate Attained: Certificate of Completion, PDU's, CEU, College Credits

Course Description & Outline: Can be found here

NCWF Employee Cybersecurity Awareness Training

itSM's employee online cybersecurity awareness training program includes modules covering topics in phishing, social engineering, online safety, social media, BYOD (Bring Your Own Device), removable media, password safety, personal information, information handling and remote and mobile working. Student assessment testing and reporting tools are available with this program.

Location of Training: Online

Means of Instruction: Games, Animations and Simulations **Number of Hours:** Varies based on Program Selected

Credentials or Certificate Attained: Certificate of Completion

Course Description & Outline: Can be found here

Phase 2 of the program will include deliver of the following workshop and lab programs:

NCSF Engineering "Lecture-based" Cybersecurity Workshop and Lab

This workshop will include the design requirements and build specifications based on the 22 Framework Categories and 5 Core Functions of the NIST Cybersecurity Framework. The "Lecture-based" Workshop will be supplemented with a "Hands-on" workshop in partnership with vendors providing solutions for the operationalizing of the NIST CSF across an enterprise and its supply chain.

Location of Training: Onsite or Online

Means of Instruction: Instructor Led Classroom or Virtual Classroom, Self Paced Video

Number of Hours: To Be Determined

Credentials or Certificate Attained: Certificate of Completion, PDU's CEU's, College Credits

Course Description & Outline: Coming Soon

NCSF Technology "Lecture-based" Cybersecurity Workshop and Lab

This workshop will include the design requirements and build specifications based on the 20 Critical Security Controls. The "Lecture-based" Workshop will be supplemented with a "Hands-on" lab in partnership with vendors providing solutions for the management and monitoring of the 20 critical controls.

Location of Training: Onsite or Online

Means of Instruction: Instructor Led Classroom or Virtual Classroom, Self Paced Video

Number of Hours: To Be Determined

Credentials or Certificate Attained: Certificate of Completion, PDU's CEU's, College Credits

Course Description & Outline: Coming Soon

NCSF Business "Lecture-based" Cybersecurity Workshop and Lab

This workshop will be based on the ISO 27002 or NIST 800-171 standards. This workshop includes the design requirements and build specifications based on either ISO 27002 or NIST 800-171. The lecture based workshop will be supplemented by a hands on lab developed for this lecture – since this program

is more about business controls and not technical controls the hands-on component is more or less practice exercises and case studies.

Location of Training: Onsite or Online

Means of Instruction: Instructor Led Classroom or Virtual Classroom, Self Paced Video

Number of Hours: To Be Determined

Credentials or Certificate Attained: Certificate of Completion, PDU's CEU's, College Credits

Course Description & Outline: Coming Soon

NCSF Risk "Lecture-based" Cyber Risk Workshop and Lab

This workshop will be based on the Baldrige Excellence Framework and the FAIR Institute Cyber Risk methodology. This program will also include lab exercises.

Location of Training: Onsite or Online

Means of Instruction: Instructor Led Classroom or Virtual Classroom, Self Paced Video

Number of Hours: To Be Determined

Credentials or Certificate Attained: Certificate of Completion, PDU's CEU's, College Credits

Course Description & Outline: Coming Soon