AZ Ed-Fi Suite v7.3, Data Standard v5.2: Student School Attendance Events (SY 25-26)

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Summary

This event entity represents the recording of whether a student is in attendance on a daily basis at their school.

Object Triggering Logic

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Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Schools (Pre-populated)
- Sessions
- Students

Dependent Resources (Downstream)

The following resources are dependent on this resource (must be sent after this resource):

- N/A

Error Log

The following are potential Tier 1 (Ed-Fi API generated) or custom (Campus generated) errors you may receive when posting, updating, or deleting this resource. Please keep in mind that the "Error Message" below may not match your exact error message.

Error Message	Possible Causes / How to Fix

Arizona Online Instruction (AOI) Positive Attendance

Object Triggering Logic

Action	Business Rule(s)
Post	Reports a record when the student has an Enrollment Local Service Type of *T: AOI* **AND** Calendar Attendance Type **or** Enrollment Attendance Type is *017: Positive* **AND** Attendance is entered in the Positive Attendance module. • Do not report a record if the any of the following exclusions are present: 　○ Student has 0 instructional minutes for the day 　○ Enrollment State Exclude 　○ Enrollment No Show 　○ Enrollment Grade Exclude from State Reporting 　○ Course does not have Positive Attendance checked. 　○ Calendar Exclude 　○ School Exclude • Reports attendance for each school the student has a Student School Association record for. • The Attendance date must fall on or between enrollment start and end dates to report. • A record will send for each distinct Date and Attendance State Code. • Positive Attendance must be turned on for this type of Attendance to be recorded and reported. This can be turned on in Positive Attendance Preferences. • Students reporting a Positive Attendance record should **NOT** be reporting a Negative Attendance record. You can only report one or the other even though the logic is set-up to accommodate both. This will cause errors when validating your data with the state if both are sent. 　○ Same for AOI and Non-AOI Attendance; Only one type should be sent for a given student. • If a student is reporting AOI Positive Attendance, all other attendance types will be ignored and **NOT** reported. • Positive Attendance will use the Duration calculated from the Time In / Time Out data entered into the SIS, even when this Duration exceeds the Course time. Ensure accurate data is being entered.

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Delete /Post Put	A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise. • When any of the following information on a student's Positive Attendance changes: ○ Time In ○ Time Out ○ Duration ○ Course • When any of the following information on the Enrollment changes: ○ Start Date ○ End Date ○ State Exclude ○ No Show
Delete	• When an enrollment is deleted. • When the positive attendance data is removed for the day. • When the student is now excluded in some way.

Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

• The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)

1	**attendanceEventCategoryDescriptor** (*string*)	*A code describing the attendance event, for example: Present Unexcused absence Excused absence Tardy.* • Reports **3** (In Attendance).	M	N/A	N/A	❌
2	**eventDate** (*date*)	*Date for this attendance event.* Reports the **Date** being reported.	M	Attendance	Attendance . date	✅
3	**schoolReference** (*reference*)	*A reference to the Schools resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Schools resource. • educationOrganizationId = **Ed-Fi School ID**	M	School Information	School .entityID	✅
4	**sessionReference** (*reference*)	*A reference to the Sessions resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Sessions resource.	M	N/A	N/A	✅

5	**studentReference** (*reference*)	A reference to the Students resource associated with the Student School Attendance Events being reported. Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✅
6	instructionalMinutes (*number*)	The amount of time, in minutes, that the student received instruction during the reported attendance period and the 'In Attendance' code is used Reports the sum of all Positive Attendance minutes entered for the student for the day reporting.	M	Positive Attendance	AttendanceUnit .startTime AttendanceUnit .endTime	EXT
7	arrivalTime	This is optional, does not report.	O	N/A	N/A	N/A
8	attendanceEventReason	This is optional, does not report.	O	N/A	N/A	N/A
9	departureTime	This is optional, does not report.	O	N/A	N/A	N/A
10	educationalEnvironmentDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
11	eventDuration	This is optional, does not report.	O	N/A	N/A	N/A
12	learningModalities	This is optional, does not report.	O	N/A	N/A	N/A
13	schoolAttendanceDuration	This is optional, does not report.	O	N/A	N/A	N/A

Non-AOI Positive Attendance

Object Triggering Logic

Action	Business Rule(s)
Post	Reports a record when the student has an Enrollment Local Service Type of something **OTHER THAN** *T: AOI* **AND** Calendar Attendance Type **or** Enrollment Attendance Type is *017: Positive.* • Do not report a record if the any of the following exclusions are present: 　○ Student has 0 instructional minutes for the day 　○ Enrollment State Exclude 　○ Enrollment No Show 　○ Enrollment Grade Exclude from State Reporting 　○ Course does not have Positive Attendance checked. 　○ Calendar Exclude 　○ School Exclude • Reports attendance for each school the student has a Student School Association record for. • The Attendance date must fall on or between enrollment start and end dates to report. • A record will send for each distinct Date and Attendance State Code. • The Positive Attendance module is **NOT** used for this type of reporting. We report Non-AOI Positive Attendance solely from the normal Negative Attendance module. 　○ Any information entered in the Positive Attendance module for this type of Attendance reporting will effectively be ignored. • Students reporting a Positive Attendance record should **NOT** be reporting a Negative Attendance record. You can only report one or the other even though the logic is set-up to accommodate both. This will cause errors when validating your data with the state if both are sent. 　○ Same for AOI vs. Non-AOI Attendance; Only one type should be sent for a given student. • If a student is reporting Non-AOI Positive Attendance, all other attendance types will be ignored and **NOT** reported.

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Delete /Post
 	
Put
	A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.
	
	• When any of the following information on a student's Attendance changes:
	
	   ○ Attendance ID (New Attendance record)
	   ○ Code
	   ○ Period
	   ○ Status
	   ○ Excuse
	   ○ Present Minutes
	• When any of the following information on the Enrollment changes:
	
	   ○ Start Date
	   ○ End Date
	   ○ State Exclude
	   ○ No Show

Delete	• When an enrollment is deleted. • When the student is now excluded in some way. • When the student no longer has any positive attendance for the day. ○ E.g. Instructional Minutes data element is calculated to be 0.

Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

• The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)
1	**attendanceEventCategoryDescriptor** (*string*)	*A code describing the attendance event, for example: Present Unexcused absence Excused absence Tardy.* • Reports **3** (In Attendance).	M	N/A	N/A	❌
2	**eventDate** (*date*)	*Date for this attendance event.* Reports the **Date** being reported.	M	Attendance	Attendance . date	✅
3	**schoolReference** (*reference*)	*A reference to the Schools resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Schools resource. • educationOrganizationId = **Ed-Fi School ID**	M	School Information	School . entityID	✅

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4	**sessionReference** (*reference*)	*A reference to the Sessions resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Sessions resource.	M	N/A	N/A	✅
5	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✅
6	instructionalMinutes (*number*)	*The amount of time, in minutes, that the student received instruction during the reported attendance period and the 'In Attendance' code is used* Reports the calculation of the following Negative Attendance Information:	M	Attendance	Period . periodMinutes Attendance . status Attendance . excuse Attendance . presentMinutes	EXT

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- Total Scheduled Minutes - Total Absent Minutes + Total Present Minutes = Instructional Minutes
  - Total Scheduled Minutes is defined as the total amount of time attributed to Courses where Attendance is taken where the Section is scheduled into an instructional period.
  - Total Absent Minutes is defined as the total amount of the Total Scheduled Minutes where a Local Attendance Code mapped to a Status of *A: Absent* and an Excuse of something OTHER THAN *X: Exempt* is entered for the Period.
    - A NULL Excuse on a Local Attendance Code is considered as *U: Unexcused* and will be counted in the Total Absent Minutes.
  - Total Present Minutes is defined as the sum of Present Minutes entered on each Period the student had Negative Attendance entered for.

NOTES:

- The Section must not be a cross-site Section. Attendance from cross-site Sections is not considered.

7	arrivalTime	This is optional, does not report.	O	N/A	N/A	N/A
8	attendanceEventReason	This is optional, does not report.	O	N/A	N/A	N/A
9	departureTime	This is optional, does not report.	O	N/A	N/A	N/A

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10	educationalEnvironmentDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
11	eventDuration	This is optional, does not report.	O	N/A	N/A	N/A
12	learningModalities	This is optional, does not report.	O	N/A	N/A	N/A
13	schoolAttendanceDuration	This is optional, does not report.	O	N/A	N/A	N/A

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Learning Modality Attendance (Virtual or Hybrid Learners - Blended Learning Groups)
Object Triggering Logic

Action	Business Rule(s)
Post	(Full Day) Reports a record when the student is assigned to a Blended Learning Group that is added to the day **OR** (Full Day) Reports a record when the student is reporting a day that has the *Virtual Override* Day Event code attached to it **OR** (Partial Day) Reports a record when the student is given Attendance data where the Local Attendance Code is mapped to a State Code of *DLA: Distance Learning Absent* or *DLP: Distance Learning Present*. - Do not report a record if the any of the following exclusions are present: - Enrollment State Exclude - Enrollment No Show - Enrollment Grade Exclude from State Reporting - Enrollment Local Service Type is *T: AOI* - Enrollment Attendance Type is *017: Positive* - Calendar Attendance Type is *017: Positive* - Calendar Exclude - School Exclude - Reports attendance for each school the student has a Student School Association record for. - The Attendance date must fall on or between enrollment start and end dates to report. - A record will send for each distinct Date and Attendance State Code. - Local Attendance Codes **must** be mapped to a State Code in *Attendance Office > Attendance Code Setup* to be eligible for state reporting. - Learning Modality Attendance is **NOT** reported on days where the student was in person the full day. - The student must be remote for some part of the day to report a Learning Modality Attendance record.

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Delete /Post Put	A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.
	
	 • When any of the following information is changed on a Day:
	     ○ Day Events
	     ○ Blended Learning Groups
	 • When any of the following information on a student's Attendance changes:
	
	     ○ Code
	     ○ Present Minutes
	 • When any of the following information on the Enrollment changes:
	
	     ○ Start Date
	     ○ End Date
	     ○ State Exclude
	     ○ No Show
	 • When the student is assigned to a Blended Learning Group
	 • Changes to the scheduled time of a period **do not trigger**. A manual resync will need to be performed if the scheduled period times are changes.

Delete	• When an enrollment is deleted. • When the attendance data is removed for the day. • When the student is now excluded in some way.

Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

• The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)
1	**attendanceEventCategoryDescriptor** (*string*)	*A code describing the attendance event, for example: Present Unexcused absence Excused absence Tardy.* • Reports **4** (Positive Attendance for Distance Learning) when the student was present virtually during the day. • Reports **5** (Negative Attendance for Distance Learning) when the student was absent when they were supposed to be virtual during the day.	M	N/A	N/A	❌
2	**eventDate** (*date*)	*Date for this attendance event.* Reports the **Date** being reported.	M	Attendance	Attendance .date	✅
3	**schoolReference** (*reference*)	*A reference to the Schools resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Schools resource. • educationOrganizationId = **Ed-Fi School ID**	M	School Information	School . entityID	✅

4	**sessionReference** (*reference*)	*A reference to the Sessions resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Sessions resource.	M	N/A	N/A	✅
5	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✅
6	learningModalities (*array*)	*An unordered collection of studentSchoolAttendance EventLearningModalities. Details of Learning Modality.* Reports the following data elements in an array: • modalityTimeTypeDescriptor 　○ Reports **Percentage**. • modalityTypeDescriptor 　○ Reports **Remote**. • modalityTime 　○ Reports 0.25, 0.50, 0.75, or 1. 　○ See the Learning Modality Appendix for more information on the calculation. 　　▪ Student was Partially Virtual (DLA and DLP codes) 　　▪ Student was Fully Virtual (Blended Learning Group or Day Event)	M			❌

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7	arrivalTime	This is optional, does not report.	O	N/A	N/A	N/A
8	attendanceEventReason	This is optional, does not report.	O	N/A	N/A	N/A
9	departureTime	This is optional, does not report.	O	N/A	N/A	N/A
10	educationalEnvironmentDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
11	eventDuration	This is optional, does not report.	O	N/A	N/A	N/A
12	schoolAttendanceDuration	This is optional, does not report.	O	N/A	N/A	N/A
13	instructionalMinutes	This is optional, does not report.	O	N/A	N/A	N/A - EXT

Negative Attendance

Object Triggering Logic

Action	Business Rule(s)

Post	Reports a record when the student was assigned an Attendance Code that is mapped to a State Code.
	
	• Do not report a record if the any of the following exclusions are present:
	  ○ Enrollment State Exclude
	  ○ Enrollment No Show
	  ○ Enrollment Grade Exclude from State Reporting
	  ○ Calendar Exclude
	  ○ School Exclude
	• Reports attendance for each school the student has a Student School Association record for.
	• The Attendance date must fall on or between enrollment start and end dates to report.
	• A record will send for each distinct Date and Attendance State Code.
	• Local Attendance Codes **must** be mapped to a State Code in *Attendance Office > Attendance Code Setup* to be eligible for state reporting.

Delete /Post
 	
Put
	A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.
	
	• When any of the following information on a student's Attendance changes:
	  ○ Code
	  ○ Present Minutes
	• When any of the following information on the Enrollment changes:
	  ○ Start Date
	  ○ End Date
	  ○ State Exclude
	  ○ No Show
	• Changes to the scheduled time of a period **do not trigger**. A manual resync will need to be performed if the scheduled period times are changes.

Delete	- When an enrollment is deleted. - When the attendance data is removed for the day. - When the student is now excluded in some way.

Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

- The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)
1	**attendanceEventCategoryDescriptor** (*string*)	*A code describing the attendance event, for example: Present Unexcused absence Excused absence Tardy.* - Reports **2** (Unexcused) if the student has any Unexcused Minutes for the day. - Unexcused Minutes are defined as Attendance Codes where the status is 'Absent' and the Excuse is 'Unexcused.' - Reports **1** (Excused) in all other situations.	M	N/A	N/A	❌

2	**eventDate** (*date*)	*Date for this attendance event.* Reports the **Date** being reported.	M	Attendance	Attendance .date	✅
3	**schoolReference** (*reference*)	*A reference to the Schools resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Schools resource. • educationOrganizationId = **Ed-Fi School ID**	M	School Information	School . entityID	✅
4	**sessionReference** (*reference*)	*A reference to the Sessions resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Sessions resource.	M	N/A	N/A	✅
5	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✅

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6	eventDuration (*decimal*)	*The amount of time for the event as recognized by the school: 1 day = 1, 1/2 day = 0.5, 1/3 day = 0.33.* Reports 0.25, 0.50, 0.75, or 1 based on the student's FTE, scheduled minutes, and absent minutes. See the Negative Attendance Appendix for more information on the calculation.	M	N/A	N/A	❌
7	arrivalTime	This is optional, does not report.	O	N/A	N/A	N/A
8	attendanceEventReason	This is optional, does not report.	O	N/A	N/A	N/A
9	departureTime	This is optional, does not report.	O	N/A	N/A	N/A
10	educationalEnvironmentDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
11	learningModalities	This is optional, does not report.	O	N/A	N/A	N/A
12	schoolAttendanceDuration	This is optional, does not report.	O	N/A	N/A	N/A
13	instructionalMinutes	This is optional, does not report.	O	N/A	N/A	N/A - EXT

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Appendix

Negative Attendance
Grades 9 Through 12 - 004A: Negative Method 1

Negative Method 1 should be used when a student's attendance is based on **courses** instead of instructional time. The logic described below is used by student's whose Grade Level is mapped to Grade 9, 10, 11, or 12 **AND** have an Attendance Type of *004A: Negative Method 1* (Uses the Enrollment value first, then the Calendar value if Enrollment value is NULL).

The following act as excludes for Negative Method 1:

- Course not marked as Attendance
- Course State Report Exclude
- Section Cross-Site
- Attendance is from Cross-Site
- Period Non-Instructional
- Roster Start Date After Attendance Date
- Roster End Date Before Attendance Date
- Term Start Date After Attendance Date
- Term End Date Before Attendance Date

The following logic is how the eventDuration is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Periods** of the student by counting the number of periods that are not excluded based on the requirements above.
    - Absence Amount is set to **0** if no Scheduled Periods are found.
  - Determine the **Absent Periods** of the student by counting the number of Scheduled Periods that have an attendance code with a Status of *A: Absent* **AND** an Excuse that is **NOT** *X: Exempt*.
  - Determine the Absence Amount by performing the following calculation: $FTE * (ABSENT\ PERIODS / SCHEDULED\ PERIODS)$
- Determine the **eventDuration** by using the below table:
  - For each of the below entries, if the calculated eventDuration is greater than the FTE, then report the FTE (25% = 0.25, 50% = 0.50, etc.)
  -

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Absence Amount	eventDuration
0	Does not report
Less than 0.26	0.25
Less than 0.51	0.50
Less than 0.76	0.75
All other situations	1

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Grades 9 Through 12 - 004: Negative Method 2

Negative Method 2 should be used when a student's attendance is based on **instructional time** instead of courses. The logic described below is used by student's whose Grade Level is mapped to Grade 9, 10, 11, or 12 **AND** have an Attendance Type of *004: Negative Method 2* (Uses the Enrollment value first, then the Calendar value if Enrollment value is NULL).

The following act as excludes for Negative Method 2:

- Course not marked as Attendance
- Course State Report Exclude
- Course does not have a Grading Task with a Credit of NULL or greater than 0
- Section Cross-Site
- Student cannot have a Section Student Detail with a value of Yes for Career Readiness
- Attendance is from Cross-Site
- Roster Start Date After Attendance Date
- Roster End Date Before Attendance Date
- Term Start Date After Attendance Date
- Term End Date Before Attendance Date

The following logic is how the eventDuration is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the number of Period Minutes associated with courses that are not excluded based on the requirements above.
    - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
  - Determine the **Attended Minutes** of the student by counting the number of Scheduled Minutes with an Attendance Status of *E: Early Release*, *P: Present*, *T: Tardy*, or *X* **AND** all Present Minutes.
    - Similar to Scheduled Minutes above, if the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
  - Determine the **Expected Minutes** of the student by performing the following calculation: `FTE * 240`
    - A full time (100% FTE) student is expected to attend 240 minutes per day.
  - Determine the **Disparity** of the student by performing the following calculation: `EXPECTED MINUTES - ATTENDED MINUTES`
  - Determine the Absence Amount by using the values determined above:

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- Return **0** when the Disparity is equal to or less than 0 **OR** when the student's only attendance marks for the day have Status of *T: Tardy* or *E: Early Release* **AND** an Excuse of *X: Exempt*.
  - The student attended the full day.
- Return **1** when Attended Minutes are equal to or less than 0.
  - The student was absent the full day.
- If the Scheduled Minutes are less than the Expected Minutes (Student is scheduled for less than the expected amount of instructional time for the day given their FTE)
  - Return the result of the following calculation: (SCHEDULED MINUTES - ATTENDED MINUTES) / SCHEDULED MINUTES
- In all other situations return the result of the following calculation: (EXPECTED MINUTES - ATTENDED MINUTES) / EXPECTED MINUTES
- The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
- Determine the **eventDuration** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**
Less than 0.01	Does not report	Less than 0.01	Does not report	Less than 0.01	Does not report	Less than 0.01	Does not report
Less than 0.26	0.25	Less than 0.35	0.25	Less than 0.51	0.25	All other situations	0.25
Less than 0.51	0.50	Less than 0.68	0.50	All other situations	0.50		
Less than 0.76	0.75	All other situations	0.75				
All other situations	1						

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Grades 1 Through 8 - Quarter Day

The logic described below is used by student's whose Grade Level is mapped to Grade 1, 2, 3, 4, 5, 6, 7, or 8 **AND** have an Attendance Calculation of *QD: Quarter Day* on the Calendar associated with their enrollment.

The following logic is how the eventDuration is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
    - Course not marked as Attendance
    - Course State Report Exclude
    - Section Cross-Site
    - Period Non-Instructional
    - Attendance is from Cross-Site
    - Roster Start Date After Attendance Date
    - Roster End Date Before Attendance Date
    - Term Start Date After Attendance Date
    - Term End Date Before Attendance Date
  - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
    - This is only for the primary term schedule.
  - Determine the **Absent Amount** of the student:
    - If the Scheduled Minutes are more than 0, return the result of the following calculation: $1 - ((SCHEDULED\ MINUTES - ABSENT\ MINUTES) / (SCHEDULED\ MINUTES * FTE))$
      - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
    - In all other situations return **0**.
- Determine the **eventDuration** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**
Less than 0.25	Does not report	Less than 0.25	Does not report	Less than 0.25	Does not report	Less than 0.25	Does not report
0.25	0.25	Less than	0.25	Less than	0.25	All other	0.25

		0.35		0.51		situations	
Less than 0.51	0.50	Less than 0.68	0.50	All other situations	0.50		
Less than 0.76	0.75	All other situations	0.75				
All other situations	1						

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Grades 1 Through 8 - Half Day / Whole Day

The logic described below is used by student's whose Grade Level is mapped to Grade 1, 2, 3, 4, 5, 6, 7, or 8 **AND** have an Attendance Calculation of *HW: Half Day/Whole Day* on the Calendar associated with their enrollment.

The following logic is how the eventDuration is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
    - Course not marked as Attendance
    - Course State Report Exclude
    - Section Cross-Site
    - Period Non-Instructional
    - Attendance is from Cross-Site
    - Roster Start Date After Attendance Date
    - Roster End Date Before Attendance Date
    - Term Start Date After Attendance Date
    - Term End Date Before Attendance Date
  - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
    - This is only for the primary term schedule.
  - Determine the **Absent Amount** of the student:
    - If the Scheduled Minutes are more than 0, return the result of the following calculation: $1 - ((SCHEDULED\ MINUTES - ABSENT\ MINUTES) / (SCHEDULED\ MINUTES * FTE))$
      - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
    - In all other situations return **0**.
- Determine the **eventDuration** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**
Less than 0.26	Does not report	Less than 0.26	Does not report	Less than 0.26	Does not report	Less than 0.51	Does not report
Less than	0.50	Less than	0.25	Less than	0.25	All other	0.25

0.51		0.51		0.51		situations	
All other situations	1	All other situations	0.75	All other situations	0.50		

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Grade KG or UE - Half Day

The logic described below is used by student's whose Grade Level is mapped to Grade KG or UE **AND** have a Kindergarten of *A: Half Day Every Day* on the Calendar Grade Level Setup associated with their enrollment.

The following logic is how the eventDuration is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
    - Course not marked as Attendance
    - Course State Report Exclude
    - Section Cross-Site
    - Period Non-Instructional
    - Attendance is from Cross-Site
    - Roster Start Date After Attendance Date
    - Roster End Date Before Attendance Date
    - Term Start Date After Attendance Date
    - Term End Date Before Attendance Date
  - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
    - This is only for the primary term schedule.
  - Determine the **Absent Amount** of the student:
    - If the Scheduled Minutes are more than 0, return the result of the following calculation: `1 - ((SCHEDULED MINUTES - ABSENT MINUTES) / (SCHEDULED MINUTES * FTE))`
      - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
    - In all other situations return **0**.
- Determine the **eventDuration** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**
Less than 0.74	Does not report	Less than 0.74	Does not report	Less than 0.74	Does not report	Less than 0.74	Does not report
All other	0.50	All other	0.50	All other	0.50	All other	0.25

situations		situations		situations		situations	

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Grade KG or UE - Full Day

The logic described below is used by student's whose Grade Level is mapped to Grade KG or UE **AND** have a Kindergarten of *B: Full Day Every Other Day, C: Full Day 3 Days a Week, D: Full Day Every Day Spring-Only, E: Full Day Every Day,* or *F: Full Day Every Day Title 1* on the Calendar Grade Level Setup associated with their enrollment.

The following logic is how the eventDuration is determined:

- Obtain the **Absence Amount**
    - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
        - Course not marked as Attendance
        - Course State Report Exclude
        - Section Cross-Site
        - Period Non-Instructional
        - Attendance is from Cross-Site
        - Roster Start Date After Attendance Date
        - Roster End Date Before Attendance Date
        - Term Start Date After Attendance Date
        - Term End Date Before Attendance Date
    - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
        - This is only for the primary term schedule.
    - Determine the **Absent Amount** of the student:
        - If the Scheduled Minutes are more than 0, return the result of the following calculation: $1 - ((\text{SCHEDULED MINUTES} - \text{ABSENT MINUTES}) / (\text{SCHEDULED MINUTES} * \text{FTE}))$
            - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
        - In all other situations return **0**.
- Determine the **eventDuration** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**	**Absence Amount**	**eventDuration**
Less than 0.51	Does not report	Less than 0.51	Does not report	Less than 0.51	Does not report	Less than 0.51	Does not report

All other situations	1.00	All other situations	0.75	All other situations	0.50	All other situations	0.25

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Learning Modality Attendance - Full Day
Grades 9 Through 12 - 004A: Negative Method 1

Negative Method 1 should be used when a student's attendance is based on **courses** instead of instructional time. The logic described below is used by student's whose Grade Level is mapped to Grade 9, 10, 11, or 12 **AND** have an Attendance Type of *004A: Negative Method 1* (Uses the Enrollment value first, then the Calendar value if Enrollment value is NULL).

The following act as excludes for Negative Method 1:

- Course not marked as Attendance
- Course State Report Exclude
- Section Cross-Site
- Attendance is from Cross-Site
- Period Non-Instructional
- Roster Start Date After Attendance Date
- Roster End Date Before Attendance Date
- Term Start Date After Attendance Date
- Term End Date Before Attendance Date

The following logic is how the modalityTime is determined:

- Obtain the **Absence Amount**
    - Determine the **Scheduled Periods** of the student by counting the number of periods that are not excluded based on the requirements above.
        - Absence Amount is set to **0** if no Scheduled Periods are found.
    - Determine the **Absent Periods** of the student by counting the number of Scheduled Periods that have an attendance code with a Status of *A: Absent* **AND** an Excuse that is **NOT** *X: Exempt*.
    - Determine the Absence Amount by performing the following calculation: `FTE * (ABSENT PERIODS / SCHEDULED PERIODS)`
- Determine the **modalityTime** by using the below table:
    - For each of the below entries, if the calculated modalityTime is greater than the FTE, then report the FTE (25% = 0.25, 50% = 0.50, etc.)

    -

Absence Amount	modalityTime

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0	Does not report
Less than 0.26	0.25
Less than 0.51	0.50
Less than 0.76	0.75
All other situations	1

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Grades 9 Through 12 - 004: Negative Method 2

Negative Method 2 should be used when a student's attendance is based on **instructional time** instead of courses. The logic described below is used by student's whose Grade Level is mapped to Grade 9, 10, 11, or 12 **AND** have an Attendance Type of *004: Negative Method 2* (Uses the Enrollment value first, then the Calendar value if Enrollment value is NULL).

The following act as excludes for Negative Method 2:

- Course not marked as Attendance
- Course State Report Exclude
- Course does not have a Grading Task with a Credit of NULL or greater than 0
- Section Cross-Site
- Student cannot have a Section Student Detail with a value of Yes for Career Readiness
- Attendance is from Cross-Site
- Roster Start Date After Attendance Date
- Roster End Date Before Attendance Date
- Term Start Date After Attendance Date
- Term End Date Before Attendance Date

The following logic is how the modalityTime is determined:

- Obtain the **Absence Amount**
    - Determine the **Scheduled Minutes** of the student by counting the number of Period Minutes associated with courses that are not excluded based on the requirements above.
        - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
    - Determine the **Attended Minutes** of the student by counting the number of Scheduled Minutes with an Attendance Status of *E: Early Release*, *P: Present*, *T: Tardy*, or *X* **AND** all Present Minutes.
        - Similar to Scheduled Minutes above, if the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
    - Determine the **Expected Minutes** of the student by performing the following calculation: `FTE * 240`
        - A full time (100% FTE) student is expected to attend 240 minutes per day.
    - Determine the **Disparity** of the student by performing the following calculation: `EXPECTED MINUTES - ATTENDED MINUTES`
    - Determine the Absence Amount by using the values determined above:

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- Return **0** when the Disparity is equal to or less than 0 **OR** when the student's only attendance marks for the day have Status of *T: Tardy* or *E: Early Release* **AND** an Excuse of *X: Exempt*.
  - The student attended the full day.
- Return **1** when Attended Minutes are equal to or less than 0.
  - The student was absent the full day.
- If the Scheduled Minutes are less than the Expected Minutes (Student is scheduled for less than the expected amount of instructional time for the day given their FTE)
  - Return the result of the following calculation: (SCHEDULED MINUTES - ATTENDED MINUTES) / SCHEDULED MINUTES
- In all other situations return the result of the following calculation: (EXPECTED MINUTES - ATTENDED MINUTES) / EXPECTED MINUTES
  - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
- Determine the **modalityTime** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**
Less than 0.01	Does not report	Less than 0.01	Does not report	Less than 0.01	Does not report	Less than 0.01	Does not report
Less than 0.26	0.25	Less than 0.35	0.25	Less than 0.51	0.25	All other situations	0.25
Less than 0.51	0.50	Less than 0.68	0.50	All other situations	0.50		
Less than 0.76	0.75	All other situations	0.75				
All other situations	1						

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Grades 1 Through 8 - Quarter Day

The logic described below is used by student's whose Grade Level is mapped to Grade 1, 2, 3, 4, 5, 6, 7, or 8 **AND** have an Attendance Calculation of *QD: Quarter Day* on the Calendar associated with their enrollment.

The following logic is how the modalityTime is determined:

- Obtain the **Absence Amount**
    - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
        - Course not marked as Attendance
        - Course State Report Exclude
        - Section Cross-Site
        - Period Non-Instructional
        - Attendance is from Cross-Site
        - Roster Start Date After Attendance Date
        - Roster End Date Before Attendance Date
        - Term Start Date After Attendance Date
        - Term End Date Before Attendance Date
    - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
        - This is only for the primary term schedule.
    - Determine the **Absent Amount** of the student:
        - If the Scheduled Minutes are more than 0, return the result of the following calculation: $1 - ((\text{SCHEDULED MINUTES} - \text{ABSENT MINUTES}) / (\text{SCHEDULED MINUTES} * \text{FTE}))$
            - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
        - In all other situations return **0**.
- Determine the **modalityTime** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**
Less than 0.25	Does not report	Less than 0.25	Does not report	Less than 0.25	Does not report	Less than 0.25	Does not report
0.25	0.25	Less than	0.25	Less than	0.25	All other	0.25

Less than 0.51	0.50	0.35		0.51		situations	
Less than 0.76	0.75	Less than 0.68	0.50	All other situations	0.50		
All other situations	1	All other situations	0.75				

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Grades 1 Through 8 - Half Day / Whole Day

The logic described below is used by student's whose Grade Level is mapped to Grade 1, 2, 3, 4, 5, 6, 7, or 8 **AND** have an Attendance Calculation of *HW: Half Day/Whole Day* on the Calendar associated with their enrollment.

The following logic is how the modalityTime is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
    - Course not marked as Attendance
    - Course State Report Exclude
    - Section Cross-Site
    - Period Non-Instructional
    - Attendance is from Cross-Site
    - Roster Start Date After Attendance Date
    - Roster End Date Before Attendance Date
    - Term Start Date After Attendance Date
    - Term End Date Before Attendance Date
  - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
    - This is only for the primary term schedule.
  - Determine the **Absent Amount** of the student:
    - If the Scheduled Minutes are more than 0, return the result of the following calculation: `1 - ((SCHEDULED MINUTES - ABSENT MINUTES) / (SCHEDULED MINUTES * FTE))`
      - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
    - In all other situations return **0**.
- Determine the **modalityTime** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**
Less than 0.26	Does not report	Less than 0.26	Does not report	Less than 0.26	Does not report	Less than 0.51	Does not report
Less than	0.50	Less than	0.25	Less than	0.25	All other	0.25

0.51		0.51		0.51		situations	
All other situations	1	All other situations	0.75	All other situations	0.50		

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Grade KG or UE - Half Day

The logic described below is used by student's whose Grade Level is mapped to Grade KG or UE **AND** have a Kindergarten of *A: Half Day Every Day* on the Calendar Grade Level Setup associated with their enrollment.

The following logic is how the modalityTime is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
    - Course not marked as Attendance
    - Course State Report Exclude
    - Section Cross-Site
    - Period Non-Instructional
    - Attendance is from Cross-Site
    - Roster Start Date After Attendance Date
    - Roster End Date Before Attendance Date
    - Term Start Date After Attendance Date
    - Term End Date Before Attendance Date
  - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
    - This is only for the primary term schedule.
  - Determine the **Absent Amount** of the student:
    - If the Scheduled Minutes are more than 0, return the result of the following calculation: `1 - ((SCHEDULED MINUTES - ABSENT MINUTES) / (SCHEDULED MINUTES * FTE))`
      - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
    - In all other situations return **0**.
- Determine the **modalityTime** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**
Less than 0.74	Does not report	Less than 0.74	Does not report	Less than 0.74	Does not report	Less than 0.74	Does not report
All other	0.50	All other	0.50	All other	0.50	All other	0.25

situations		situations		situations		situations	

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Grade KG or UE - Full Day

The logic described below is used by student's whose Grade Level is mapped to Grade KG or UE **AND** have a Kindergarten of *B: Full Day Every Other Day, C: Full Day 3 Days a Week, D: Full Day Every Day Spring-Only, E: Full Day Every Day,* or *F: Full Day Every Day Title 1* on the Calendar Grade Level Setup associated with their enrollment.

The following logic is how the modalityTime is determined:

- Obtain the **Absence Amount**
  - Determine the **Scheduled Minutes** of the student by counting the Period Minutes and Lunch Minutes that are not excluded by any of the below:
    - Course not marked as Attendance
    - Course State Report Exclude
    - Section Cross-Site
    - Period Non-Instructional
    - Attendance is from Cross-Site
    - Roster Start Date After Attendance Date
    - Roster End Date Before Attendance Date
    - Term Start Date After Attendance Date
    - Term End Date Before Attendance Date
  - Determine the **Absent Minutes** of the student by counting the Scheduled Minutes where the Attendance Status is *A: Absent* and the Excuse is **NOT** NULL or *X: Exempt*.
    - This is only for the primary term schedule.
  - Determine the **Absent Amount** of the student:
    - If the Scheduled Minutes are more than 0, return the result of the following calculation: $1 - ((\text{SCHEDULED MINUTES} - \text{ABSENT MINUTES}) / (\text{SCHEDULED MINUTES} * \text{FTE}))$
      - The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
    - In all other situations return **0**.
- Determine the **modalityTime** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absence Amount	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**	**Absence Amount**	**modalityTime**
Less than 0.51	Does not report	Less than 0.51	Does not report	Less than 0.51	Does not report	Less than 0.51	Does not report

All other situations	1.00	All other situations	0.75	All other situations	0.50	All other situations	0.25

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Learning Modality Attendance - Partial Day
All Grades

All grades will utilize the following calculations.

If the Local Attendance Code being used is set to a State Code of *DLP: Distance Learning Present* then use the **In Attendance** sections below for the appropriate grade level and combination. Otherwise use the **Absent** sections below.

The following act as excludes:

- Course must have Attendance checked to be included
- Section cannot be cross-site
- Period must be instructional
- Roster Start Date After Attendance Date
- Roster End Date Before Attendance Date
- Term Start Date After Attendance Date
- Term End Date Before Attendance Date

The following logic describes the various terms utilized in all other calculations below:

- **Total Scheduled Minutes** are determined by summing the number of period minutes for courses that meet the above criteria
    - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
- **Total In Person Present Minutes** are determined by the summing the number of period minutes for courses that meet the above criteria and were given a Local Attendance Code that does **NOT** have a State Code of DLP/DLA **AND** the Status is **NOT** *A: Absent* **PLUS** any Present Minutes entered for these periods.
    - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
- **Total Distance Learning Present Minutes** are determined by summing the number of period minutes for courses that meet the above criteria and were given a Local Attendance Code that **HAS** a State Code of *DLP: Distance Learning Present* **AND** any Present Minutes entered for these periods for Local Attendance Codes that have a State Code of *DLA: Distance Learning Absent*.
    - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.

- **Total In Person Absent Minutes** are determined by summing the number of period minutes for courses that meet the above criteria and were given a Local Attendance Code that does **NOT** have a State Code of DLA **AND** the Status **IS** *A: Absent* **MINUS** any Present Minutes entered for these periods.
  - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
- **Total Distance Learning Absent Minutes** are determined by summing the number of period minutes for courses that meet the above criteria and were given a Local Attendance Code that **HAS** a State Code of *DLA: Distance Learning Absent* **MINUS** any Present Minutes entered for these periods.

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Grades 9 Through 12 - "In Attendance"

This section should be used to determine the modalityTime that should report when the student is reporting "In Attendance" for virtual time that is only a portion of the student's full day. For grades 9 through 12, it **does NOT matter** if the Attendance Type is set to *004A: Negative Method 1* or *004: Negative Method 2*. Both methods will use the below logic.

The following logic is how the modalityTime is determined:

- Determine the **Expected Hours** for the student by performing the following calculation and rounding to the nearest integer: `4 * FTE`
  - Expected Hours represent 60 minute intervals. Each 25% of FTE is expected to attend for 60 minutes.
- Compares the **Expected Minutes** (`EXPECTED HOURS * 60`) to the **Total Scheduled Minutes**.
  - If the Total Scheduled Minutes are greater than the Expected Minutes, then Expected Minutes is used as "Total Scheduled Minutes" for all further calculations.
- Determine the **Non Virtual Hours** for the student by performing the following calculation and rounding to the nearest integer: `TOTAL IN PERSON PRESENT MINUTES / 60`
- Compare the **Non Virtual Hours** to the **Expected Hours**
  - If the Non Virtual Hours are greater than or equal to the Expected Hours **stop processing here**.
    - The student has attended in-person for the expected amount of time and should **NOT** be sending a Learning Modality Partial Day attendance record.
  - If the Non Virtual Hours are less than the Expected Hours
    - Determine the **Remaining Hours** for the student by performing the following calculation: `EXPECTED HOURS - NON VIRTUAL HOURS`
    - Determine the **Absence Amount** for the day
      - The following are used as excludes:
        - Course not marked as Attendance
        - Course State Report Exclude
        - Course does not have a Grading Task with a Credit of NULL or greater than 0
        - Section Cross-Site
        - Student cannot have a Section Student Detail with a value of Yes for Career Readiness
        - Attendance is from Cross-Site
        - Roster Start Date After Attendance Date
        - Roster End Date Before Attendance Date
        - Term Start Date After Attendance Date
        - Term End Date Before Attendance Date
      - Determine the **Scheduled Minutes** of the student by counting the number of Period Minutes associated with courses that are not excluded based on the requirements above.
        - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.

- Determine the **Attended Minutes** of the student by counting the number of Scheduled Minutes with an Attendance Status of *E: Early Release*, *P: Present*, *T: Tardy*, or *X* **AND** all Present Minutes.
  - Similar to Scheduled Minutes above, if the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
- Determine the **Expected Minutes** of the student by performing the following calculation: `FTE * 240`
  - A full time (100% FTE) student is expected to attend 240 minutes per day.
- Determine the **Disparity** of the student by performing the following calculation: `EXPECTED MINUTES - ATTENDED MINUTES`
- Determine the Absence Amount by using the values determined above:
  - Return **0** when the Disparity is equal to or less than 0 **OR** when the student's only attendance marks for the day have Status of *T: Tardy* or *E: Early Release* **AND** an Excuse of *X: Exempt*.
    - The student attended the full day.
  - Return **1** when Attended Minutes are equal to or less than 0.
    - The student was absent the full day.
  - If the Scheduled Minutes are less than the Expected Minutes (Student is scheduled for less than the expected amount of instructional time for the day given their FTE)
    - Return the result of the following calculation: `(SCHEDULED MINUTES - ATTENDED MINUTES) / SCHEDULED MINUTES`
  - In all other situations return the result of the following calculation: `(EXPECTED MINUTES - ATTENDED MINUTES) / EXPECTED MINUTES`
- The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
- Determine the **Total Attended Hours** for the student by performing the following calculation: `(1 - ABSENCE AMOUNT) * EXPECTED HOURS`
- Compare the **Total Attended Hours** to the **Expected Hours**.
  - If Total Attended Hours are greater than or equal to the Expected Hours
    - Return the result of the following calculation for **Modality Time**: `REMAINING HOURS * 25`
    - **Stop processing here.** Modality Time has been determined for the student - The student was present the full day.
  - If Total Attended Hours are less than the Expected Hours
    - Determine the **Present Time** for the student by performing the following calculation:
      `TOTAL DISTANCE LEARNING PRESENT MINUTES / TOTAL SCHEDULED MINUTES`
      - Make sure to use the Expected Minutes when applicable based on the comparison between Scheduled Minutes and Expected Minutes done above.
    - Determine the **Modality Time** by using the below table:
      - If the Present Time is greater than 0.99, Modality Time is `FTE * 100`

100% FTE		75% FTE		50% FTE		25% FTE	
Present Time	**Modality Time**	**Present Time**	**Modality Time**	**Present Time**	**Modality Time**	**Present Time**	**Modality Time**

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Less than 0.25	Does not report	Less than 0.33	Does not report	Less than 0.50	Does not report	Any amount	Does not report
Less than 0.50	25	Less than 0.66	25	All other situations	25		
Less than 0.75	50	All other situations	50				
All other situations	75						

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Grades 9 Through 12 - "Absent"

This section should be used to determine the modalityTime that should report when the student is reporting "Absent" for virtual time that is only a portion of the student's full day. For grades 9 through 12, it **does NOT matter** if the Attendance Type is set to *004A: Negative Method 1* or *004: Negative Method 2*. Both methods will use the below logic.

The following logic is how the modalityTime is determined:

- Determine the **Expected Hours** for the student by performing the following calculation and rounding to the nearest integer: `4 * FTE`
  - Expected Hours represent 60 minute intervals. Each 25% of FTE is expected to attend for 60 minutes.
- Compares the **Expected Minutes** (`EXPECTED HOURS * 60`) to the **Total Scheduled Minutes**.
  - If the Total Scheduled Minutes are greater than the Expected Minutes, then Expected Minutes is used as "Total Scheduled Minutes" for all further calculations.
- Determine the **Non Virtual Hours** for the student by performing the following calculation and rounding to the nearest integer: `TOTAL IN PERSON PRESENT MINUTES / 60`
- Compare the **Non Virtual Hours** to the **Expected Hours**
  - If the Non Virtual Hours are greater than or equal to the Expected Hours **stop processing here**.
    - The student has attended in-person for the expected amount of time and should **NOT** be sending a Learning Modality Partial Day attendance record.
  - If the Non Virtual Hours are less than the Expected Hours
    - Determine the **Absence Amount** for the day
      - The following are used as excludes:
        - Course not marked as Attendance
        - Course State Report Exclude
        - Course does not have a Grading Task with a Credit of NULL or greater than 0
        - Section Cross-Site
        - Student cannot have a Section Student Detail with a value of Yes for Career Readiness
        - Attendance is from Cross-Site
        - Roster Start Date After Attendance Date
        - Roster End Date Before Attendance Date
        - Term Start Date After Attendance Date
        - Term End Date Before Attendance Date
    - Determine the **Scheduled Minutes** of the student by counting the number of Period Minutes associated with courses that are not excluded based on the requirements above.
      - If the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.

- Determine the **Attended Minutes** of the student by counting the number of Scheduled Minutes with an Attendance Status of *E: Early Release*, *P: Present*, *T: Tardy*, or *X* **AND** all Present Minutes.
    - Similar to Scheduled Minutes above, if the Period Minutes are 55, 56, 57, 58, or 59, it will count as **60 minutes** for the purpose of the attendance calculation.
- Determine the **Expected Minutes** of the student by performing the following calculation: `FTE * 240`
    - A full time (100% FTE) student is expected to attend 240 minutes per day.
- Determine the **Disparity** of the student by performing the following calculation: `EXPECTED MINUTES - ATTENDED MINUTES`
- Determine the Absence Amount by using the values determined above:
    - Return **0** when the Disparity is equal to or less than 0 **OR** when the student's only attendance marks for the day have Status of *T: Tardy* or *E: Early Release* **AND** an Excuse of *X: Exempt*.
        - The student attended the full day.
    - Return **1** when Attended Minutes are equal to or less than 0.
        - The student was absent the full day.
    - If the Scheduled Minutes are less than the Expected Minutes (Student is scheduled for less than the expected amount of instructional time for the day given their FTE)
        - Return the result of the following calculation: `(SCHEDULED MINUTES - ATTENDED MINUTES) / SCHEDULED MINUTES`
    - In all other situations return the result of the following calculation: `(EXPECTED MINUTES - ATTENDED MINUTES) / EXPECTED MINUTES`
- The resulting Absence Amount is then rounded to the nearest hundredths place (X.XX) using normal rounding rules.
- Determine the **Total Attended Minutes** for the student by performing the following calculation: `(1 - ABSENCE AMOUNT) * SCHEDULED MINUTES`
    - Remember to use Expected Minutes if applicable based on the prior comparison between Expected Minutes and Scheduled Minutes.
- Compare the **Total Attended Minutes** to the **Scheduled Minutes**.
    - Remember to use Expected Minutes if applicable based on the prior comparison between Expected Minutes and Scheduled Minutes.
    - If Total Attended Minutes are greater than or equal to the Scheduled Minutes:
        - **Stop processing here.** No absence time should be reported.
    - If Total Attended Minutes are less than the Scheduled Minutes:
        - Confirm that the **Distance Learning Absent Minutes** are greater than 0.
            - If Distance Learning Absent Minutes are less than or equal to 0, **Stop processing here.** No absence time should be reported.
        - Determine the **Percent Attended** by performing the following calculation and rounding to the nearest hundredths value using normal rounded rules: `TOTAL ATTENDED MINUTES / SCHEDULED MINUTES`
            - Remember to use Expected Minutes if applicable based on the prior comparison between Expected Minutes and Scheduled Minutes.
        - If the **In Person Absent Minutes** are 0:
            - Return the result of the following calculation for **Absent Time**: `1 - PERCENT ATTENDED`

- **Refer to the table to find Modality Time.** All further below instructions are irrelevant as we have determined Absent Time.
  - If the **In Person Absent Minutes** are greater than 0 **AND** the **Distance Learning Absent Minutes** are greater than 0:
    - Determine **In Person Percent Absent** by performing the following calculation: `IN PERSON ABSENT MINUTES / SCHEDULED MINUTES`
      - Remember to use Expected Minutes if applicable based on the prior comparison between Expected Minutes and Scheduled Minutes.
    - If `IN PERSON PERCENT ABSENT + PERCENT ATTENDED` is greater than or equal to 1:
      - **Stop processing here.** No absence time should be reported.
    - If `IN PERSON PERCENT ABSENT + PERCENT ATTENDED` is less than 1:
      - Return the result of the following calculation for **Absent Time**: `1 - IN PERSON PERCENT ABSENT - PERCENT ATTENDED`
      - **Refer to the table to find Modality Time.** All further below instructions are irrelevant as we have determined Absent Time.
- Determine the **Modality Time** by using the below table:

100% FTE		75% FTE		50% FTE		25% FTE	
Absent Time	**Modality Time**	**Absent Time**	**Modality Time**	**Absent Time**	**Modality Time**	**Absent Time**	**Modality Time**
Less than 0.01	Does not report	Less than 0.01	Does not report	Less than 0.01	Does not report	Less than 0.01	Does not report
Less than 0.26	25	Less than 0.35	25	Less than 0.51	25	All other situations	25
Less than 0.51	50	Less than 0.68	50	All other situations	50		
Less than 0.76	75	All other situations	75				
All other situations	100						

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Grades 1 Through 8 - "In Attendance"

The logic described below is used by student's whose Grade Level is mapped to Grade 1, 2, 3, 4, 5, 6, 7, or 8.

The following logic is how the modalityTime is determined:

- Determine the **Scheduled Minutes** for the day by performing the following calculation: `TOTAL SCHEDULED MINUTES * FTE`
- Compare the **In Person Present Minutes** to the **Scheduled Minutes**:
  - If the In Person Present Minutes are greater than or equal to the Scheduled Minutes:
    - **Stop processing here.** The student has attended in-person for the expected amount of time and should **NOT** be sending a Learning Modality Partial Day attendance record.
  - If the In Person Present Minutes are less than the Scheduled Minutes:
    - If `IN PERSON PRESENT MINUTES + VIRTUAL PRESENT MINUTES` is greater than or equal to the Scheduled Minutes:
      - **Percent Attended** will be the result of the following calculation rounded to the nearest hundredths place using normal rounding rules: `(SCHEDULED MINUTES - IN PERSON PRESENT MINUTES) / SCHEDULED MINUTES`
    - If `IN PERSON PRESENT MINUTES + VIRTUAL PRESENT MINUTES` is less than the Scheduled Minutes:
      - **Percent Attended** will be the result of the following calculation rounded to the nearest hundredths place using normal rounding rules: `DISTANCE LEARNING PRESENT MINUTES / SCHEDULED MINUTES`
- Determine the **Modality Time** (use the first table that matches the student's situation):
  - If the student's Attendance Calculation is *QD: Quarter Day*:

100% FTE		75% FTE		50% FTE		25% FTE	
Percent Attended	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**
Greater than 0.99	100	Greater than 0.99	75	Greater than 0.99	50	Greater than 0.99	25
Greater than 0.74	75	Greater than 0.65	50	Greater than 0.49	25	All other situations	Does not report
Greater than 0.49	50	Greater than 0.32	25	All other situations	Does not report		

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| Greater than 0.24 | 25 | All other situations | Does not report | | |
| All other situations | Does not report | | | | |

- If the **In Person Present Minutes** are equal to 0:
    - Regardless of FTE, if the Percent Attended is less than 0.25, **do not report**.

100% FTE		75% FTE		50% FTE		25% FTE	
Percent Attended	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**
Greater than 0.74	100	Greater than 0.74	75	Greater than 0.74	50	All other situations	25
All other situations	50	All other situations	25	All other situations	25		

- All other situations:
    - Regardless of FTE, if the Percent Attended is less than 0.25, **do not report**.

100% FTE		75% FTE		50% FTE		25% FTE	
Percent Attended	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**
Greater than 0.99	100	Greater than 0.74	75	Greater than 0.74	50	All other situations	25
Greater than 0.74	75	Greater than 0.49	50	All other situations	25		
Greater than 0.49	50	All other situations	25				

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All other situations	25

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Grades 1 Through 8 - "Absent"

The logic described below is used by student's whose Grade Level is mapped to Grade 1, 2, 3, 4, 5, 6, 7, or 8.

The following logic is how the modalityTime is determined:

- Determine the **Scheduled Minutes** for the day by performing the following calculation: TOTAL SCHEDULED MINUTES * FTE
- Determine the **Total Present Minutes** by performing the following calculation: DISTANCE LEARNING PRESENT MINUTES + IN PERSON PRESENT MINUTES
- Confirm that the **Total Present Minutes** are less than the Scheduled Minutes **AND** that the Distance Learning Absent Minutes are greater than 0.
  - If at least one of these is not the case, **Stop processing here.**
  - Determine the **Percent Attended** by performing the following calculation: TOTAL PRESENT MINUTES / SCHEDULED MINUTES

- Determine the **Modality Time** (use the first table that matches the student's situation):
  - If the **In Person Absent Minutes** are equal to 0:
    - If the student's Attendance Calculation is *QD: Quarter Day*:
      - Regardless of FTE, if the Percent Attended is greater than 0.99, **do not report**.

• 100% FTE		75% FTE		50% FTE		25% FTE	
Percent Attended	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**
Less than 0.25	100	Less than 0.33	75	Less than 0.50	50	All other situations	25
Less than 0.50	75	Less than 0.66	50	All other situations	25		
Less than 0.75	50	All other situations	25				
All other situations	25						

- If the student's Attendance Calculation is *HW: Half Day/Whole Day*:

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100% FTE		75% FTE		50% FTE		25% FTE	
Percent Attended	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**
Less than 0.25	100	Less than 0.25	75	Less than 0.25	50	Less than 0.25	25
Less than 0.75	50	Less than 0.75	25	Less than 0.75	25	All other situations	Does not report
All other situations	Does not report	All other situations	Does not report	All other situations	Does not report		

- If **In Person Absent Minutes** are greater than 0 **AND** Distance Learning Absent Minutes are greater than 0:
  - Determine the **In Person Percent Absent** by performing the following calculation: `IN PERSON ABSENT MINUTES / SCHEDULED MINUTES`
  - If `IN PERSON PERCENT ABSENT + PERCENT ATTENDED` is less than 1:
    - Determine the **Virtual Percent Absent** by performing the following calculation rounded to the nearest hundredths place using normal rounding rules: `1 - IN PERSON PERCENT ABSENT - PERCENT ATTENDED`
    - If the student's Attendance Calculation is *QD: Quarter Day*:
      - Regardless of FTE, if the Virtual Percent Absent is less than 0.01, **do not report**.

100% FTE		75% FTE		50% FTE		25% FTE	
Virtual Percent Absent	**Modality Time**	**Virtual Percent Absent**	**Modality Time**	**Virtual Percent Absent**	**Modality Time**	**Virtual Percent Absent**	**Modality Time**
Greater than 0.50	75	Greater than 0.33	50	All other situations	25	All other situations	Does not report
Greater than 0.25	50	All other situations	25				
All other	25						

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situations	

- If the student's Attendance Calculation is **HW: Half Day/Whole Day**:
  - Regardless of FTE, if the Virtual Percent Absent is less than 0.25, **do not report**.
  -

100% FTE		75% FTE		50% FTE		25% FTE	
Virtual Percent Absent	**Modality Time**	**Virtual Percent Absent**	**Modality Time**	**Virtual Percent Absent**	**Modality Time**	**Virtual Percent Absent**	**Modality Time**
Greater than 0.74	75	Greater than 0.74	50	All other situations	25	All other situations	25
Greater than 0.49	50	All other situations	25				
All other situations	25						

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Grade KG or UE - "In Attendance"

The logic described below is used by student's whose Grade Level is mapped to Grade KG or UE.

The following logic is how the modalityTime is determined:

- Determine the **Scheduled Minutes** for the day by performing the following calculation: `TOTAL SCHEDULED MINUTES * FTE`
- Compare the **In Person Present Minutes** to the **Scheduled Minutes**:
  - If the In Person Present Minutes are greater than or equal to the Scheduled Minutes:
    - **Stop processing here.** The student has attended in-person for the expected amount of time and should **NOT** be sending a Learning Modality Partial Day attendance record.
  - If the In Person Present Minutes are less than the Scheduled Minutes:
    - If `IN PERSON PRESENT MINUTES + VIRTUAL PRESENT MINUTES` is greater than or equal to the Scheduled Minutes:
      - **Percent Attended** will be the result of the following calculation rounded to the nearest hundredths place using normal rounding rules: `(SCHEDULED MINUTES - IN PERSON PRESENT MINUTES) / SCHEDULED MINUTES`
    - If `IN PERSON PRESENT MINUTES + VIRTUAL PRESENT MINUTES` is less than the Scheduled Minutes:
      - **Percent Attended** will be the result of the following calculation rounded to the nearest hundredths place using normal rounding rules: `DISTANCE LEARNING PRESENT MINUTES / SCHEDULED MINUTES`
- Determine the **Modality Time** (use the first table that matches the student's situation):
  - If the student's Attendance Type is *A: Half Day Every Day* **AND** Percent Attended is greater than 0.25:
    - Determine **Modality Time** by performing the following calculation: `FTE * 100`
  - If the student's Attendance Type is *B: Full Day Every Other Day, C: Full Day 3 Days a Week, D: Full Day Every Day Spring-Only, E: Full Day Every Day,* or *F: Full Day Every Day Title 1* **AND** Percent Attended is greater than 0.50
    - Determine **Modality Time** by performing the following calculation: `FTE * 100`
  - In all other situations, **do not report**.

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Grade KG or UE - "Absent"

The logic described below is used by student's whose Grade Level is mapped to Grade KG or UE.

The following logic is how the modalityTime is determined:

- Determine the **Scheduled Minutes** for the day by performing the following calculation: `TOTAL SCHEDULED MINUTES * FTE`
- Determine the **Total Present Minutes** by performing the following calculation: `DISTANCE LEARNING PRESENT MINUTES + IN PERSON PRESENT MINUTES`
- Confirm that the **Total Present Minutes** are less than the Scheduled Minutes **AND** that the Distance Learning Absent Minutes are greater than 0.
  - If at least one of these is not the case, **Stop processing here.**
  - Determine the **Percent Attended** by performing the following calculation: `TOTAL PRESENT MINUTES / SCHEDULED MINUTES`

- Determine the **Modality Time** (use the first table that matches the student's situation):
  - If the **In Person Absent Minutes** are equal to 0:
    - If the student's Attendance Type is *A: Half Day Every Day*:
      - Regardless of FTE, if the Percent Attended is greater than or equal to 0.26, **do not report**.

100% FTE		75% FTE		50% FTE		25% FTE	
Percent Attended	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**	**Percent Attended**	**Modality Time**
All other situations	50	All other situations	50	All other situations	25	All other situations	25

    - If the student's Attendance Type is *B: Full Day Every Other Day, C: Full Day 3 Days a Week, D: Full Day Every Day Spring-Only, E: Full Day Every Day,* or *F: Full Day Every Day Title 1*:
      - Regardless of FTE, if the Percent Attended is greater than or equal to 0.51, **do not report**.
      - Determine the **Modality Time** by performing the following calculation: `FTE * 100`

  - In all other situations, **do not report**.

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