







Competency Based Apprenticeships

Using National Occupational Frameworks to Expand Competency Based Apprenticeship

Robert Lerman, PhD (blerman@urban.org)
Diane Auer Jones (djones@urban.org)

Innovativeapprenticeship.org

Types of Apprenticeships

Format

- Time-Based
- Competency-Based
- Hybrid

Scope

- Individual Employer/Sponsor
- National Guidelines
- National Standards

States – including territories

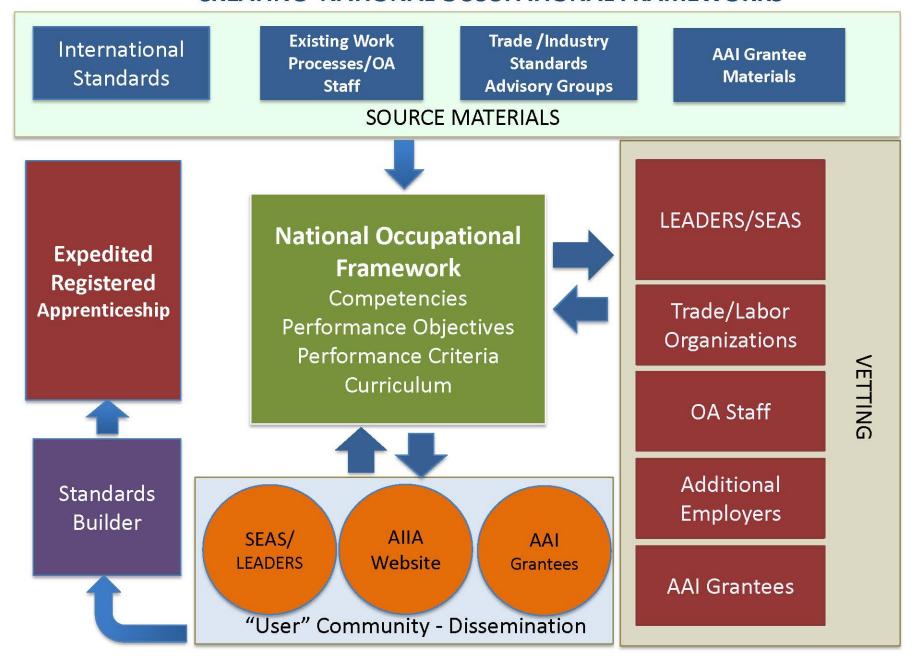
- 27 "Federal" States DOL Federal Representatives
- 27 "State" States State Apprenticeship Agency Representatives

Benefits of Competency-based Programs

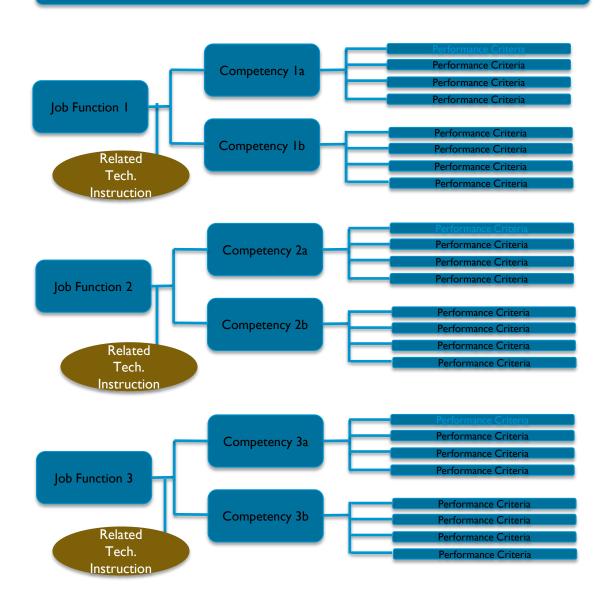
Benefits of Competency-based Programs

- Acknowledges what one already knows and can do
- Creates learning efficiencies (eliminates extraneous material)
- Pace aligns with an individual learner
- Potentially reduces time to productivity
- Focus is on filling gaps rather than repeating what is already known
- Validation of apprenticeship as a high quality learning opportunity
- Makes it easier to justify college credit for work experience
- Credential portability

CREATING NATIONAL OCCUPATIONAL FRAMEWORKS

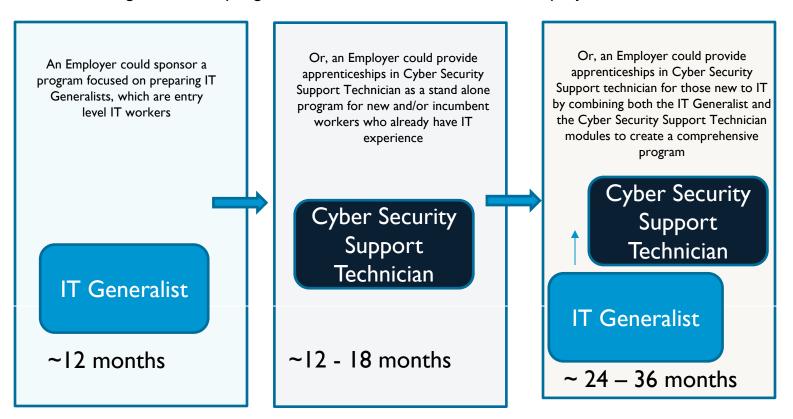


Job Purpose

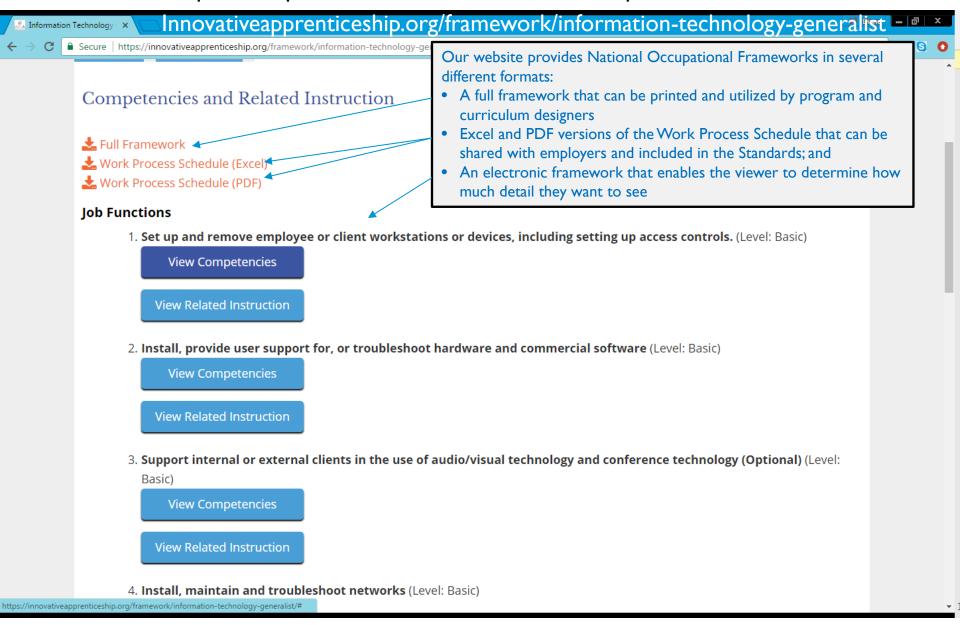


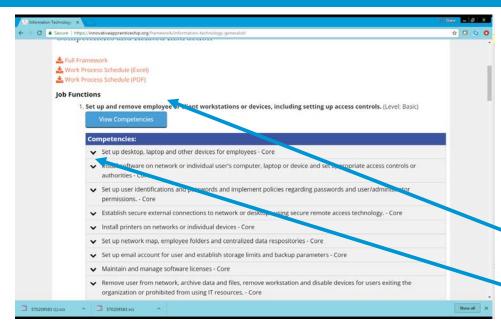
Stacking Credentials for Customization and Career Laddering

Our IT National Occupational Frameworks are designed to be used either as stand alone programs or as stacking credential programs, based on the worker and employer needs.



Our Web Portal provides public access to the National Occupational Frameworks



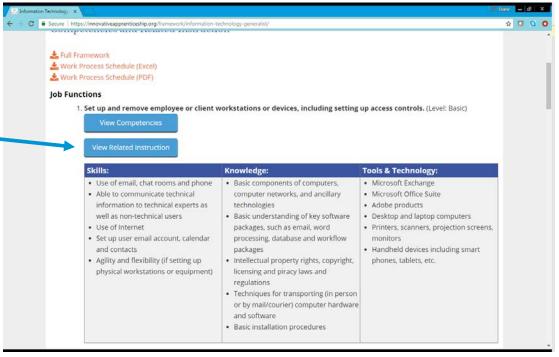


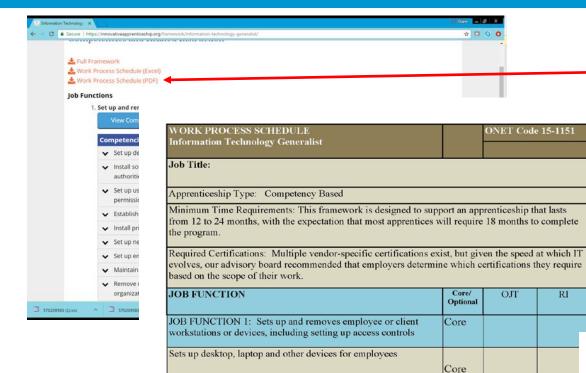
The Web-Based National Occupational Framework allows the viewer to see various levels of detail, depending upon their interests and needs.

Under each job function, there is a "View Competencies" button that, when clicked, reveals the competencies associated with each job function

Click the arrow next to each competency to view related performance criteria

Under each job function, there is also a "View Related Instruction" button that, when clicked, reveals the competencies associated with each job function





Installs software on network or individual users' computers, laptops or devices and sets appropriate access controls or

Sets up user identifications and passwords and implements

using secure remote access technology

Maintains and manages software licenses

Installs printers on networks or individual devices

policies regarding passwords and user/administrator permissions

Establishes secure external connections to network or desktops

Sets up network map, employee folders and centralized data

Sets up email account for users and establishes storage limits and

Removes users from network, archives data and files, removes

Uses FAQ's or other job aids to troubleshoot hardware or software

workstations and disables devices for users exiting the

JOB FUNCTION 2: Installs, provides user support for, or

organization or prohibited from using IT resources

troubleshoots hardware and commercial software

authorities

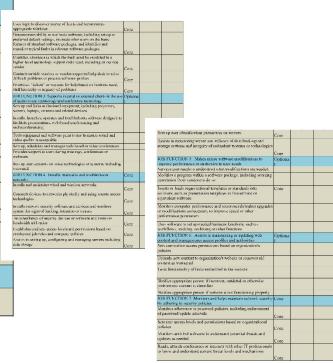
backup parameters

faults

The Work Process Schedule outlines the Job Functions and Skills around which the program is designed and apprentices are assessed. This document can be submitted as part of the Registration Application (the Standard).

RI

Core



Year One Frameworks

(occupational frameworks are in various stages of development)

Healthcare

Medical Assistant

Community Health Worker

Medical coder (AHIMA)

Pharmacy technician

Transportation (TLC)

Bus mechanic

Long Haul Truck Driver

Motor Coach Operator

Energy

Energy Line Worker

Advanced Manufacturing

CNC Operator

Mechatronics (M-S AMC)

Information Technology (AAI)

IT Generalist

Software developer

Cyber Security Analyst

Year Two Frameworks

Hospitality and Culinary

Cook/chef

Tour guide

Transportation (with TLC)

Signal Repair Technician

Railcar Mechanic

Information Technology

Programmer/App developer

Medical/Allied Health

Surgical technician

Sterile supply technician

Several Healthcare IT

occupations (with AHIMA)

Advanced Manufacturing

Industrial Maintenance

Technician

CNC operator – milling &

turning