NE Ed-Fi Suite v3.6.1, Data Standard v4.0: Programs

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Summary

This entity represents any program designed to work in conjunction with, or as a supplement to, the main academic program. Programs may provide instruction, training, services, or benefits through federal, state, or local agencies. Programs may also include organized extracurricular activities for students.

Object Triggering Logic

Action	Business Rule(s)
Post	- When a new Blended Learning Group is created with a status set to Active and at least one student is assigned to the Blended Learning Group. - A separate record will be sent for each school when there is at least one student added to the group based on the school of the student's enrollment. - Do not send a record if the Blended Learning Group is only assigned to students with enrollments in a calendar that is marked Exclude. - Do not send a record if the Blended Learning Group is only assigned to students with enrollments in a school that is marked Exclude.

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Delete /Post	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.
Put	- modalityTypeDescriptor: Update when a Blended Learning Group is either assigned to a calendar day or removed from all calendar days in a school. - modalityTime: Recalculate whenever a Blended Learning Group is either added or removed on the Calendar Days.
Delete	- Programs records are **NOT** deleted automatically. - The Delete Tool must be used to delete a Programs record. - This will only work if all downstream data has been removed from the ODS. - If a Blended Learning Group is set to Archived

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Local Education Agencies

Dependent Resources (Downstream)

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

- Staff Program Associations
- Student CTE Program Associations
- Student Homeless Program Associations
- Student Language Instruction Program Associations
- Student Migrant Education Program Associations
- Student Neglected Or Delinquent Program Associations
- Student Program Associations
- Student Program Attendance Events
- Student School Food Service Program Associations
- Student Special Education Program Associations
- Student Title 1 Part A Program Associations

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
400: Validation of '**RESOURCE**' failed. **FIELD** is required.	An element of the JSON that is required is missing and needs to be added. - Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.

400: '**RESOURCE**' failed. **RESOURCE** reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. • Resync the resource being mentioned in the error, then resync the errored resource. Alternatively, the resource being referenced may be incorrect. This can happen with Schools and the Ed-Fi School ID being used as an example. Double check the referenced values being sent are valid.
403: Authorization denied. The claim does not have any established relationships with the requested resource.	The key/secret being used does not have permission to send a record for the resource / referenced resource. • Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources. • The referenced person (student, staff, parent, contact, etc.) has not yet been associated to the key /secret. Resync their "linking" resource (Students Student School Associations, Staffs Staff Education Organization Assignment Associations, etc.) then resync the errored resource. • The referenced person (student, staff, parent, contact, etc.) may not exist in the ODS yet. Resync the "person" resource and the "linking" resource (Students Student School Associations, Staffs Staff Education Organization Assignment Associations, etc.) then resync the errored resource.
404: Failed to delete '**RESOURCE**'. Record does not exist.	The attempt to delete a specific Ed-Fi record ID in the ODS failed because it did not exist. • This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.
409: A natural key conflict occurred when attempting to create a new resource '**RESOURCE**' with a duplicate key.	The Ed-Fi API has a natural key system alongside a standard REST ID system. This error is often protecting against the erroneous creation of a duplicate record in the API. However, it may also indicate that the natural key requirements of the Ed-Fi API have not been satisfied, and the key needs to be modified. • Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support. ◦ This can be caused by numerous issues. Our code may be attempting to send duplicate records when it should not. The natural key (bolded fields below) may not be unique enough to satisfy Ed-Fi requirements in all cases. Most times this error will require a code change to fix.

409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '**RESOURCE**' entity.	The resource that the application is attempting to delete is referenced from another entity. • Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.

500: Internal Server Error.	Something unexpected happened and no specific error message could be returned.
	
	• This issue usually occurs when the ODS is having issues. Confirm that there are no issues with the ODS the data is being sent to and then attempt to retry the errored record.
	• Contact Campus Support if 500 errors continue to occur, can be replicated consistently, and the ODS the data is being sent to has no ongoing issues.
	  ○ There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.
	  ○ There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.
	  ○ Investigation is needed in these cases as there are many different potential causes.

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. For Core Ed-Fi connections, it indicates what the data standard 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	id	*The unique identifier of the resource*	M			
2	**programName** (*string*)	*The formal name of the program of instruction, training, services, or benefits available through federal, state, or local agencies.* - Report the name of the Blended Learning Group	M	Scheduling > Blended Learning Group	blendedlearninggroup.name	✅
3	**programTypeDescriptor** (*string*)	*The type of program.* Always report 'Learning Modality' in this field for all Learning Modality Programs.	M	Hard Coded	n/a	❌

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4	**educationOrganizationReference** (*reference*)	*A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Program being reported.* Report a unique record for each school where there is at least 1 student added to the Blended Learning Group based on the school where the student is enrolled. Report from the state school number.	M	N/A	N/A	✅
5	**modalityTypeDescriptor**	*Defines the Modality that is being reported as either 'In Person' or 'Remote'.* 1. If a group is assigned to at least one day in the calendar report 'Remote". 2. Otherwise report 'In Person'.	M	System Administration > Calendar > Calendar > Days		EXT
6	**modalityTimeTypeDescriptor**	*Defines the unit(s) of time reporting the the Modality Time Descriptor.* 1. Report 'Days'.	M			EXT

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7	**modalityTime**	*The amount of time the student spends in that Modality* Look across all calendars/schedule structures the group is assigned in a school and count a unique number of days beginning with the earliest calendar start date through the max calendar end date to which the group is tied.	M	System Administration > Calendar > Calendar > Days		EXT
8	**programCost**	*The cost of the program.* This data element is optional and does not report.	O			EXT
9	characteristics	This data element is optional and does not report.	O	N/A	N/A	N/A
10	learningObjectives	This data element is optional and does not report.	O	N/A	N/A	N/A
11	learningStandards	This data element is optional and does not report.	O	N/A	N/A	N/A
12	services	This data element is optional and does not report.	O	N/A	N/A	N/A
13	sponsors	This data element is optional and does not report.	O	N/A	N/A	N/A

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Appendix

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