# CAREERPRO - FEDERAL LEARNING ACCOUNT

## REST API Manual

**29/03/2024**

**A service provided by**

asbl Sigedis vzw Place Victor Horta / Victor Hortaplein 11 (P3) Bruxelles 1060 Brussel T +32 (0)2 791 50 00 M info@sigedis.fgov.be www.sigedis.be

# Table of Contents


**1. Introduction ..... 3**

**2. Communication CareerProFLA API ..... 4**

**3. CareerPro FLA-API ..... 5**

*3.1. Concepts ..... 5*

*3.2. API calls ..... 5*

3.2.1. Colour labels HTTPS Methods for Restfull API Services ..... 5

3.2.2. API calls ..... 5

3.2.3. Definition of the objects in "/trainingRights" ..... 7

3.2.4. Definition of the objects in "/trainings" ..... 17

3.2.5. Definition of the objects in "/creditCalculation" ..... 28

*3.3. Return codes specifications ..... 39*

3.3.1. Section of Anomalies ..... 39

3.3.2. Status code 200:"Created" - with **non**-blocking anomalies (=warning anomalies) ..... 40

3.3.3. Status code 400: "Bad Request" - with blocking anomalies. ..... 41

3.3.4. Status code 500: "Internal Server Error" ..... 42

# 1. Introduction

For the FLA platform various channels were developed that are to make it as easy as possible for employers to communicate the FLA data to Sigedis.

Major companies, relying on information systems to keep their training data up-to-date, can use a web service (online channel, REST API) or file transfer (sFTP, BATCH channel) to transmit data. The transfer of data via BATCH or API is an automated proces between two IT systems. This means that there is no need for a manual user intervention to transfer the data.

The documentation below describes how this API works: the provided /paths and methods.

It is intended for IT-professionals who want to know more about the technical aspects of the FLA-API. Specialized terminology and technical examples are used to clearly explain the concepts.

This document is part of the documents that are at the disposal of the employer and its authorized representative:

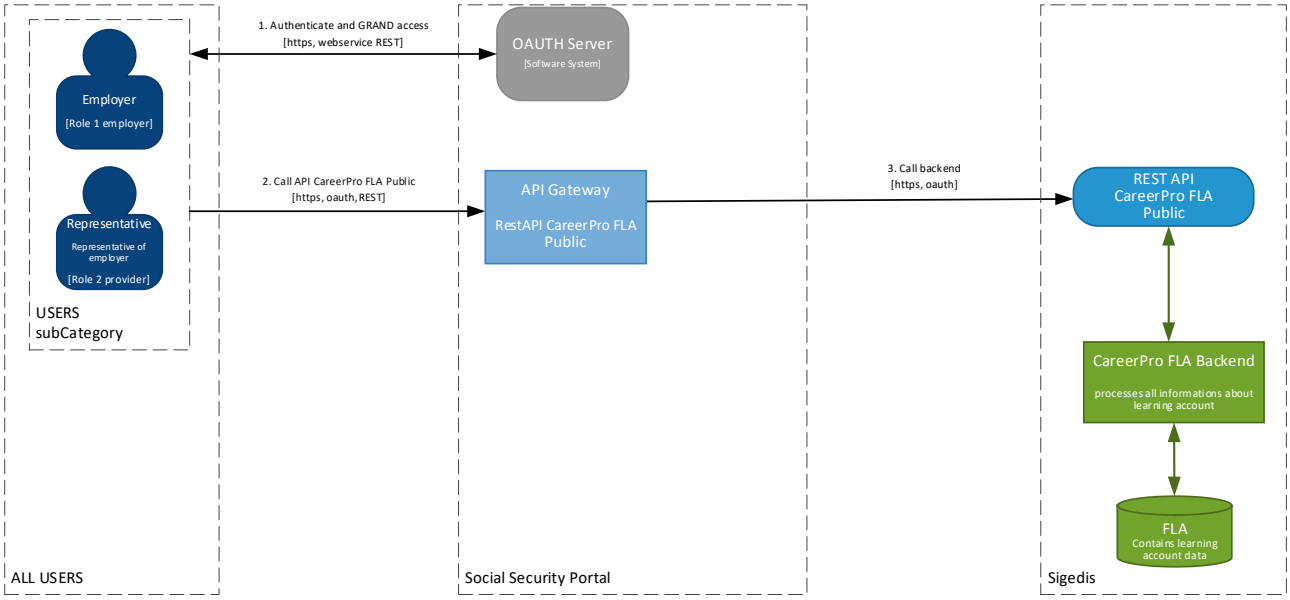
| **Document** | **Description** |
|---|---|
| BATCH Channel Manual | Document describing the necessary steps to transmit FLA data by using the BATCH channel. |
| API Channel Manual | Document describing the necessary steps to transmit FLA data by using the API channel. |
| Online Application Manual | Document describing the necessary steps to enter the FLA data by using the online application. |
| Description of the anomalies | List of all anomalies and warnings related to the declaration of FLA data. |
| Glossary | Technical documentation describing the data blocks and zones of the batch and API. |
| XSD | Technical scheme defining the BATCH structure. |
| SWAGGER | Technical scheme defining the API structure. |
| Setting up the batch channel | Document describing the necessary steps to configure the BATCH channel on the social security portal. |
| Setting up the API channel | Document describing the necessary steps to configure the web service channel (API) on the social security portal. |
| Getting access to the online application | Document describing the steps that are necessary for a user to get access to the online *CareerPro Federal Learning Account* application |

## 2. Communication CareerProFLA API

By means of the 'CareerProFLA' API the information systems of the user (employer or authorized representative) can communicate with Sigedis. More in particular through the secured channels of the Social Security portal.

*If this communication has not been configured yet, you first have to go through the 'setting up API communication' manual.*

The scheme below shows how the exchange of data between the employer (or authorized representative) and Sigedis shall be realized (high level)




1. The user (employer or authorized representative), using the configured certificate, requests an authentication token with the oAuth server of the Social Security portal.
2. The authentication token, together with the CareerProFLA API call, is transmitted to the Social Security API Gateway.
3. The API call is transmitted to Sigedis, who will process it in the CareerProFLA Backend. This processing will be done immediately.
   Once the processing is completed, the response to the API call is returned to the user (through the Social Security API Gateway)

# 3. CareerPro FLA-API

## 3.1. Concepts

Use of the CareerPro FLA-API allows a synchronous communication with Sigedis. Within this API the following data exchanges are possible:

- Indicating, correcting, deleting or consulting training rights.
- Indicating, correcting or consulting trainings followed.
- Retrieving the training credit.

In this respect three principal concepts are to be kept in mind:

1. Every API declaration or consultation relates to one employee and to one specified calendar year.
2. The declaration is an 'annual declaration'. This implies that every time all data of one and the same calendar year are to be transmitted, even if they were already transferred during a previous transfer (for the same calendar year). The declaration may contain rights and/or trainings:
    a. All rights relating to the calendar year should be declared in the annual declaration.
    b. All trainings that begin in the declaration year should be declared (even if they end in a later year). This also applies to trainings consisting of multiple periods that take place in different years. The complete training should be included in the declaration for the year in which the first period begins. Trainings that run over multiple FLA time windows (= five-year period during which training rights are accumulated) should be split: at least one training period per FLA window.
3. For every (successful) declaration or consultation the response will always contain the remaining training credit.

## 3.2. API calls

### *3.2.1. Colour labels HTTPS Methods for Restfull API Services*

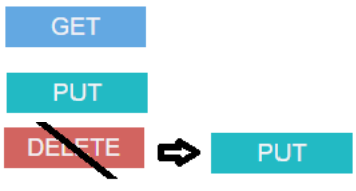
The choice was made to adopt the logics of "**POST**" and "**PATCH**" within a "**PUT"**. The call always receives a complete picture that is uploaded into the database as the current situation. From the user's perspective there is no difference and therefore no distinction is made.

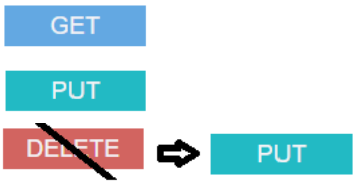
Also with respect to the "**DELETE**" method this logic is applicable and the solution is provided by means of a "**PUT**" operation.

⇨ Conclusion: the only HTTP actions processed by the API are: **GET** and **PUT**

### *3.2.2. API calls*

The three tables below indicate the description and colour codes of the remaining functional operations.

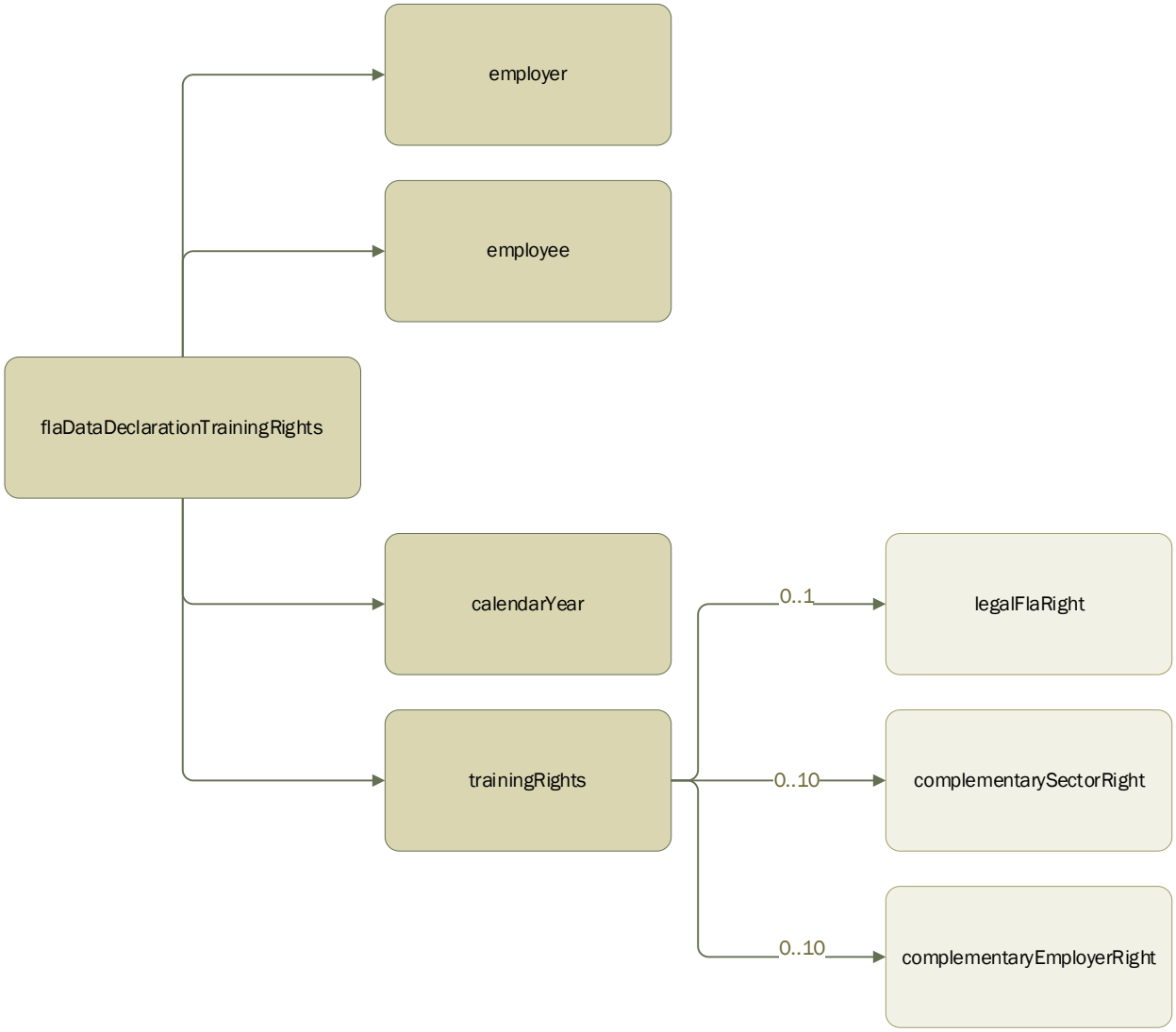
| **/trainingRights** | |
|---|---|
| By means of the 'trainingRights' API call you can declare, consult or delete your **training rights** for a specific year.<br>With respect to a declaration it is important to always transmit the complete picture.<br>More information can be found under article 3.2.3. |  |

| /trainings | |
|---|---|
| By means of the 'trainings' API call you or your authorized representative can declare, consult or delete the **training(s)** followed by an individual in a specific year. This way a history is created of the trainings followed per year and per individual.<br><br>The declaration can be fairly detailed. We save various data regarding the trainings. Some fields are compulsory, others are optional.<br><br>The trainings can also be retrieved or deleted.<br><br>More information can be found under article 3.2.4. |  |

| /creditCalculation | |
|---|---|
| By means of the "creditCalculation" API call the training credit + detail is calculated "on the fly" (in real time) based on the data that are available at the time. The training credit totals the outstanding/remaining training rights within the 5-year validity period. There are 3 types of rights that may be indicated in the detailed survey:<br><br>▪ Legal training rights<br>▪ Complementary sector rights<br>▪ Complementary employer rights<br><br>More information can be found under article 0. | |

### 3.2.3. Definition of the objects in "/trainingRights"

#### 3.2.3.1. Structure of declaring, consulting or deleting training rights




A. Employer

| Field name | Type | Presence | Description |
|---|---|---|---|
| **companyId** | long (number) - Max 10 Digits | Required | Employer's CBE number |
| **flaImportanceCode** | Integer (int32) - Max 1 Digit | Optional | Company size as defined in the 'Federal Learning Account' law.<br>1 = 1 to 4 employees<br>2 = 5 to 9<br>3 = 10 to 19<br>4 = 20 to 49<br>5 = 50 to 99<br>6 = 100 to 199<br>7 = 200 to 499<br>8 = 500 to 999<br>9 = 1000 and more |

**B.** Employee

| Field name | Type | Presence | Description |
|---|---|---|---|
| **inss** | long (number) - Max 11 Digits | Required | Employee's social security identification number. This is the national register number or bis number. |
| **language** | Integer (int32) | Optional | The employee's preferred language.<br>1 = Dutch<br>2 = French<br>3 = German<br>4 = English |
| **refHoursInWorkingDay** | Integer (int32) Min:0 – Max:1400 | Optional | The average number of hours a day (expressed in hundredths of an hour) that a full-time employee is working within the company.<br>Value between 0 (= 0 hours) and 1400 (= 14 hours).<br>7 h 36 min is indicated as 760. |

C. CalendarYear

| Field name | Type | Presence | Description |
|---|---|---|---|
| **CalendarYear** | Integer >1950 & <2100 | Required | Year covered by the declaration. All years from 1950 to 2100 are accepted. |

D. TrainingRights

| Field name | Type | Presence | Description |
|---|---|---|---|
| ***legalFlaRight*** | | | Data block with the individual training rights specified by the "Federal Learning Account" law. This number may vary according to your Collective Labour Agreement (CLA). Collective training rights are not included here. |
| **legalFlaRightDays**<br>(*) This field is required if the field legalFlaRightHours is absent.<br>This field must be empty if the field legalFlaRightHours is present. | Integer (int32) - per 0.5 day Min:0 - Max:31200 | Required* | Individual legal right expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **legalFlaRightHours**<br>(*) This field is mandatory if the field legalFlaRightDays is absent.<br>This field must be empty if the field legalFlaRightDays is present. | Integer (int32) Min:0 - Max:312000 | Required* | Individual legal right expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **workingRegulationsRegistryNbr** | "String Min:1 - Max:200" | Optional | Registration number of the collective labour agreement. |
| **jointCommissionNbr** | String - Max 9 Digits | Required | Number of the joint commission which the employee belongs to. A person may fall under various joint commissions with one and the same employer. The field is repeated for each of them (max. 10x). |

| Field name | Type | Presence | Description |
|---|---|---|---|
| | | | Format :<br>- CCC: The joint commissions; sequence of 3 digits, left aligned.<br>- CCC.CC: Joint Subcommissions; sequence of 3 digits followed by a period and 2 digits, left aligned.<br>- CCC.CC.CC: Joint sub-subcommissions; sequence of 3 digits followed by a period and 2 digits and then a period and 2 digits. |
| ***complementarySectorRight*** | | | Data block with the individual complementary sectoral training rights specified by a collective labour agreement concluded within a joint (sub)commission. These fall outside the "Federal Learning Account" law and are in addition to legal training rights, if applicable. Collective training rights are not included here.<br>There is one block per origin of law (= per joint committee). |
| **complementarySectorRightDays**<br>(*) This field is mandatory if the field complementarySectorRightHours is absent.<br>This field must be empty if the field complementarySectorRightHours is present. | Integer (int32) - per 0.5 day Min:0 - Max:31200 | Required* | Complementary sector right expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **complementarySectorRightHours**<br>(*) This field is mandatory if the field complementarySectorRightDays is absent.<br>This field must be empty if the field complementarySectorRightDays is present. | Integer (int32) Min:0 - Max:312000 | Required* | Complementary sector right expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **workingRegulationsRegistryNbr** | String - Min:1 - Max:200 | Optional | Registration number of the collective labour agreement. |
| **jointCommissionNbr** | String - Max 9 Digits | Required | Number of the joint commission which the employee belongs to. A person may fall under various joint commissions within one and the same employer. The field is repeated for each of them (max. 10x).<br>Format :<br>- CCC: The joint commissions; sequence of 3 digits, left aligned.<br>- CCC.CC: Joint Subcommissions; sequence of 3 digits followed by a period and 2 digits, left aligned.<br>- CCC.CC.CC: Joint sub-subcommissions; sequence of 3 digits followed by a period and 2 digits and then a period and 2 digits. |

| Field name | Type | Presence | Description |
|---|---|---|---|
| activityCode | Integer (int32) - Max 5 Digits | Required | NACE code representing the employer's economic activity.<br>Example: "1120" for the activity of "Growing rice". |
| ***complementaryEmployerRight*** | | Optional | Data block with the individual complementary training rights determined by the employer on the basis of an employment regulation at company level. These are outside the "Federal Learning Account" law and are in addition to legal training rights, if applicable. Collective training rights are not included here.<br>There is one block per origin of entitlement (= per labour regulations). |
| **complementaryEmployerRightDays**<br>(*) This field is mandatory if the field complementaryEmployerRightHours is absent.<br>This field must be empty if the field complementaryEmployerRightHours is present. | Integer (int32) - per 0.5 day Min:0 - Max:31200 | Required* | Complementary employer right expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **complementaryEmployerRightHours**<br>(*) This field is mandatory if the field complementaryEmployerRightDays is absent.<br>This field must be empty if the field complementaryEmployerRightDays is present. | Integer (int32) Min:0 - Max:312000 | Required* | Complementary employer right expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **workingRegulationsRegistryNbr** | String - Min:1 - Max:200 | Required | Registration number of the collective labour agreement. |
| **jointCommissionNbr** | String - Max 9 Digits | Required | Number of the joint commission which the employee belongs to. A person may fall under various joint commissions within one and the same employer. The field is repeated for each of them (max. 10x).<br>Format :<br>- CCC: The joint commissions; sequence of 3 digits, left aligned.<br>- CCC.CC: Joint Subcommissions; sequence of 3 digits followed by a period and 2 digits, left aligned.<br>- CCC.CC.CC: Joint sub-subcommissions; sequence of 3 digits followed by a period and 2 digits and then a period and 2 digits. |

#### *3.2.3.2. PUT /trainingRights*

During the training rights input a year declaration/"year picture" of the rights is to be uploaded, with respect to a specific employee and a specific year. The declaration is made by using the individual's INSS number and your CBE number.

The declaration of rights can be done in hours or in days.

A. Path

/employers/{companyId}/employees/{inss}/calendarYears/{calendarYear}/trainingRights

B. Example of scenarios

- ✓ Entering a new declaration of a year attestation.
- ✓ Modifying the rights after for example an adaptation of the collective labour agreement.

C. Example input

**Méthode**: PUT

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1
/employers/880820673/employees/81511716525/calendarYears/2024/trainingRights

**Body:**


```
{
   "employer": {
      "companyId": 880820673,
      "flaImportanceCode": 8
   },
   "employee": {
      "inss": 81511716525,
      "language": 1,
      "refHoursInWorkingDay": 800
   },
   "calendarYear": 2024,
   "trainingRights": {
      "legalFlaRight": {
         "legalFlaRightHours": 3800,
         "workingRegulationsRegistryNbr": "181682/CO/200",
         "jointCommissionNbr": [
            "202.01"
         ]
      },
      "complementarySectorRight": [
         {
            "complementarySectorRightHours": 4000,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": "202.01",
            "activityCode": 228
         }
      ],
      "complementaryEmployerRight": [
         {
            "complementaryEmployerRightHours": 4000,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": "200"
         }
      ]
   }
}
```


The content of the body is also available in the sample file « PutTrainingRight_input.json».

D. Example output


```
{
   "flaDataDeclaration": {
      "employer": {
         "companyId": 880820673,
         "flaImportanceCode": 8
      },
      "employee": {
         "inss": 81511716525,
         "language": 1,
         "refHoursInWorkingDay": 800
      },
      "calendarYear": 2024,
      "trainingRights": {
         "legalFlaRight": {
            "legalFlaRightHours": 3800,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": [
               "202.01"
            ]
         },
         "complementarySectorRight": [
            {
               "complementarySectorRightHours": 4000,
               "workingRegulationsRegistryNbr": "181682/CO/200",
               "jointCommissionNbr": "202.01",
               "activityCode": 228
            }
         ],
         "complementaryEmployerRight": [
            {
               "complementaryEmployerRightHours": 4000,
               "workingRegulationsRegistryNbr": "181682/CO/200",
               "jointCommissionNbr": "200"
            }
         ]
      }
   },
   "anomalies": [],
   "flaCreditCalculation": {…. Voir 3.2.5. pour plus de détail….      }
}
```


The content of the body is also available in the sample file « PutTrainingRight_output.json»

E. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

#### *3.2.3.3. GET /trainingRights*

The API is called to show the training days/hours of an individual as declared by you for a specific year. The input consists of a CBE number, an INSS number and the year.

A. Path

/employers/{companyId}/employees/{inss}/calendarYears/{calendarYear}/trainingRights

B. Example scenarios

- ✓ One of your applications using the REST API, displays the values of an employee.
- ✓ You make a declaration and afterwards you want to verify that you did not make a mistake in the declaration.

C. Example input

**Méthode**: GET

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1
/employers/880820673/employees/81511716525/calendarYears/2024/trainingRights

**Body:** No Body

D. Example output


```
{
   "flaDataDeclaration": {
      "employer": {
         "companyId": 880820673,
         "flaImportanceCode": 8
      },
      "employee": {
         "inss": 81511716525,
         "language": 1,
         "refHoursInWorkingDay": 800
      },
      "calendarYear": 2024,
      "trainingRights": {
         "legalFlaRight": {
            "legalFlaRightHours": 3800,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": [
               "202.01"
            ]
         },
         "complementarySectorRight": [
            {
               "complementarySectorRightHours": 4000,
               "workingRegulationsRegistryNbr": "181682/CO/200",
               "jointCommissionNbr": "202.01",
               "activityCode": 228
            }
         ],
         "complementaryEmployerRight": [
            {
               "complementaryEmployerRightHours": 4000,
               "workingRegulationsRegistryNbr": "181682/CO/200",
               "jointCommissionNbr": "200"
            }
         ]
      }
   },
   "anomalies": [],
   "flaCreditCalculation": { …. Voir 3.2.5. pour plus de détail….   }
}
```


The content of the body is also available in the sample file « GetTrainingRight_output.json ».

E. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

#### *3.2.3.4. DELETE /trainingRights (realized through PUT)*

The PUT method is also called to remove an individual's training rights. The call parameters consist of a BCE number, a NISS number and the year.

Deleting training rights can be done in two ways:

- Via deactivation. This method consists of sending a new photo with only the rights to be retained. Rights missing from this submission are deactivated.

**Please note, if the call does not contain any rights (= “empty photo”), then all rights for the specified year will be deleted.**

- By setting the value to 0 hours (or 0 days) for the rights to be deleted.

**The recommended solution is by deactivation.**

A. Path

/employers/{companyId}/employees/{inss}/calendarYears/{calendarYear}/trainingRights

B. Example scenarios

✓ You delete an employee’s days to perform a correction.

C. Example 1 - input (via deactivation)

In this example all the training rights from 2024 are deleted by deactivation.

**Method**: PUT

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1
/employers/880820673/employees/81511716525/calendarYears/2024/trainingRights

**Body:**


```
{
   "employer": {
      "companyId": 880820673
   },
   "employee": {
      "inss": 81511716525
   },
   "calendarYear": 2024
}
```


The content of the body is also available in the sample file « PutTrainingRight_deleteByDesactivation_input.json»

D. Example 1 - output (via deactivation)


```
{
    "flaDataDeclaration": {
        "employer": {
            "companyId": 880820673
        },
        "employee": {
            "inss": 81511716525
        },
        "calendarYear": 2024
    },
    "anomalies": [],
    "flaCreditCalculation": {   …. Voir 3.2.5. pour plus de détail….    }
}
```


The content of the body is also available in the sample file « PutTrainingRight_deleteByDesactivation_outPut.json»

E. Example 2 - input (via value 0)

In this example, certain training rights from 2024 are deleted by putting « 0 » for the rights to be deleted.

**Method**: PUT

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1 /employers/880820673/employees/81511716525/calendarYears/2024/trainingRights

**Body:**


```
{
   "employer": {
      "companyId": 880820673
   },
   "employee": {
      "inss": 81511716525
   },
   "calendarYear": 2024,
   "trainingRights": {
      "legalFlaRight": {
         "legalFlaRightHours": 0,
         "workingRegulationsRegistryNbr": "181682/CO/200",
         "jointCommissionNbr": [
            "202.01"
         ]
      },
      "complementarySectorRight": [
         {
            "complementarySectorRightHours": 0,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": "202.01",
            "activityCode": 228
         }
      ],
      "complementaryEmployerRight": [
         {
            "complementaryEmployerRightHours": 0,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": "200"
         }
      ]
   }
}
```


The content of the body is also available in the sample file « PutTrainingRight_deleteBy0Value_input.json»

F. Example 2 - output (via value 0)


```
{
   "flaDataDeclaration": {
      "employer": {
         "companyId": 880820673
      },
      "employee": {
         "inss": 81511716525
      },
      "calendarYear": 2024,
      "trainingRights": {
         "legalFlaRight": {
            "legalFlaRightHours": 0,
            "workingRegulationsRegistryNbr": "181682/CO/200",
            "jointCommissionNbr": [
               "202.01"
            ]
         },
         "complementarySectorRight": [
            {
               "complementarySectorRightHours": 0,
               "workingRegulationsRegistryNbr": "181682/CO/200",
               "jointCommissionNbr": "202.01",
               "activityCode": 228
            }
         ],
         "complementaryEmployerRight": [
            {
               "complementaryEmployerRightHours": 0,
               "workingRegulationsRegistryNbr": "181682/CO/200",
               "jointCommissionNbr": "200"
            }
         ]
      }
   },
   "anomalies": [],
   "flaCreditCalculation": {   …. Voir 3.2.5. pour plus de détail….        }
}
```


The content of the body is also available in the sample file « PutTrainingRight_deleteBy0Value_output.json»

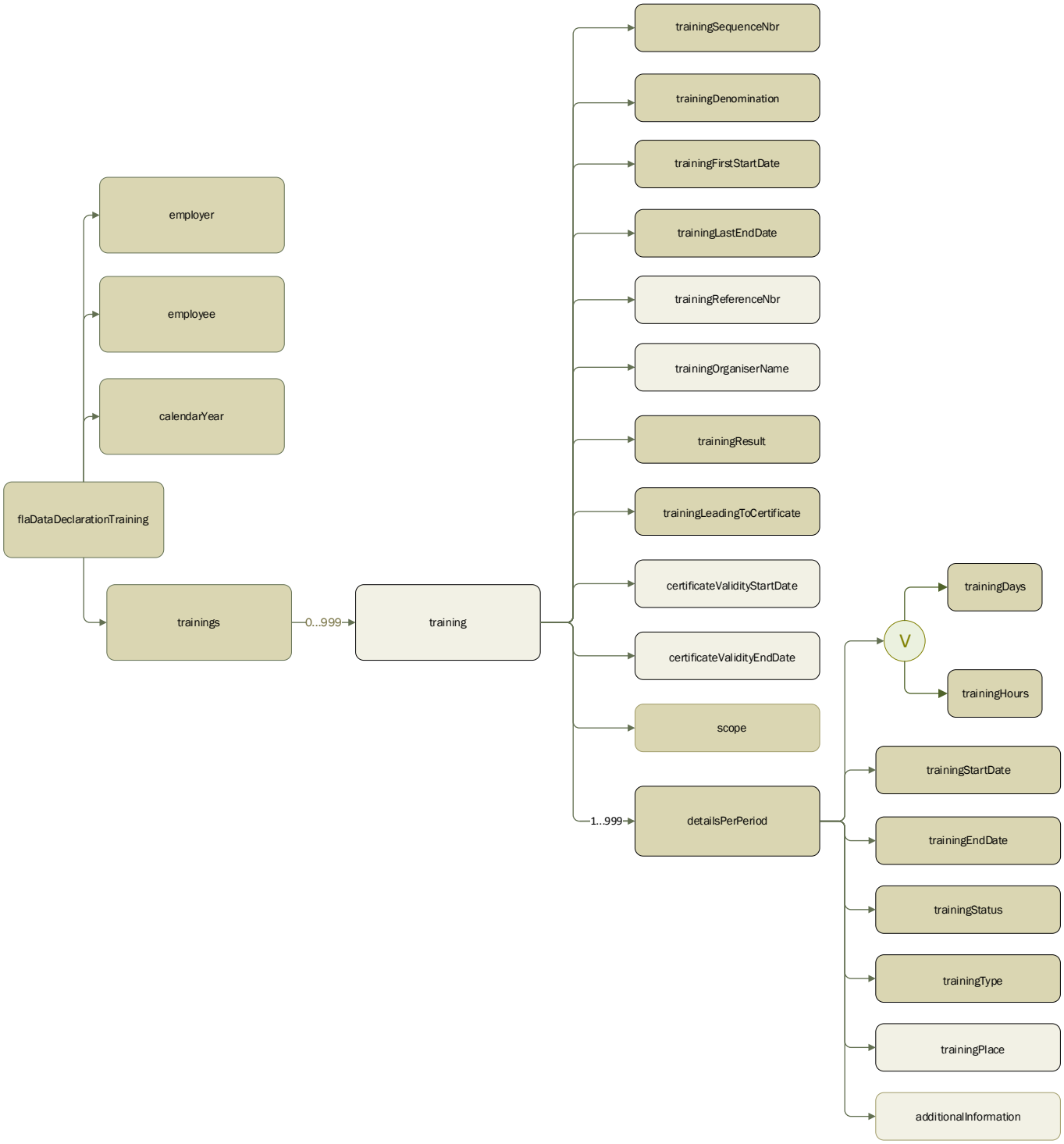
G. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

### 3.2.4. Definition of the objects in "/trainings"

#### 3.2.4.1. Structure of declaring, consulting or deleting trainings



A. Employer

| Field name | Type | Presence | Description |
|---|---|---|---|
| **companyId** | long (number) - Max 10 Digits | Required | Employer's CBE number |
| **flaImportanceCode** | Integer (int32) - Max 1 Digit | Optional | Company size as defined in the 'Federal Learning Account' law.<br>1 = 1 to 4 employees<br>2 = 5 to 9<br>3 = 10 to 19<br>4 = 20 to 49<br>5 = 50 to 99<br>6 = 100 to 199<br>7 = 200 to 499<br>8 = 500 to 999<br>9 = 1000 and more |

B. Employee

| Field name | Type | Presence | Description |
|---|---|---|---|
| **Inss** | long (number) - Max 11 Digits | Required | Employee's social security identification number. This is the national register number or bis number. |
| **language** | Integer (int32) | Optional | The employee's preferred language.<br>1 = Dutch<br>2 = French<br>3 = German<br>4 = English |
| **refHoursInWorkingDay** | Integer (int32) Min:0 – Max:1400 | Optional | The average number of hours a day (expressed in hundredths of an hour) that a full-time employee is working within the company.<br>Value between 0 (= 0 hours) and 1400 (= 14 hours).<br>7 h 36 min is indicated as 760. |

C. CalendarYear

| Field name | Type | Presence | Description |
|---|---|---|---|
| **calendarYear** | Integer >1950 & <2100 | Required | Year covered by the declaration. All years from 1950 to 2100 are accepted. |

D. Training

| Field name | Type | Presence | Description |
|---|---|---|---|
| **trainingSequenceNbr** | Integer (int32) Max:999 | Required | Technical sequence number. The value has to be unique in the same declaration. |
| **trainingDenomination** | String (min 3 - max500) | Required | Denomination of the training. |
| **trainingFirstStartDate** | Date | Required | First start date of the training. For trainings that are declared in multiple training periods, this is the start date of the earliest period. |
| **trainingLastEndDate** | Date | Required | Last end date of the training. For trainings that are declared in multiple training periods, this is the end date of the last period. |
| **trainingReferenceNbr** | String - | Optional | Reference of the training (employer's internal |

| Field name | Type | Presence | Description |
|---|---|---|---|
| | max500 | | reference number) |
| **trainingOrganiserName** | String - max500 | Optional | Name of the organizer of the training. |
| **trainingResult** | Integer (int32) 1/9 | Required | Zone specifying the result of the training:<br>1 = The training was 'successful'<br>2 = The training was 'failed'<br>3 = The training was interrupted<br>4 = The training was completed but had no results<br>5 = The training has not yet been completed |
| **trainingLeadingToCertificate** | Integer (int32) | Required | Zone indicating whether the training has resulted in obtaining a certificate (or another performance certificate such as a diploma, etc.).<br>1 = The training does not lead to a certificate<br>2 = The training leads to a certificate |
| **certificateValidityStartDate** | Date | Optional | Start date of the validity of the certificate. |
| **certificateValidityEndDate** | Date | Optional | End date of the validity of the certificate. |
| **scope** | Integer (int32) 1/9 | Required | Zone indicating whether or not the training falls within the scope of the “Federal Learning Account”. This zone allows you to know whether the training is to be taken into consideration when calculating the remaining training credit.<br>1= Training falls within the FLA scope<br>2= Training does not fall within the FLA scope |
| ***detailsPerPeriod*** | | | Data block containing details about the training period |
| **trainingDays**<br>*detail of the notion Required:<br>This field is required if the field trainingHours is absent.<br>This field is prohibited if the field trainingHours is present. | Integer (int32) - per 0,5 dag Min:0 – Max:156000 | Required* | Number of training days of the training period expressed in hundredths of days with a degree of accuracy up to "half a day".<br>Value between 0 (= 0 days) and 156000 (= 1560 days = 5 years with 312 days). |
| **trainingHours**<br>***detail of the notion Required:<br>This field is mandatory if the field trainingDays is absent.<br>This field is prohibited if field trainingDays is present. | Integer (int32) Min:0 - Max:1560000 | Required* | Number of training hours of the training period expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 1560000 (= 15600 hours = 5 years of 312 days of 10 hours). |
| **trainingStartDate** | Date | Required | Start date of the training period. |
| **trainingEndDate** | Date | Required | End date of the training period. |
| **trainingStatus** | Integer (int32) 1/9 | Required | Zone specifying the status of the training:<br>1 = Followed<br>2 = Not followed<br>3 = Not suitable for the employee<br>4 = Reserved for the employee (not yet followed). |
| **trainingType** | Integer (int32) 1/9 | Required | Field defining the type of training:<br>1 = formal training<br>2 = informal training |

| Field name | Type | Presence | Description |
|---|---|---|---|
| **trainingPlace** | Integer (int32)<br>1/9 | Optional | Place of the training:<br>1 = On-site training<br>2 = Off-site training<br>3 = Online training<br>4 = Abroad (outside Belgium) |
| **additionalInformation** | String<br>(max500) | Optional | Free text area in which additional information about the training period can be indicated. Depending on the needs of the declarant, this may be the reference of the training period, the title of the training module that is/will be followed during the (specific) training period, etc. |

#### *3.2.4.2. PUT /trainings*

**PUT** /trainings allows you or your authorized representative to upload the trainings followed for an individual. Some of the mandatory fields that must be indicated are the start and end date of the training. It is necessary also to indicate the duration in days or in hours. In the database this will be converted into hours by the individual's reference. It is also important to indicate the denomination of the training, as well as the type of training and whether or not it leads to a certificate. If a certificate is issued, it is important to know whether and if so, when it may expire.

Optional information is the reference number, the place where the training was followed and the organiser of the training.

A. Path

/employers/{companyId}/employees/{inss}/calendarYears/{calendarYear}/trainings

B. Example scenarios

- ✓ The first declaration of the trainings already followed by you.
- ✓ Declaration of new trainings you followed.

C. Input example

**Method**: PUT

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1
/employers/880820673/employees/81511716525/calendarYears/2024/trainings

**Body:**


```
{
   "employer": {
      "companyId": 880820673
   },
   "employee": {
      "inss": 81511716525,
      "refHoursInWorkingDay": 800
   },
   "calendarYear": 2024,
   "trainings": [
      {
         "trainingSequenceNbr": 122,
         "trainingDenomination": "webmaster",
         "trainingFirstStartDate": "2024-02-01",
         "trainingLastEndDate": "2024-02-05",
         "trainingReferenceNbr": 122,
         "trainingOrganiserName": "Syntra in opdracht van VDAB",
         "trainingResult": 1,
         "trainingLeadingToCertificate": 2,
         "certificateValidityStartDate": "2024-02-05",
         "certificateValidityEndDate": "2034-02-05",
         "scope": 1,
         "detailsPerPeriod": [
            {
               "trainingHours": 500,
```

```
                "trainingStartDate": "2024-02-01",
                "trainingEndDate": "2024-02-05",
                "trainingStatus": 1,
                "trainingType": 2,
                "trainingPlace": 1
            }
        ]
    }
  ]
}
```


The content of the body is also available in the sample file « PutTraining_input.json».

D. Output example


```
{
  "flaDataDeclaration": {
    "employer": {
      "companyId": 880820673
    },
    "employee": {
      "inss": 81511716525,
      "refHoursInWorkingDay": 800
    },
    "calendarYear": 2024,
    "trainings": [
      {
        "trainingSequenceNbr": 122,
        "trainingDenomination": "webmaster",
        "trainingFirstStartDate": "2024-02-01",
        "trainingLastEndDate": "2024-02-05",
        "trainingReferenceNbr": "122",
        "trainingOrganiserName": "Syntra in opdracht van VDAB",
        "trainingResult": 1,
        "trainingLeadingToCertificate": 2,
        "certificateValidityStartDate": "2024-02-05",
        "certificateValidityEndDate": "2034-02-05",
        "scope": 1,
        "detailsPerPeriod": [
          {
            "trainingHours": 500,
            "trainingStartDate": "2024-02-01",
            "trainingEndDate": "2024-02-05",
            "trainingStatus": 1,
            "trainingType": 2,
            "trainingPlace": 1
          }
        ]
      }
    ]
  },
  "anomalies": [],
  "flaCreditCalculation": { …Voir 3.2.5. pour plus de détail….      }
}
```


The content of the body is also available in the sample file « PutTraining_output.json».

E. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

#### *3.2.4.3. GET /trainings*

The API is called to obtain an individual's list of followed trainings. The input consists of the company's CBE number, the employee's INSS number and the year for which the trainings are requested. The response contains the list of declared trainings.

A. Path

/employers/{companyId}/employees/{inss}/calendarYears/{calendarYear}/trainings

B. Example scenarios

✓ You have entered the trainings followed and you want the verify the entered data.

C. Input example

**Method**: GET

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1
/employers/880820673/employees/81511716525/calendarYears/2024/trainings

**Body:** No body

D. Output example


```
{
   "flaDataDeclaration": {
      "employer": {
         "companyId": 880820673
      },
      "employee": {
         "inss": 81511716525,
         "refHoursInWorkingDay": 800
      },
      "calendarYear": 2024,
      "trainings": [
         {
            "trainingDenomination": "webmaster",
            "trainingFirstStartDate": "2024-02-01",
            "trainingLastEndDate": "2024-02-05",
            "trainingReferenceNbr": "122",
            "trainingOrganiserName": "Syntra in opdracht van VDAB",
            "trainingResult": 1,
            "trainingLeadingToCertificate": 2,
            "certificateValidityStartDate": "2024-02-05",
            "certificateValidityEndDate": "2034-02-05",
            "scope": 1,
            "detailsPerPeriod": [
               {
                  "trainingHours": 500,
                  "trainingStartDate": "2024-02-01",
                  "trainingEndDate": "2024-02-05",
                  "trainingStatus": 1,
                  "trainingType": 2,
                  "trainingPlace": 1
               }
            ]
         }
      ]
   },
   "anomalies": [],
   "flaCreditCalculation": {   …Voir 3.2.5. pour plus de détail….        }
}
```


The content of the body is also available in the sample file « GetTraining_output.json».

E. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

#### *3.2.4.4. DELETE /trainings (compensated by PUT)*

It may be necessary to delete a training, for example if the training was entered incorrectly. A new ‘picture’ will have to be uploaded by means of a **PUT**. In the front-end of your application or a partner’s application the indicated training can be really deleted. This must be compensated in the back-end by transmitting the ‘picture’ once more without the training that you or your authorized representative wishes to delete => You perform a new API call with a ‘picture’ without the training concerned.

**A word of explanation by means of an example:**

On 1/1/2024 you enter the following trainings with respect to Hammilton Lewis:

I. Interview techniques
II. Dutch for beginners
III. English for foreigners
IV. Geography

On 01/02/2024 the employer notices that Hammilton Lewis has not followed training III due to illness. In the front-end of your application, you can simply delete training III. In reality this is solved by uploading a new picture with training I, II and IV (=> You perform a **PUT** /trainings).

A. Path

/employers/{companyId}/employees/{inss}/calendarYears/{calendarYear}/trainings

B. Example scenarios

✓ You delete the training because the training was wrongly declared.

C. Original input with 4 trainings


```
{
  "employer": {
    "companyId": 880820673
  },
  "employee": {
    "inss": 81511716525
  },
  "calendarYear": 2022,
  "trainings": [
    {
      "trainingSequenceNbr": 122,
      "trainingDenomination": "Formation aux techniques d'interview",
      "trainingFirstStartDate": "2022-08-19",
      "trainingLastEndDate": "2022-08-19",
      "trainingReferenceNbr": 122,
      "trainingOrganiserName": " VDAB",
      "trainingResult": 1,
      "trainingLeadingToCertificate": 2,
      "certificateValidityStartDate": "2022-08-19",
      "certificateValidityEndDate": "2032-08-19",
      "scope": 1,
      "detailsPerPeriod": [{
        "trainingHours": 800,
        "trainingStartDate": "2022-08-19",
        "trainingEndDate": "2022-08-19",
        "trainingStatus": 1,
        "trainingType": 1,
        "trainingPlace": 4
      }]
```

```
    },
    {
      "trainingSequenceNbr": 123,
      "trainingDenomination": "Néerlandais pour débutants",
      "trainingFirstStartDate": "2022-08-29",
      "trainingLastEndDate": "2022-09-09",
      "trainingReferenceNbr": 416,
      "trainingOrganiserName": "Cevora",
      "trainingResult": 1,
      "trainingLeadingToCertificate": 1,
      "scope": 1,
      "detailsPerPeriod": [{
        "trainingHours": 1600,
        "trainingStartDate": "2022-08-29",
        "trainingEndDate": "2022-09-09",
        "trainingStatus": 1,
        "trainingType": 1,
        "trainingPlace": 2
      }]
    },
    {
      "trainingSequenceNbr": 124,
      "trainingDenomination": "Anglais pour les non-natifs",
      "trainingFirstStartDate": "2022-11-02",
      "trainingLastEndDate": "2022-11-10",
      "trainingReferenceNbr": 19,
      "trainingOrganiserName": "Cevora",
      "trainingResult": 1,
      "trainingLeadingToCertificate": 1,
      "scope": 1,
      "detailsPerPeriod": [{
        "trainingHours": 800,
        "trainingStartDate": "2022-11-02",
        "trainingEndDate": "2022-11-10",
        "trainingStatus": 1,
        "trainingType": 1,
        "trainingPlace": 2
      }]
    },
    {
      "trainingSequenceNbr": 125,
      "trainingDenomination": "Géographie",
      "trainingFirstStartDate": "2022-12-01",
      "trainingLastEndDate": "2022-12-02",
      "trainingReferenceNbr": 19,
      "trainingOrganiserName": "Universiteit Gent",
      "trainingResult": 1,
      "trainingLeadingToCertificate": 1,
      "scope": 1,
      "detailsPerPeriod": [{
        "trainingHours": 400,
        "trainingStartDate": "2022-12-01",
        "trainingEndDate": "2022-12-02",
        "trainingStatus": 1,
        "trainingType": 2,
        "trainingPlace": 3
      }]
    }
  ]
}
```


The content of the body is also available in the sample file «PutTraining_Delete_1_input.json».

D. Input for the deletion = uploading new picture!


```
{
   "employer": {
      "companyId": 880820673
   },
   "employee": {
      "inss": 81511716525
   },
   "calendarYear": 2022,
   "trainings": [
      {
         "trainingSequenceNbr": 122,
         "trainingDenomination": "Formation aux techniques d'interview",
         "trainingFirstStartDate": "2022-08-19",
         "trainingLastEndDate": "2022-08-19",
         "trainingReferenceNbr": 122,
         "trainingOrganiserName": "VDAB",
         "trainingResult": 1,
         "trainingLeadingToCertificate": 2,
         "certificateValidityStartDate": "2022-08-19",
         "certificateValidityEndDate": "2032-08-19",
         "scope": 1,
         "detailsPerPeriod": [
            {
               "trainingHours": 800,
               "trainingStartDate": "2022-08-19",
               "trainingEndDate": "2022-08-19",
               "trainingStatus": 1,
               "trainingType": 1,
               "trainingPlace": 4
            }
         ]
      },
      {
         "trainingSequenceNbr": 123,
         "trainingDenomination": "Néerlandais pour débutants",
         "trainingFirstStartDate": "2022-08-29",
         "trainingLastEndDate": "2022-09-09",
         "trainingReferenceNbr": 416,
         "trainingOrganiserName": "Cevora",
         "trainingResult": 1,
         "trainingLeadingToCertificate": 1,
         "scope": 1,
         "detailsPerPeriod": [
            {
               "trainingHours": 1600,
               "trainingStartDate": "2022-08-29",
               "trainingEndDate": "2022-09-09",
               "trainingStatus": 1,
               "trainingType": 1,
               "trainingPlace": 2
            }
         ]
      },
      {
         "trainingSequenceNbr": 125,
         "trainingDenomination": "Géographie",
         "trainingFirstStartDate": "2022-12-01",
         "trainingLastEndDate": "2022-12-02",
         "trainingReferenceNbr": 19,
         "trainingOrganiserName": "Universiteit Gent",
         "trainingResult": 1,
         "trainingLeadingToCertificate": 1,
         "scope": 1,
         "detailsPerPeriod": [
            {
               "trainingHours": 400,
               "trainingStartDate": "2022-12-01",
               "trainingEndDate": "2022-12-02",
               "trainingStatus": 1,
               "trainingType": 2,
               "trainingPlace": 3
            }
```

```
        ]
      }
   ]
}
```

The content of the body is also available in the sample file «PutTraining_Delete_2_input.json».

E. Example output


```
{
   "flaDataDeclaration": {
      "employer": {
         "companyId": 880820673
      },
      "employee": {
         "inss": 81511716525
      },
      "calendarYear": 2022,
      "trainings": [
         {
            "trainingSequenceNbr": 122,
            "trainingDenomination": "Formation aux techniques d'interview",
            "trainingFirstStartDate": "2022-08-19",
            "trainingLastEndDate": "2022-08-19",
            "trainingReferenceNbr": "122",
            "trainingOrganiserName": "VDAB",
            "trainingResult": 1,
            "trainingLeadingToCertificate": 2,
            "certificateValidityStartDate": "2022-08-19",
            "certificateValidityEndDate": "2032-08-19",
            "scope": 1,
            "detailsPerPeriod": [
               {
                  "trainingHours": 800,
                  "trainingStartDate": "2022-08-19",
                  "trainingEndDate": "2022-08-19",
                  "trainingStatus": 1,
                  "trainingType": 1,
                  "trainingPlace": 4
               }
            ]
         },
         {
            "trainingSequenceNbr": 123,
            "trainingDenomination": "Néerlandais pour débutants",
            "trainingFirstStartDate": "2022-08-29",
            "trainingLastEndDate": "2022-09-09",
            "trainingReferenceNbr": "416",
            "trainingOrganiserName": "Cevora",
            "trainingResult": 1,
            "trainingLeadingToCertificate": 1,
            "scope": 1,
            "detailsPerPeriod": [
               {
                  "trainingHours": 1600,
                  "trainingStartDate": "2022-08-29",
                  "trainingEndDate": "2022-09-09",
                  "trainingStatus": 1,
                  "trainingType": 1,
                  "trainingPlace": 2
               }
            ]
         },
         {
            "trainingSequenceNbr": 125,
            "trainingDenomination": "Géographie",
            "trainingFirstStartDate": "2022-12-01",
            "trainingLastEndDate": "2022-12-02",
            "trainingReferenceNbr": "19",
            "trainingOrganiserName": "Universiteit Gent",
            "trainingResult": 1,
            "trainingLeadingToCertificate": 1,
            "scope": 1,
            "detailsPerPeriod": [
               {
                  "trainingHours": 400,
                  "trainingStartDate": "2022-12-01",
```

```
                "trainingEndDate": "2022-12-02",
                "trainingStatus": 1,
                "trainingType": 2,
                "trainingPlace": 3
            }
        ]
    }
  ]
 },
 "anomalies": [],
 "flaCreditCalculation": { …Voir 3.2.5. pour plus de détail….      }
}
```


The content of the body is also available in the sample file «PutTraining_Delete_2_outPut.json».

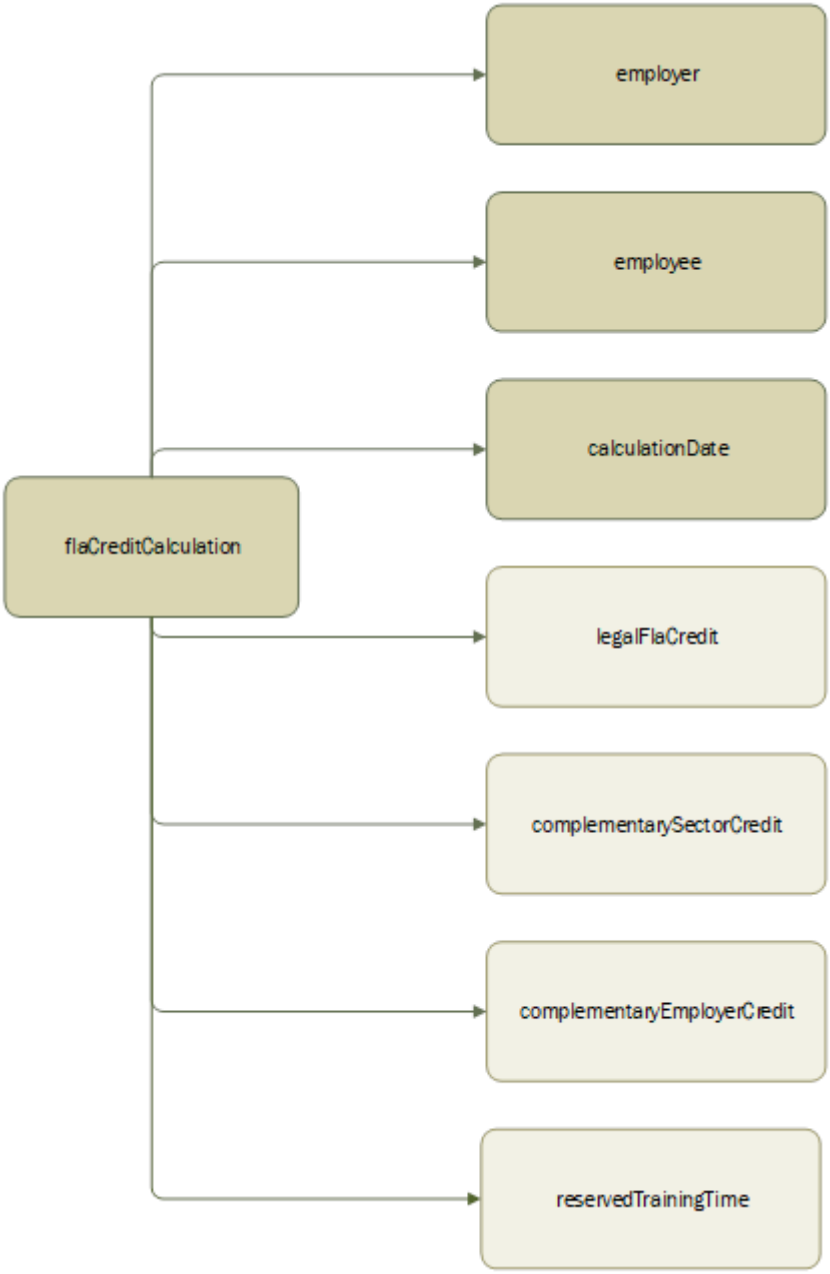
F. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

### 3.2.5. Definition of the objects in "/creditCalculation"

#### 3.2.5.1. Structure of consulting the Training Credit



A. Employer

| Field name | Type | Presence | Description |
|---|---|---|---|
| **companyId** | long (number) - Max 10 Digits | Required | Employer's CBE number |
| **flaImportanceCode** | Integer (int32) | Optional | Company size as defined in the 'Federal Learning Account' law.<br>1 = 1 to 4 employees<br>2 = 5 to 9<br>3 = 10 to 19<br>4 = 20 to 49<br>5 = 50 to 99<br>6 = 100 to 199<br>7 = 200 to 499<br>8 = 500 to 999<br>9 = 1000 and more |

B. Employee

| Field name | Type | Presence | Description |
|---|---|---|---|
| **Inss** | long (number) - Max 11 Digits | Required | Employee's social security identification number. This is the national register number or bis number. |
| **language** | Integer (int32) | Optional | The employee's preferred language.<br>1 = Dutch<br>2 = French<br>3 = German<br>4 = English |
| **refHoursInWorkingDay** | Integer (int32) Min:0 – Max:1400 | Optional | The average number of hours a day (expressed in hundredths of an hour) that a full-time employee is working within the company.<br>Value between 0 (= 0 hours) and 1400 (= 14 hours).<br>7 h 36 min is indicated as 760. |

C. CalculationDate

| Field name | Type | Presence | Description |
|---|---|---|---|
| **calculationDate** | DateTime | Required | Indicates the date and time on which the training credit was calculated.<br>Format : YYYY-MM-DDTH24:MI:SS<br>Example : 2022-12-01T14:26:01 |

D. LegalFlaCredit (optional)

| Field name | Type | Presence | Description |
|---|---|---|---|
| ***legalFlaCreditPerYear*** | | Optional | Data block with the details of the legal credit calculation for a specific year.<br>There is one block per year with a maximum of 5 blocks. |
| **calendarYear** | Integer >1950 & >2100 | Required | Year covered by the detailed calculation. |

| Field name | Type | Presence | Description |
|---|---|---|---|
| **initialLegalFlaCreditDays**<br>(*) The fields (the block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays are filled in if the fields (block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours are not present.<br><br>The fields (the block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays will not be present if there is a value in the fields (the block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Legal annual credit based on the declared legal right expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **remainingLegalFlaCreditDays**<br>(*) The fields (the block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays are filled in if the fields (block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours are not present.<br><br>The fields (the block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays will not be present if there is a value in the fields (the block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours. | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Remaining annual legal credit. It is calculated on the basis of the declared legal rights and the trainings followed.<br>Expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **initialLegalFlaCreditHours**<br>(*) The fields (block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours are filled in if the fields (block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays are not present.<br><br>The fields (block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours will not be present if a value is present in the fields (block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Legal annual credit based on the declared legal right.<br>It is expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 312 hours). |

| Field name | Type | Presence | Description |
|---|---|---|---|
| **remainingLegalFlaCreditHours**<br>(*) The fields (block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours are filled in if the fields (block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays are not present.<br><br>The fields (block) initialLegalFlaCreditHours and remainingLegalFlaCreditHours will not be present if a value is present in the fields (block) initialLegalFlaCreditDays and remainingLegalFlaCreditDays.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Remaining annual legal credit. It is calculated on the basis of the declared legal rights and the trainings followed.<br>Expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **totalLegalFlaCreditDays**<br>(*) This field is filled in if the field totalLegalFlaCredithours is not present.<br>This field will not be present if the field totalLegalFlaCredithours is present. | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Sum of the remaining annual legal credits (over a period of five years). Hence this number is the legal credit that is available at the moment of calculation. Expressed in hundredths of a day with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **totalLegalFlaCredithours**<br>(*) This field is filled in if the field totalLegalFlaCreditDays is not present.<br>This field will not be present if the field totalLegalFlaCreditDays is present.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Sum of the remaining annual legal credits (over a period of five years). Hence this number is the legal credit that is available at the moment of calculation. Expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |

E. ComplementarySectorCredit (Optional)

| Field name | Type | Presence | Description |
|---|---|---|---|
| ***complementarySectorCreditPerYear*** | | Optional | Data block with the detail of the additional credit at sector level for a specific year. There is one block per year with a maximum of five blocks. |
| **calendarYear** | Integer >1950 & <2100 | Required | Year covered by the detailed calculation. |
| **initialComplementarySectorCreditDays**<br>(*) The fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays are filled in if the fields (block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours are not present. | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Additional annual credit at sector level based on the declared rights at sector level. It is expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |

| Field name | Type | Presence | Description |
|---|---|---|---|
| The fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays will not be present if there is a value in the fields (the block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours. | | | |
| **remainingComplementarySectorCreditDays**<br>(*) The fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays are filled in if the fields (block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours are not present.<br><br>The fields (block) initialComplementarySectorCreditDays And remainingComplementarySectorCreditDays will not be present if there is a value in the fields (the block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours. | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Remaining complementary annual credit at sector level. It is calculated based on the declared additional rights at sector level and the formations followed. It is expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **initialComplementarySectorCreditHours**<br>(*) The fields (block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours are populated as the fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays are not present.<br><br>The fields (block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours will not be present if a value is present in the fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Additional annual credit based on the declared rights at sector level. It is expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **remainingComplementarySectorCreditHours**<br>(*) The fields (block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours are populated as the fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays are not present.<br><br>The fields (block) initialComplementarySectorCreditHours and remainingComplementarySectorCreditHours will not be present if a value is present in the fields (block) initialComplementarySectorCreditDays and remainingComplementarySectorCreditDays. | Integer (int32)<br>Min:0 - Max:312000 | Required* | Remaining additional annual right at sector level. It is calculated based on the declared additional rights at sector level and the formations followed. It is expressed in hundredths of an hour. Value between 0 (= 0 hours) and 312000 (= 3120 hours). |

| Field name | Type | Presence | Description |
|---|---|---|---|
| **Note: the hours are always transferred/entered in the answer, the days not (yet).** | | | |
| **totalComplementarySectorCreditDays**<br>(*) This field is filled in if the field totalComplementarySectorCreditHours is not present.<br>This field will not be present if the field totalComplementarySectorCreditHours is present. | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Sum of the remaining additional credit at sector level (over the five-year period). Hence this number indicates the complementary sectoral credit that is available at the moment of calculation. It is expressed in hundredths of a day) with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **totalComplementarySectorCreditHours**<br>(*) This field is filled in if the field totalComplementarySectorCreditDays is not present.<br>This field will not be present if the field totalComplementarySectorCreditDays is present.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Sum of the remaining additional credit at sector level (over the five-year period).Hence this number indicates the complementary sectoral credit that is available at the moment of calculation. It is expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |

F. complementaryEmployerCredit (Optional)

| Field name | Type | Presence | Description |
|---|---|---|---|
| ***complementaryEmployerCreditPerYear*** | | Optional | Data block with the detail of the calculation of the credit of the additional right at employer level.There is one block per year with a maximum of five blocks. |
| **calendarYear** | Integer >1950 & <2100 | Required | Year covered by the detailed calculation. |
| **initialComplementaryEmployerCreditDays**<br>(*) The fields (block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays are filled in if the fields (block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours are not present.<br><br>The fields (the block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays will not be present if there is a value in the fields (the block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours. | Integer (int32) - per 0.5 day Min:0 - Max:31200 | Required* | Additional annual credit from the employer. It is based on the declared additional employer rights. It is expressed in hundredths of days with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |
| **remainingComplementaryEmployerCreditDays**<br>(*) The fields (block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays are filled in if the fields (block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours are not present.<br><br>The fields (the block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays will not be present if there is a value in the fields (the block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours. | Integer (int32) - per 0.5 day Min:0 - Max:31200 | Required* | Remaining additional annual credit from the employer.It is calculated based on the declared additional employer rights and the formations followed out of the FLA scope. It is expressed in hundredths of days with a degree of accuracy of "half a day". Value between 0 (= 0 days) and 31200 (= 312 days). |

| | | | |
|---|---|---|---|
| **initialComplementaryEmployerCredithours**<br>(*) The fields (block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours are filled in if the fields (block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays are not present.<br><br>The fields (block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours will not be present if a value is present in the fields (block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Additional annual credit from the employer. It is based on the declared additional employer rights. It is expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **remainingComplementaryEmployerCredithours**<br>(*) The fields (block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours are filled in if the fields (block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays are not present.<br><br>The fields (block) initialComplementaryEmployerCredithours and remainingComplementaryEmployerCredithours will not be present if a value is present in the fields (block) initialComplementaryEmployerCreditDays and remainingComplementaryEmployerCreditDays.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Remaining additional annual credit from the employer. It is calculated based on the declared additional employer rights and the formations followed out of the FLA scope. It is expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 312000 (= 3120 hours). |
| **totalComplementaryEmployerCreditDays**<br>(*) This field is filled in if the field totalComplementaryEmployerCredithours is not present.<br>This field will not be present if the field totalComplementaryEmployerCredithours is present. | Integer (int32) - per 0.5 day<br>Min:0 - Max:31200 | Required* | Sum of the remaining annual complementary employer credits. Hence this number indicates the complementary employer credit that is available at the moment of calculation. It is expressed in hundredths of a day with a degree of accuracy of "half a day".<br>Value between 0 (= 0 days) and 31200 (= 312 days). |

| | | | |
|---|---|---|---|
| **totalComplementaryEmployerCredithours**<br>(*) This field is filled in if the field totalComplementaryEmployerCreditDays is not present.<br>This field will not be present if the field totalComplementaryEmployerCreditDays is present.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:312000 | Required* | Sum of the remaining annual complementary employer credits. Hence this number indicates the complementary employer credit that is available at the moment of calculation. It is expressed in hundredths of an hour.<br>Value between 0 (=0 hours) and 312000 (=3120 hours). |

G. reservedTrainingtime (optional)

| Field name | Type | Presence | Description |
|---|---|---|---|
| ***reservedTrainingTimePerPeriod*** | | *Optional* | *Data block with the detail of the reserved training time per training period.* |
| **reservedTrainingTimePeriodStartDate** | Date | Required | Start date of the reserved training period |
| **reservedTrainingTimePeriodEndDate** | Date | Required | End date of the reserved training period |
| **reservedTrainingTimeDays**<br>(*) This field is filled in if the field reservedTrainingTimeHours is not present.<br>This field will not be present if the field reservedTrainingTimeHours is present. | Integer (int32) - per 0,5 day<br>Min:0 - Max:156000 | Required* | Reserved training time per training period. Expressed in hundredths of days with a degree of accuracy up to "half a day".<br>Value between 0 (= 0 days) and 156000 (= 1560 days = 5 years of 312 days). |
| **reservedTrainingTimeHours**<br>(*) This field is filled in if the field reservedTrainingTimeDays is not present.<br>This field will not be present if the field reservedTrainingTimeDays is present.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:1560000 | Required* | Reserved training time per training period. Expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 1560000 (= 15600 hours = 5 years of 312 days to 10 hours). |
| **scope** | Integer (int32) 1/9 | Required | Zone that specifies whether the reserved training time falls under the “Federal Learning Account”.<br>1 = Reserved training time is in scope.<br>2 = Reserved training time is out of scope. |
| **totalReservedTrainingTimeDays**<br>(*) This field is filled in if the field totalReservedTrainingTimeHours is not present.<br>This field will not be present if the field totalReservedTrainingTimeHours is present. | Integer (int32) - per 0,5 dag<br>Min:0 - Max:156000 | Required* | Sum of the reserved training time. Expressed in hundredths of a day with a degree of accuracy up to "half a day".<br>Value between 0 (= 0 days) and 156000 (= 1560 days = 5 years of 312 days). |
| **totalReservedTrainingTimeHours**<br>(*) This field is filled in if the field totalReservedTrainingTimeDays is not present.<br>This field will not be present if the field totalReservedTrainingTimeDays is present.<br><br>**Note: the hours are always transferred/entered in the answer, the days not (yet).** | Integer (int32)<br>Min:0 - Max:1560000 | Required* | Sum of the reserved training time. Expressed in hundredths of an hour.<br>Value between 0 (= 0 hours) and 1560000 (= 15600 hours = 5 years of 312 days of 10 hours). |

#### 3.2.5.2. GET /creditCalculation

The API call will consult and return the remaining training credit of a specific employee. There is an overall total per type as well as a detailed break-down per year. The training credit is calculated "on the fly" at the moment of the request. The response will show the various types of remaining credit for the employee concerned.

A. Path

/employers/{companyId}/employees/{inss}/creditCalculation

B. Example scenarios

- ✓ When a declaration or correction is performed.
- ✓ Showing the remaining credit in your applications.

C. Input example

**Method**: GET

**Path**: https://services.socialsecurity.be/REST/federalLearningAccount/v1
/employers/880820673/employees/81511716525/creditCalculation

**Body:** No body

D. Output example


```
{
   "employer": {
      "companyId": 880820673
   },
   "employee": {
      "inss": 81511716525
   },
   "calculationDate": "2024-03-07T12:09:16.053233",
   "legalFlaCredit": {
      "legalFlaCreditPerYear": [
         {
            "calendarYear": 2020,
            "initialLegalFlaCreditHours": 0,
            "remainingLegalFlaCreditHours": 0
         },
         {
            "calendarYear": 2021,
            "initialLegalFlaCreditHours": 0,
            "remainingLegalFlaCreditHours": 0
         },
         {
            "calendarYear": 2022,
            "initialLegalFlaCreditHours": 0,
            "remainingLegalFlaCreditHours": 0
         },
         {
            "calendarYear": 2023,
            "initialLegalFlaCreditHours": 3800,
            "remainingLegalFlaCreditHours": 3300
         },
         {
            "calendarYear": 2024,
            "initialLegalFlaCreditHours": 3800,
            "remainingLegalFlaCreditHours": 3800
         }
      ],
      "totalLegalFlaCreditHours": 7100
   },
   "complementarySectorCredit": {
      "complementarySectorCreditPerYear": [
         {
            "calendarYear": 2020,
            "initialComplementarySectorCreditHours": 0,
            "remainingComplementarySectorCreditHours": 0
         },
         {
```

```
            "calendarYear": 2021,
            "initialComplementarySectorCreditHours": 0,
            "remainingComplementarySectorCreditHours": 0
         },
         {
            "calendarYear": 2022,
            "initialComplementarySectorCreditHours": 0,
            "remainingComplementarySectorCreditHours": 0
         },
         {
            "calendarYear": 2023,
            "initialComplementarySectorCreditHours": 4000,
            "remainingComplementarySectorCreditHours": 4000
         },
         {
            "calendarYear": 2024,
            "initialComplementarySectorCreditHours": 4000,
            "remainingComplementarySectorCreditHours": 4000
         }
      ],
      "totalComplementarySectorCreditHours": 8000
   },
   "reservedTrainingTime": []
}
```


The content of the body is also available in the sample file « GetCreditCalculation_output.json ».

E. Return codes (Status Code)

If the processing is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

See chapter 3.3. for more detailed information on the return codes and anomalies.

### 3.3. Return codes specifications

In case of a successful identification and authorization, and a **GET** or **PUT** call, an https response shall be sent containing a return code, also known as status code.

If the processing in the FLA engine is realized without anomalies, the response will be a “Status Code 200” + the remaining training credit.
If the processing can be realized, but with non-blocking anomalies, the response will be a "Status Code 200” + the remaining training credit and the list of warning anomalies.
If the processing cannot be realized because of a blocking anomaly, the response will be a "Status Code 400” + list of blocking anomalies.
If a technical problem occurs, the response will be a "Status Code 500".

#### *3.3.1. Section of Anomalies*

| Field name | Type | Description |
|---|---|---|
| **Anomalyclass** | String | Level of the anomaly (in max 2 char)<br>W => Warning (non-blocking anomaly/anomalies)<br>B => Blocking – Error message (blocking anomaly/anomalies) |
| **Tagname** | String (Max:100) | Name of the field generating the anomaly: e.g.: "trainingStartDate" |
| **Path** | String (max:500) | Exact location of the anomaly in the Json |
| **Errorid** | String (max:250) | The error code |
| **Label** | String | A description specified in multiple languages |

*3.3.2.Status code 200:"Created" - with **non**-blocking anomalies (=warning anomalies).*

The complete Json file is returned; an example of **PUT** /trainingRights is shown below.
The Json consists of:

1. flaDataDeclaration
2. Anomalies
3. flaCreditCalculation


```
{
  "flaDataDeclaration": {
    "employer": {
      "companyId": 880820673,
      "flaImportanceCode": 8
    },
    "employee": {
      "inss": 81511716525,
      "language": 1,
      "refHoursInWorkingDay": 800
    },
    "calendarYear": 2023,
    "trainingRights": {
      "legalFlaRight": {
        "legalFlaRightHours": 3800,
        "workingRegulationsRegistryNbr": "181682/CO/200",
        "jointCommissionNbr": [
          "202.01"
        ]
      },
      "complementarySectorRight": [
        {
          "complementarySectorRightHours": 4000,
          "workingRegulationsRegistryNbr": "181682/CO/200",
          "jointCommissionNbr": "202.01",
          "activityCode": 228
        }
      ],
      "complementaryEmployerRight": [
        {
          "complementaryEmployerRightHours": 4000,
          "workingRegulationsRegistryNbr": "181682/CO/200",
          "jointCommissionNbr": "200"
        }
      ]
    }
  },
  "anomalies": [
    {
      "anomalyClass": "W",
      "errorId": "FLA04-272",
      "label": {
        "nl": "Opleidingsrechten - Reeds verwerkt of aangegeven",
        "fr": "Droits de formation - Déjà traité ou déclaré"
      }
    }
  ],
  "flaCreditCalculation": {
    "employer": {
      "companyId": 880820673,
      "flaImportanceCode": 8
    },
    "employee": {
      "inss": 81511716525,
      "language": 1
    },
    "calculationDate": "2024-03-07T13:42:20.466217",
    "legalFlaCredit": {
      "legalFlaCreditPerYear": [
        {
          "calendarYear": 2020,
          "initialLegalFlaCreditHours": 0,
          "remainingLegalFlaCreditHours": 0
        },
        {
          "calendarYear": 2021,
```

```
                "initialLegalFlaCreditHours": 0,
                "remainingLegalFlaCreditHours": 0
            },
            {
                "calendarYear": 2022,
                "initialLegalFlaCreditHours": 0,
                "remainingLegalFlaCreditHours": 0
            },
            {
                "calendarYear": 2023,
                "initialLegalFlaCreditHours": 3800,
                "remainingLegalFlaCreditHours": 3300
            },
            {
                "calendarYear": 2024,
                "initialLegalFlaCreditHours": 3800,
                "remainingLegalFlaCreditHours": 3800
            }
        ],
        "totalLegalFlaCreditHours": 7100
    },
    "complementarySectorCredit": {
        "complementarySectorCreditPerYear": [
            {
                "calendarYear": 2020,
                "initialComplementarySectorCreditHours": 0,
                "remainingComplementarySectorCreditHours": 0
            },
            {
                "calendarYear": 2021,
                "initialComplementarySectorCreditHours": 0,
                "remainingComplementarySectorCreditHours": 0
            },
            {
                "calendarYear": 2022,
                "initialComplementarySectorCreditHours": 0,
                "remainingComplementarySectorCreditHours": 0
            },
            {
                "calendarYear": 2023,
                "initialComplementarySectorCreditHours": 4000,
                "remainingComplementarySectorCreditHours": 4000
            },
            {
                "calendarYear": 2024,
                "initialComplementarySectorCreditHours": 4000,
                "remainingComplementarySectorCreditHours": 4000
            }
        ],
        "totalComplementarySectorCreditHours": 8000
    },
    "reservedTrainingTime": []
  }
}
```


### *3.3.3. Status code 400: "Bad Request" - with blocking anomalies.*

Example response:


```
{
  "anomalies": [
    {
      "anomalyClass": "B",
      "errorId": "00014-017",
      "label": {
        "nl": "Ondernemingsnummer - Werkgever niet aanwezig in het repertorium",
        "fr": "Numéro d'entreprise - Employeur non repris au répertoire"
      }
    }
  ],
  "type": "about:blank",
  "title": "Bad Request",
  "status": 12,
  "detail": "The input message is incorrect"
}
```

### *3.3.4. Status code 500: "Internal Server Error"*

Example response:


```
{
    "type": "about:blank",
    "title": "Unexpected Error",
    "status": 500,
    "detail": "putTrainingRights.arg3.employee.inss: must not be null"
}
```