



2022-2023 School Year College Career Workforce and Military Readiness Technical Documentation

Introduction

The College, Career, Workforce, and Military Readiness component (CCWM) is intended to measure how prepared the graduating class from a district or building is to go on to post-secondary education, enter the workforce, or join the armed forces. The readiness of a graduating class is estimated by calculating the number of students who engage in one or more of the experiences measured.

This component will not be rated or included in the overall rating for schools and districts until the 2024-2025 school year at the earliest.

Data collections and business rules have not been finalized for this component. All currently available data for each measure will be reported and a preliminary component percentage displayed but this data should be considered for informational purposes only.

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Data Availability

Due to a significant updating of this component not all the measures will have data available until the 2024-2025 school year. The following table details what measure will have data available and if that data will be shown on the report card web page or only made available as a download file.

Measure	Status on 2023 Report Card	Business Rule Status
Received an ACT Remediation Free score OR Received an SAT Remediation Free score	Final	Final
Received an Honors Diploma	Final	Final
Any combination of 3 or more Advanced Placement OR International Baccalaureate tests with qualifying scores	Final	Final
Earned at least 12 credential points in a single career field OR Holds a State recognized license	Final	Final
Earned twelve or more College Credits	Incomplete	Pending
Enlisted in the Military	Incomplete	Final
Has been accepted into an apprenticeship program Post high school	Incomplete	Final
Completed a Pre-Apprenticeship	Final	Final
Completed an Apprenticeship	Incomplete	Final
Achieved proficiency on three or more technical assessments in a single path	Incomplete	Pending
Obtained an Ohio Means Jobs Readiness Seal And has 250 hours of internship / Work based learning	Incomplete	Final

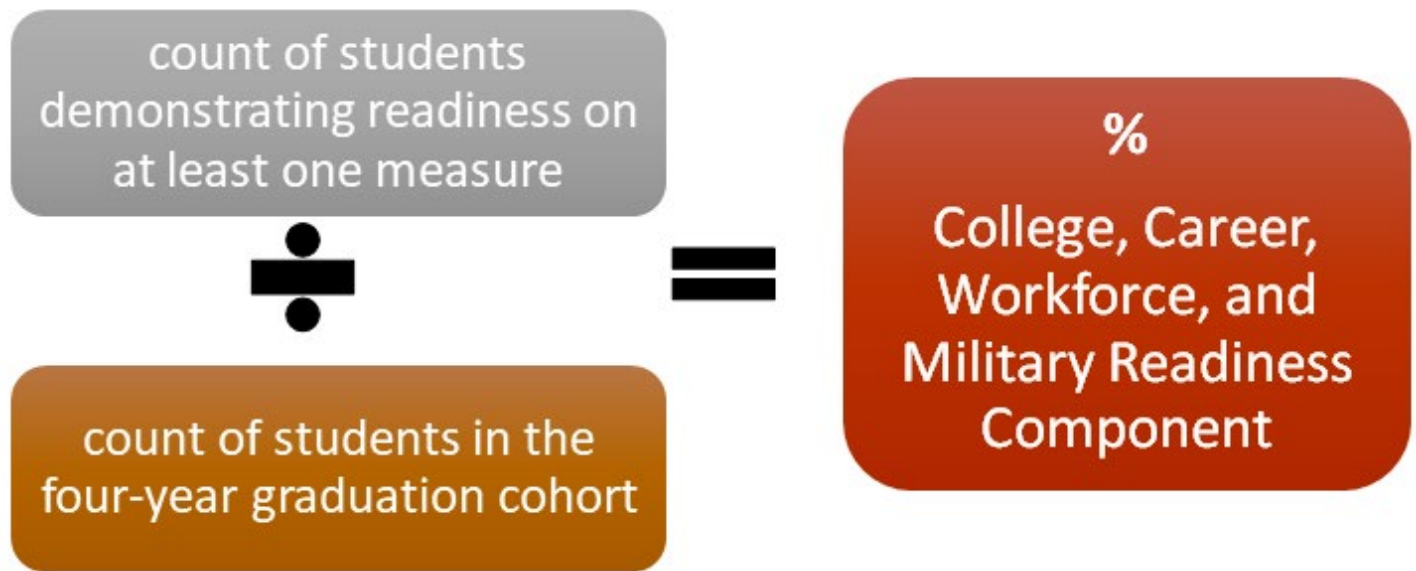
The 2022-2023 Report Card webpage displays all the measures included in the component with their associated percentages. This may result in displaying 0.0% for measures that have **incomplete data or pending business rules**. This does not mean that the school or district did not have students who met these measures. It only means that the data was not collected, or the business rules were not established and available when these charts were generated. As more data is collected, business rules are finalized and new report cards are released, these measures will start displaying data. With the goal to have all measures populated with data by the 2024-2025 report card release.

Overview of Component

This component includes measures that are used to capture ways that students demonstrate readiness for their next step after high school – whether that is post-secondary education, workforce, or joining the military. The calculation includes all students in the 2022 four-year graduation cohort since it is lagged a year like the graduation component. If a student demonstrates readiness on at least one of the available measures, the student counts in the numerator of the calculation. Each measure has specific thresholds or requirements in order for students to demonstrate readiness – and those are listed below in the measure business rules. A student only counts once in the numerator even if they demonstrate readiness on multiple measures.



Overview of Calculation



The number of students in the 2022 4-year graduating cohort that completed at least 1 readiness experience is divided by the total number of students in the 2022 4-year graduating cohort. The resulting percentage is the readiness component percentage that is evaluated to assign a component rating. Per state law, this component will not be rated until at least the 2024-2025 school year and therefore no rating cut scores are available and no ratings are assigned. The component percentage is reported for information purposes only.

Business Rules for Readiness Measures

MEASURE 1: REMEDIATION FREE SCORES SAT/ACT

Students demonstrate readiness on this measure by earning a remediation-free score or higher on the SAT or ACT. Remediation-free scores are set for each section of the SAT and ACT by the [Ohio Department of Higher Education](#). The remediation-free scores are:

SAT Remediation Free Score	
English	480
Reading	480
Mathematics	530

ACT Remediation Free Score	
English	18
Reading	22
Mathematics	22

Students are counted as meeting an SAT or ACT remediation free score if each individual section score is met at least once across multiple test attempts on the respective tests.

In order for students to be counted in the numerator for earning remediation-free score on the ACT, the following conditions must be met:

- Student is reported with an Assessment type code (FA060) = AC
- AND
- Assessment Area Code (FA205) = M, R, ENG (all assessment type codes must be reported)
- AND
- Score (FA240) >= 18 for English
- AND
- Score (FA240) >= 22 for Mathematics



AND

- Score (FA240) \geq 22 for Reading

AND

- Test Date (FA210) \leq 31OCT20[XX]:00:00:00 (indicating that the test was taken no later than October 31 of the cohort graduation year).

A student must be reported with a valid score at or above the remediation-free benchmark in **all sections** of the ACT listed above to be included in the numerator.

Note that the highest score from **all attempts** is used for the calculation. Therefore, a student who meets the required scores **across multiple attempts** is included.

In order for students to be counted in the numerator for earning remediation-free score on the SAT, the following conditions must be met:

- Student is reported with an Assessment type code (FA060) = SA

AND

- Assessment Area Code (FA205) = M, R (both assessment type codes must be reported)

AND

- Score (FA240) \geq 530 for Mathematics

AND

- Score (FA240) \geq 480 for Evidence-Based Reading and Writing

AND

- Test Date (FA210) \leq 31OCT20[XX]:00:00:00 (indicating that the test was taken no later than October 31 of the cohort graduation year).

If a student has reported scores for only one format of the SAT, that student must be reported with a valid score at or above the remediation-free benchmark in **all sections** of that format to be included in the numerator.

Note that the highest score from all attempts is used for the calculation. Therefore, a student that meets the required scores across multiple administrations is included. A student must meet the remediation-free standard on Math **and** the Reading **and** Writing standard.

MEASURE 2: HONORS DIPLOMA

Students demonstrate readiness on this measure by earning one of the six honors diploma options and meeting all associated [diploma requirements](#).

Ohio students can choose to pursue one of six honors diplomas:

1. [Academic Honors Diploma](#)
2. [International Baccalaureate Honors Diploma](#)
3. [Career Tech Honors Diploma](#)
4. [STEM Honors Diploma](#)
5. [Arts Honors Diploma](#)
6. [Social Science and Civic Engagement Honors Diploma](#)

Students in the 2022 four-year graduation cohort who earn an honors diploma are coded with FN100 Diploma Type Element = 2, 4, 5, 6, 7, or 8.

MEASURE 3: ADVANCED PLACEMENT (AP) AND INTERNATIONAL BACCALAUREATE (IB) CREDITS

When a student takes Advanced Placement (AP) or International Baccalaureate (IB) courses, they take an assessment at the end of the year that measures the student's knowledge of the course's academic content



standards. This measure reports which students in the 2022 graduation cohort received qualifying scores on at least three AP or IB exams. The exams can be a combination of both AP and IB types. AP and IB course availability is determined by each school and district.

Exam Type	Qualifying Scores
AP Exam	Score of 3 or higher
IB Exam	Score of 4 or higher

Advanced Placement (AP)

In order for a student’s exam results to be included toward the 3 exam scores needed to be counted in the numerator of the College, Career, Workforce, and Military Readiness Component as demonstrating readiness, students must be reported with:

Assessment type code (FA060) = AP

AND

Score (FA240) >= 3

AND

Test Date (FA210) <= 01OCT20[XX]:00:00:00 (indicating that the test was taken no later than October 1 of the cohort graduation year).

International Baccalaureate (IB)

In order for a student’s exam results to be included toward the 3 exam scores needed to be counted in the numerator of the College, Career, Workforce, and Military Readiness Component as demonstrating readiness, students must be reported with:

Assessment type code (FA060) = IB

AND

Score (FA240) >= 4

AND

Test Date (FA210) <= 01OCT20[XX]:00:00:00 (indicating that the test was taken no later than October 1 of the cohort graduation year).

MEASURE 4: TWELVE OR MORE INDUSTRY CREDENTIAL POINTS IN A SINGLE CAREER FIELD OR A STATE RECOGNIZED LICENSE

The process of earning an [industry-recognized credential](#) allows students to experience education *through work, about work and for work*. Ohio Revised Code section [3313.6114\(C\)\(1\)](#) outlines the inclusion of an industry-recognized credential diploma seal. An industry-recognized credential is a qualification of a specific set of competencies related to an industry or occupation. These credentials can take many different forms, including certificates, certifications, and licenses. To earn Ohio’s Industry-Recognized Credential Seal, students must do one of the following:

- Earn a 12-point industry-recognized credential; or
- Earn a group of credentials totaling 12 points in a single career field – as outlined here.

Students earning credentials totaling 12 points from the approved annual list, either a single credential worth 12 points or bundle of credentials totaling 12 points **within the same career field**, count towards this measure. Please see the annual [Approved Credential List](#) for credential codes and associated career fields. Credentials must be earned on or before January 1st.

In order to be included in the numerator for this calculation, students must be reported with:

Assessment type code (FA060) =GW

AND



Test Date (FA210) <= 01JAN20[XX]:00:00:00 (indicating that the credential was earned no later than January 1 of the Report Card publication year) .

AND

Score (FA240) not equal to 'N'

Career Fields and Credential Lists

- [Agriculture/Environmental Systems](#)
- [Arts and Communications](#)
- [Business, Marketing, and Finance](#)
- [Construction](#)
- [Education and Training](#)
- [Engineering](#)
- [Health](#)
- [Hospitality and Tourism](#)
- [Human Services](#)
- [Information Technology](#)
- [Law and Public Safety](#)
- [Manufacturing](#)
- [Transportation](#)

State recognized license

Students demonstrate readiness on this measure by obtaining a license approved under section [3313.6113](#) of the Ohio Revised Code that is issued by a state agency or board for practice in a vocation that requires an examination for issuance of that license. Section [3313.6114\(C\)\(1\)\(b\)](#) of the Ohio revised code outlines this inclusion. Both licenses and industry credentials are reported the same. However, state licenses are by default 12 points.

MEASURE 5: TWELVE OR MORE COLLEGE CREDITS

Students demonstrate readiness on this measure by earning twelve or more college credits through advanced standing programs, such as the [College Credit Plus](#) program under Chapter [3365](#). of the Revised Code, an early college high school program under section [3313.6013](#) of the Revised Code, and state-approved career-technical courses offered through dual enrollment or statewide articulation, that appear on a student's college transcript issued by the institution of higher education from which the student earned the college credit. Earned credits reported under division [3302.03\(D\)\(1\)\(j\)\(iii\)](#) of this section shall include credits that count toward the curriculum requirements established for completion of a degree, but shall not include any remedial or developmental credits. *Final business rules for this are in development and will be refined in future calculations.*

In order to receive credit for this measure, students must be reported with the following information on the Student Graduation – Core Summary Record:

- Dual enrollment credit earned (GC110) >= 12

MEASURE 6: ENLISTMENT IN THE MILITARY

This measure reports the percent of students who provide evidence of enlistment into the US Armed Forces. Ohio Revised Code section [3313.6114\(D\)\(j\)\(ix\)](#) outlines that only students that can provide evidence of enlistment can be included in this measure.

Evidence of Enlistment

To show evidence of enlistment, a student will:

- Provide to the district or school a signed copy of the Department of Defense Form Enlistment/Reenlistment (DD Form 4) enlistment contract.

All branches of service offer a Delayed Entry program, which allows current high school students to enlist and begin training after graduation. After taking and achieving the required score on the ASVAB and completing the oath of enlistment into the Delayed Training Program, each recruit signs and is provided a copy of his or her Department Defense Form Enlistment/Reenlistment (DD Form 4) enlistment contract. Students must submit this documentation to demonstrate evidence of enlistment.



It is recommended the student take the oath of enlistment and complete the enlistment process no later than April 30 of their senior (graduating) year. This date can be modified based on local policies, requirements, or deadlines for participation in graduation-related activities.

This is reported as part of the EMIS GQ records Graduation Pathway Programs with a program code of

- 520110 - Military–Intent to Enlist Student has documented intent to enlist in the military by sharing a completed Contract DD Form 4 with the district.

MEASURE 7: COMPLETION OF A PRE-APPRENTICESHIP

This measure reports the percent of students who complete a pre-apprenticeship program as reported by industry recognized credential CJ99. Pre-apprenticeship programs teach basic technical and job-readiness skills to help prepare participants for formal apprenticeship programs. High school students who complete an ApprenticeOhio-recognized pre-apprenticeship program are included in this measure. Pre-apprenticeship curricula for in-school youth are developed in collaboration with the Ohio Department of Education. Pre-apprenticeship curricula for out-of-school and adults are developed in collaboration with the Ohio Department of Education and/or the University System of Ohio.

This is reported as part of the EMIS FA records Industry Credential (GW) Assessment Area Codes with a program code of :

- CJ99 - Ohio State Apprenticeship Council Recognized Pre-Apprenticeship Program Certificate of Completion

MEASURE 8: ACCEPTANCE INTO AN APPRENTICESHIP PROGRAM POST HIGH SCHOOL

This measure reports the percent of students who are accepted into an apprenticeship program post high school as reported by program code 305016. An [apprentice](#) is someone 16 or older who is learning a career from a skilled worker and earning while they learn. Each program includes a minimum of 2,000 hours of on-the-job training and 144 hours of classroom instruction each year. Apprenticeships offer the chance to gain skills that will lead to a higher salary and great job opportunities. Apprenticeships are available in a variety of occupations, including health care, internet technology, advanced manufacturing, and construction. Once completed they receive a certificate that is recognized nationally. The completed program must be registered with ApprenticeOhio.

This is reported as part of the EMIS GQ records Work-Based Learning Programs with a program code of

- 305016 - Apprenticeship Acceptance - Providing evidence of acceptance into an apprenticeship program registered with the Ohio State Apprenticeship Council after high school that is restricted to participants eighteen years of age or older.

MEASURE 9: COMPLETION OF AN APPRENTICESHIP

This measure reports the percent of students who complete a registered apprenticeship as reported by program code 305018. This measure includes students who are 16 or older who completed their [apprenticeship program](#) by meeting the minimum annual 2,000 hours of on-the-job training and 144 hours of classroom instruction. They will have received a certificate of completion that is recognized nationally. The completed program must be registered with ApprenticeOhio.

This is reported as part of the EMIS GQ records Work-Based Learning Programs with a program code of

- 305018 - Apprenticeship Completion - Completing an apprenticeship registered with the Ohio State Apprenticeship Council in the student's chosen career field.



MEASURE 10: ACHIEVED PROFICIENCY ON THREE OR MORE TECHNICAL ASSESSMENTS IN A SINGLE PATH

The Technical Skill Attainment measure is aligned to the achievement component on Ohio's career technical planning district (CTPD) report card, as required by [Ohio Revised Code Section 3302.033](#). It includes students that earned a cumulative score of "proficient" or higher on three or more state technical assessments aligned with section [3313.903](#) of the Revised Code in a single career pathway. *Business rules have not yet been developed for this measure. Once created a summary will be included here in future versions of this document.*

MEASURE 11: OHIO MEANS JOBS READINESS SEAL AND HAS 250 HOURS INTERNSHIP/WORK BASED LEARNING

This measure reports the percent of students who earn the Ohio Mean Jobs Readiness Seal established under section [3313.6112](#) and are reported with at least 250 hours of work-based learning experience.

To earn the OhioMeansJobs-Readiness Seal, students must demonstrate certain professional skills required for success in the workplace. Students work with at least three experienced and trusted mentors who validate the demonstration of these skills in school, work, or the community. Review the [Guide for earning the OhioMeansJobs-Readiness Seal](#).

Federal law defines work-based learning as "sustained interactions with industry or community professionals in real workplace settings, to the extent practicable, or simulated environments at an educational institution that fosters in-depth, firsthand engagement with the tasks required in a given career field, that are aligned to curriculum and instruction."

For students who are not enrolled in CTE coursework, work-based learning experiences must be approved by the district's Business Advisory Council established under section [3313.82](#). For students who are enrolled in CTE coursework, work-based learning experiences must be aligned to the CTE pathway approved by the department in which the student is enrolled. Students should accumulate 250 hours of work-based learning experience; Students may accumulate hours across multiple types of work-based learning experiences beginning when students are identified as ninth graders. Review the [Guide for issuing credit for Work-Based Learning](#).

Experiences may include one or more of the following:

1. Off Site Placement and Internship
2. Apprenticeship & Pre-Apprenticeship
3. Remote/Virtual Placement
4. Entrepreneurship
5. School-Based Enterprise
6. Simulated Work Environment

This is reported as part of the EMIS GQ records with program codes of

- 510001 Ohio Means Jobs Program Code Student has earned the Ohio Means Jobs readiness seal.

AND

- 310499 Work-Based Learning 250-499 hrs OR 310500 Work-Based Learning 500+ hrs

Example Calculation

The following example runs through the calculation using a cohort of four students and a list of the measures each one has met or not met. This same process can be used to calculate the percentage for buildings or districts.



Measure	Met?	Student 1	Student 2	Student 3	Student 4
Received an ACT Remediation Free score OR Received an SAT Remediation Free score	Yes or No	Yes	No	No	No
Received an Honors Diploma	Yes or No	No	No	No	No
Any combination of 3 or more Advanced Placement OR International Baccalaureate tests with qualifying scores	Yes or No	Yes	No	No	Yes
Earned at least 12 credential points in a single career field OR Holds a State recognized license	Yes or No	No	Yes	No	No
Earned twelve or more College Career Plus Credits	Yes or No	No	No	No	No
Enlisted in the Military	Yes or No	No	No	No	No
Has been accepted into an apprenticeship program Post high school	Yes or No	No	No	No	No
Completed a Pre-Apprenticeship	Yes or No	No	No	No	No
Completed an Apprenticeship	Yes or No	No	Yes	No	No
Achieved proficiency on three or more technical assessments in a single path	Yes or No	No	No	No	No
Obtained an Ohio Means Jobs Readiness Seal And has 250 hours of internship / Work based learning	Yes or No	No	No	No	No
Count Student in the Numerator? (one or more measure met)					
		Yes	Yes	No	Yes

Three students met at least one of the readiness measures and will be included in the numerator, and there are four total students in the example cohort. So, the readiness percentage is calculated as

$$\frac{3}{4} = 75\%$$

Report Only Measures

These are measures that appear on the report card webpage but are not included in the component calculations.

ACT PARTICIPATION

This measures the percentage of the 4-year graduation cohort students that sat for the ACT test. In order for students to be counted in the numerator for ACT participation, the following conditions must be met:

- Student is reported with an Assessment type code (FA060) = AC
- AND
- Assessment Area Code (FA205) = M, R, ENG (all assessment type codes must be reported)
- AND
- Score (FA240) >= 1, and <= 36 (valid score ranges for the ACT)
- AND



- Test Date (FA210) <= 31OCT20[XX]:00:00:00 (indicating that the test was taken no later than October 31 of the cohort graduation year)

A student must be reported with a valid score in **all sections** of the ACT listed above to be counted as a participant and thus included in the numerator.

SAT PARTICIPATION

This measures the percentage of students that took the SAT test. A student must be reported with a valid score in **all sections** of either version of the SAT listed above to be included in the numerator. In order for students to be counted in the numerator for SAT participation, the following conditions must be met:

- Student is reported with an Assessment type code (FA060) = SA

AND

- Assessment Area Code (FA205) = M, R (both assessment type codes must be reported)

AND

- Score (FA240) >= 200, and <= 800 (valid score ranges for the SAT)

AND

- Test Date (FA210) <= 31OCT20[XX]:00:00:00 (indicating that the test was taken no earlier than March 1, 2016 and no later than October 31 of the cohort graduation year).

AP/IB PARTICIPATION

This measures the percentage of students that took Advanced Placement or International Baccalaureate assessments. AP or IB tests taken no later than October 31 of the cohort graduation year are included.