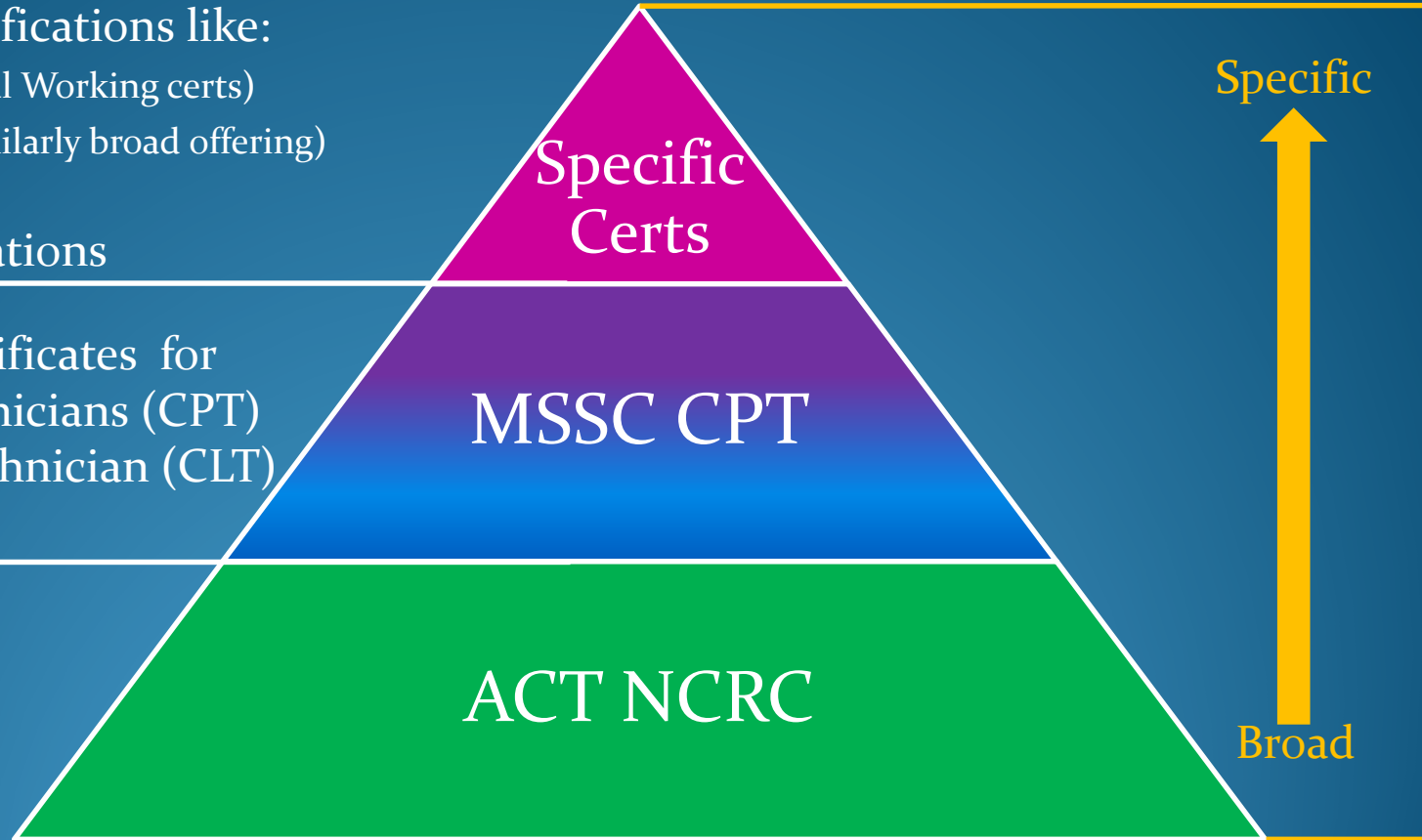


# Nationally Recognized Certificate Scenario

Specific skill certifications like:

- NIMS (52 Metal Working certs)
- AWS (has a similarly broad offering)
- APICS CPIM
- PMI Certifications

MSSC offers Certificates for  
Production Technicians (CPT)  
and Logistics Technician (CLT)



ACT WorkKeys offers a National Career Readiness Certificate (NCRC) awarded at the Bronze, Silver, Gold and Platinum levels based on results on the ACT WorkKeys tests

# ACT WorkKeys NCRC



99%



93%



67%



16%

## ACT National Career Readiness Certificate (NCRC)

ACT's National Career Readiness Certificate (NCRC) is a portable credential that demonstrates achievement and a certain level of workplace employability skills in Applied Mathematics, and Locating Information, and Reading for Information. In the future, ACT Career Credentials powered by ACT WorkKeys is an expanding program that will offer certifications in other areas.

Individuals can earn the NCRC by taking three [WorkKeys](#)® assessments:

- Applied Mathematics
- Locating Information
- Reading for Information

WorkKeys assessments measure "real world" skills that employers believe are critical to job success. Test questions are based on situations in the everyday work world.

Combining measures of cognitive skills with measures of work-related behaviors—or [soft skills](#)—brings even greater accuracy to predictions about an individual's success at work or in training. In addition to the cognitive skills listed above, the [NCRC Plus](#) ranks individuals in the following soft skills categories:

- Work Discipline: Productivity and dependability
- Teamwork: Tolerance, communication, and attitude
- Customer Service Orientation: Interpersonal skills and perseverance
- Managerial Potential: Persuasion, enthusiasm, and problem solving

NCRC offers the efficient matching of talent with work—which helps people find great jobs, companies find skilled workers, and our nation's economy grow and prosper. Launched in 2006, today more than 1.7 million certificates have been issued and more than 40 states have statewide or regional certificate programs.

# Detail of MSSC CPT Certification



## CERTIFIED PRODUCTION TECHNICIAN CRITICAL PRODUCTION FUNCTIONS COVERED BY MSSC COURSES AND ASSESSMENTS:

The Manufacturing Skill Standards Council (MSSC) credentialing system leading to a CPT covers the four critical production functions, as defined by MSSC's industry-led, nationally validated skills standards, common to all sectors of manufacturing: Safety, Quality & Continuous Improvement, Manufacturing Processes & Production, and Maintenance Awareness. Each area is addressed with a separate assessment. MSSC training and assessments are organized around those four modules. An individual can earn a "Certificate" if they pass one or more assessments. However, they must pass all four assessments to earn the full "CPT" certification. MSSC strongly recommends that individuals be at the 9<sup>th</sup> grade level of math and 10<sup>th</sup> grade level of English before attempting MSSC courses and assessments. The four critical functions and their related key activities are described below:

### SAFETY

1. Work in a Safe and Productive Manufacturing Workplace
2. Perform safety and environmental inspections
3. Perform emergency drills and participate in emergency teams
4. Identify unsafe conditions and take corrective action
5. Provide safety orientation for all employees
6. Train personnel to use equipment safely
7. Suggest processes and procedures that support safety of work environment
8. Fulfill safety and health requirements for maintenance, installation, and repair
9. Monitor safe equipment and operator performance
10. Utilize effective, safety-enhancing workplace practices

### MANUFACTURING PROCESSES & PRODUCTION

1. Identify customer needs
2. Determine resources available for the production process
3. Set up equipment for the production process
4. Set team production goals
5. Make job assignments
6. Coordinate work flow with team members and other work groups
7. Communicate production and material requirements and product specifications
8. Perform and monitor the process to make the product
9. Document product and process compliance with customer requirements
10. Prepare final product for shipping or distribution

### QUALITY PRACTICES & MEASUREMENT

1. Participate in periodic internal quality audit activities
2. Check calibration of gages and other data collection equipment
3. Suggest continuous improvements
4. Inspect materials and product/process at all stages to ensure they meet specifications
5. Document the results of quality tests
6. Communicate quality problems.
7. Take corrective actions to restore or maintain quality
8. Record process outcomes and trends
9. Identify fundamentals of blueprint reading
10. Use common measurement systems and precision measurement tools

### MAINTENANCE AWARENESS

1. Perform preventive maintenance and routine repair
2. Monitor indicators to ensure correct operations
3. Perform all housekeeping to maintain production schedule
4. Recognize potential maintenance issues with basic production systems, including knowledge of when to inform maintenance personnel about problems with:
  - Electrical systems
  - Pneumatic systems
  - Hydraulic systems
  - Machine automation systems
  - Lubrication processes
  - Bearings and couplings
  - Belts and chain drives

**NOTE:** MSSC assesses core understanding of the key work activities and core technical knowledge and skills needed in high-performance manufacturing, as defined by MSSC Production Skill Standards. Given online, MSSC Assessments also help measure basic computer, problem-solving and analytical skills and one's ability to apply knowledge to specific situations identified in the assessments. There are no experiential or hands-on requirements for MSSC certification as it is expected that individual employers will determine those requirements based upon their own specific needs. MSSC does not require that individuals take MSSC courses prior to testing.

# NIMS Machining Certifications

<p><b>Machining Level I</b> <i>Designed to meet entry-level requirements for on-the-job skills</i></p>	<p>Measurement, Materials &amp; Safety Job Planning, Benchwork &amp; Layout Manual Milling Skills I Turning Operations: Turning Between Centers Turning Operations: Turning Chucking Skills Grinding Skills I Drill Press Skills I CNC Turning: Programming Setup &amp; Operations CNC Milling: Programming Setup &amp; Operations CNC Turning: Operations CNC Milling: Operations</p>
<p><b>Machining Level II</b> <i>Designed to meet journey-level requirements for on-the-job skills</i></p>	<p>Manual Milling Skills II Turning II (manual) Drill Press Skills II Grinding Skills II CNC Milling Skills II CNC Turning Skills II EDM — Wire EDM — Plunge</p>
<p><b>Machining Level III</b> <i>Designed to meet master-level requirements for on-the-job skills</i></p>	<p>CNC Turning Skills III CNC Milling Skills III</p>



# Additional NIMS Certifications

- Metalforming Level I
- Stamping Level II & Level III
- Press Brake Level II & Level III
- Slide Forming Level II & Level III
- Screw Machining Level II & Level III
- Machine Building Level II & Level III
- Machine Maintenance Level II & level III
- Die Making Level II & Level III