



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/NICE Cybersecurity Workforce 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, associations, integrators, governments and enterprise institutions.

NISTCSF.COM

NISTCSF.COM is a new training program being brought to you by itSM Solutions LLC and Larry Wilson the CISO in the UMASS President's office. The program is designed to help organizations learn the knowledge and skills to design, build, test and manage a Cybersecurity program based on the [NIST Cybersecurity Framework \(NCSF\)](#).

The program also provides the training's to sit for the work role and specialty certifications outlined in the [NIST NICE Cybersecurity Workforce Framework](#) plus the employee awareness training's to learn good cyber behavior when working online.

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

Content is delivered as online videos with digital courseware and online mentoring. Clients have the option to use the content for in-class, online, self-study or blended learning training programs. All programs come with a certificates of completion, PDU's and CPE credits.

NCWF Training Program Overview

The NISTCSF.COM program is built around a three tier training model.

The first tier is focused on teaching the knowledge and skills to design, build, test and manage a NIST cybersecurity program based on a "controls factory" methodology created by Larry Wilson the CISO in the UMASS President's office. The controls factory methodology is designed to teach cybersecurity organizations how to 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. Programs include:

NCSF Foundation Certification Training

The 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 entry level 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 Practitioners Course explains in detail current security challenges, and how organizations design, build, test and manage a comprehensive Cybersecurity and Risk Management Program based on the NIST Cybersecurity Framework. This program prepares students to function successfully in NICE entry, mid and advanced level work role positions plus acquire the knowledge and skills to advance to the specialty roles (ethical hacker, vulnerability assessment manager etc.) outlined in the NICE framework.

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](#)

Phase 2 of the controls factory program will include four workshops and labs that will provide practitioners the practical experience they will need to become productive cybersecurity employee's upon graduation. Programs include:

NCSF Practitioner Engineering 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 Practitioner Technology 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 Practitioner Business Security 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 Practitioner Business 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

The second tier of training focuses on teaching the knowledge and skills to sit for the work role and specialty certifications outlined in the NIST/NICE Workforce Framework. Programs include:

NICE Work Role or Specialty Certification Training 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](#)

The third tier of training focuses on teaching employees the knowledge and skills to practice good cyber behavior when working online. Programs include:

Employee Cybersecurity Awareness Training

RESILIA™ Employee Awareness Training Programs cover 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. Programs are delivered as online games, simulations and animations. 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](#)