

# Explainsafe API

Version 4.5.2 (5-2-2025)



# Table of Contents

DOCUMENT CHANGES	3
INTRODUCTION	4
URLS	4
AUTHENTICATION	4
REQUESTS	4
1. GETEXAMS	5
2. GETRESULTS	6
3. GETREGISTER	20
4. REQUESTEXAM	28
5. UPDATEEXAM	31
6. REMOVECANDIDATE	36

## Document changes

The following changes have been made to this document since the last version:

3-3-2022	Page 7 - RequestExam	This call is a new addition to this documentation. Additional information has also been added about the personal data validation and the max length constraints on this data.
3-3-2022	Page 3 – Document Changes	A ‘‘Document changes’’ section has been created to log any changes to this API documentation from now on.
11-4-2022	Page 6 to 13 – GetResults	Changed the example responses to reflect the correct attributes for this specific GetResults call (some GPI attributes were still included and had to be replaced)
13-4-2022	Page 6 – GetResults	Added some information about the customization of the response on the GetResults call and changed some example URLs to reflect the correct endpoint.
30-05-2023	Page 26 – UpdateExam	Call UpdateExam added to documentation.
15-10-2024	Page 6 – GetExams Page 7 – GetResults Page 31 – RemoveCandidate	The RemoveCandidate call was already built earlier in the year but was missed in this update table. This call makes it possible for test-enabled users to remove a candidate including all of the exams. The GetResults has been updated to also accept a module_key for refined searching and smaller collections in the response as a result. This can be combined with the mail input and the date range input. We also made it possible to return a groupname for the candidate, we can enable this manually per API-user, this is not something the customer can enable themselves, simply send us a mail to request this update on your user.
16-01-2025	Page 7 – GetResults Page 7 & 8 - GetExams	Added a possible response attribute to the GetResults response. Also changed the attribute ID to module_key in the GetExams call to make the naming convention more logical and actually correct based on the value returned. The previous ‘id’ name of the attribute did not reflect the actual definition of the value and did not correspond with the name of the value sent in the RequestExam call.
5-2-2025	GetResults/ GetExams/ RequestExam/ GetRegister	Every response now can return microlearning related results. For the GetResults call this means that every single variation of the response will now also say if it is a micro module true/false. Also micro-learning modules can contain badges, these are images and can be decoded with the base64 we return just like the PDF files for the certificate. Only when there is a badge available will we return this in the response. The same changes will be available for GetRegister. The RequestExam will only return if the requested exam was a micro-learning modules or not, the rest stays the same. And the GetExams call will now also return an extra attribute called is_micro (true/false) to indicate if the modules returned are regular or micro-learning modules.

## Introduction

This manual describes the technical information needed to exchange information from and to the explain-safe application.

All described calls include the URL parameters, data parameters and the to-be-expected success and error messages.

Information in this manual is not final. However, changes made in this manual are prevented as much as possible.

## URLs

Test URL: <https://acc-www.explainsafe.nl/>

Production URL: <https://www.explainsafe.nl/>

## Authentication

For each request you will need to provide your relation key and your user key. Explain will provide you with both keys.

Example:

```
"relation_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",  
"user_key": "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q"  
}
```

## Requests

1. GetExams
2. GetResults
3. GetRegister
4. RequestExam
5. UpdateExam
6. RemoveCandidate

*i.e.* by default, you are authorized to interact with the GetRegister API. Make sure you have additional permissions to also interact with the other three APIs.

## 1. GetExams

The GetExams request is used to obtain a list of all current exams that are available. You must use the module\_key value to request an exam.

The is\_micro property in the response indicates if the module\_key returned belongs to a micro-learning type module. Micro-learning modules are smaller, quicker then regular modules and mostly consist of one subject. Micro-learning modules can result in both a badge and a certificate, which both can be retrieved if available, this is done with the GetResults and GetRegister calls.

### URL

/api/sector/GetExams

### Method

POST

### URL parameters

None

### Data parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relation_key (provided by explain)
user_key	Y	String	Your user_key (provided by explain)

### Sample request

URL: <https://www.explainsafe.nl/api/sector/GetExams>

### Request

```
{
  "relation_key":
    "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",
  "user_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q"
}
```

### Success Response

```
{
  "exams": [
    {
      "module_key": "dk2kc2a3af",
      "is_micro": "false",
      "name": " Example module #062"
    },
    {
      "module_key": "b3f81c4d19",
      "is_micro": "false",
      "name": "Example module #567"
    }
  ]
}
```

```

},
{
  "module_key": "pku789aj19",
  "is_micro": "true",
  "name": "Example micromodule #5631"
},
{
  "module_key": "de20caf3af",
  "is_micro": "true",
  "name": "Example micromodule #8293"
}
]
}

```

### Error Response

```
{ "error": "Authentication failed" }
```

## 2. GetResults

The results as described can vary per customer due to the dynamic nature of the response in our application. This means that candidate could for example exclude 'date\_of\_birth' and at the same time include another attribute such as company\_name. Configuration of the customized GetResults response is done by eX:plain.

The GetResults request is used to obtain the results of a single exam, all results of a single candidate or all the results within a specified date range.

It is possible to further specify the date range by providing additional email addresses

The certificate will be returned as a base64 string when a single exam is requested (exam key).

Results of both regular and micro-learning exams can be retrieved through this call. By default every customer can see micro-learning modules but this can be switched off on request. Are you not seeing micro-learning results but you do expect to see them? Please contact us and we will look at it A.S.A.P.

### URL

/api/sector/get-results

### Method

GET

### URL parameters

None

## Data parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
candidate_key	N	String	Your candidatekey (provided By RequestExam)
exam_key	N	String	Your examkey (provided By RequestExam)
date_range_start	N	Date	The start date (dd-mm-yyyy) of the specified range (based on completion data)
date_range_end	N	Date	The end date (dd-mm-yyyy) of the specified range (based on completion data)
candidate_email	N	String	Optionally specify the request by providing the email address of a candidate within a specified date range.
module_key	N	String	Get the module_key by using the GetExams call first, use these module_key values to filter the search with the GetResults call, this can be done in combination with the candidate_email and date_range_start/date_range_end input scenario's.

### 1. Sample request on candidate key and exam key.

URL: <https://www.explainsafe.nl/api/sector/get-results>

#### Request

```
{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfzld8cxzjbc3",
  "candidate_key":
    "9GzH4PNSb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY",
  "exam_key":
    "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

#### Success Response

```
[
  {
    "candidate": {
      "initials": "P.",
      "firstname": "Piet",
      "lastname": "Jan",
      "birth_date": "2001-01-01",
      "email": "voorbeeld@email.com",
      "company_name": "Bedrijfsnaam"
    },
    "exam_groups": [
```

```

{
  "key": "5ffeef6ff13ecccb7ff0013e82ad24ee994694e50409b59b330bb21617cb6f7b",
  "name": "Sector specifieke micromodule",
  "graduation_date": "10-03-2024",
  "certificate_expire_date": "10-03-2025",
  "language": "Nederlands",
  "graduated": true,
  "status": "Geslaagd",
  "number_attempts": "1",
  "is_micro": "true",
  "badge": "iVBORw0KGgoAAAAGgg==",
  "certificate": "JVBERi0xLKDcgAL3EMqax4do="
}
]
}
]

```

Or (when you try to retrieve a specific microlearning result without having the permissions to do so, by default all customers have the `can_see_micro` set to true, but this can be disabled by us if this is requested).

```

[
  {
    "candidate": {
      "initials": "H.D.",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.nl",
      "company_name": "Bedrijfsnaam"
    },
    "exam_groups": [
      {
        "Message": "You are not allowed to retrieve results for a microlearning."
      }
    ]
  }
]

```

### Error Response

```
{ "error": "Authentication failed" }
```

OR



*{ "error": "Exam cannot be found" }*

## 2. Sample request on candidate key.

URL: <https://www.explainsafe.nl/api/sector/get-results>

### Request

```
{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "candidate_key":
    "9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY"
}
```

### Success Response

```
[
  {
    "candidate": {
      "initials": "V.",
      "firstname": "Voorbeeld",
      "lastname": "Kandidaat",
      "birth_date": "2001-01-01",
      "email": "voorbeeld@email.com",
      "company_name": "Bedrijfsnaam"
    },
    "exam_groups": [
      {
        "key": "5ffef6ff13eccb7ff0013e82ad24ee994694e50409b59b330bb21617cb6f7b",
        "name": "Sector specifieke micromodule",
        "graduation_date": "10-03-2024",
        "certificate_expire_date": "10-03-2025",
        "language": "Nederlands",
        "graduated": true,
        "status": "Geslaagd",
        "number_attempts": "1",
        "is_micro": "true"
      },
      {
        "key": "b8cef97bbe196be66d5e9ee08bb44023fbfa18184fab78d3ef0bade49e438e17",
        "name": "Explainsafe Acceptatie module",
        "graduation_date": "",
        "certificate_expire_date": "",
        "language": "Nederlands",
        "graduated": false,
        "status": "Uitnodiging geaccepteerd",
        "number_attempts": "0",
        "is_micro": "false"
      }
    ]
  }
]
```

```

    },
    {
      "key": "44f8b5b3b42c73887b41757f910c5ad113f564ca29d889d359c5f36348c8565e",
      "name": "Explainsafe Acceptatie module",
      "graduation_date": "29-02-2024",
      "certificate_expire_date": "28-02-2025",
      "language": "Nederlands",
      "graduated": true,
      "status": "Geslaagd",
      "number_attempts": "1",
      "is_micro": "false"
    },
    {
      "key": "e3111d83ddaace48f12fa988b3652d2b91ceaf0f8bd56cb6a832561e9355d92a",
      "name": "Sector specifieke micromodule",
      "graduation_date": "",
      "certificate_expire_date": "",
      "language": "",
      "graduated": false,
      "status": "Toets gestart",
      "number_attempts": "1",
      "is_micro": "true"
    }
  ]
}
]

```

### Error Response

*{ "error": "Authentication failed" }*

OR

*{ "error": "Exam cannot be found" }*

### 3. Sample request on exam key.

URL: <https://www.explainsafe.nl/api/sector/get-results>

#### Request

```
{
  "relation_key":
  "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "examkey": "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

#### Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "Voorbeeld examen ",
        "graduation_date": "20-01-2018",
        "certificate_expire_date": "20-01-2019",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "2",
        "is_micro": "true",
        "badge": "[base64 string (only for single exam)]",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

#### Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Exam cannot be found" }
```

#### **4. Sample request on date range and candidate email address.**

URL: <https://www.explainsafe.nl/api/sector/get-results>

##### **Request**

```
{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
    "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "date_range_start": "01-01-2021",
  "date_range_end": "01-02-2021",
  "candidate_email": "sample@email.com"
}
```

##### **Success Response**

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exam_groups": [
      {
        "key":
          "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "2",
        "is_micro": "false",
        "certificate": "[base64 string (only for single exam)]"
      }
    ]
  }
]
```

### Error Response

*{ "error": "Authentication failed" }*

*OR*

*{ "error": "Exam cannot be found" }*

## 5. Sample request on date range.

URL: <https://www.explainsafe.nl/api/sector/get-results>

### Request

```
{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
    "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",
  "date_range_start": "01-01-2021",
  "date_range_end": "01-02-2021"
}
```

Success Response (in reality this response could be way bigger when using date range only, this is just an example, use the this request in combination with email to reduce the response size)

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
          "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "2",
        "is_micro": "false",
      }
    ]
  }
]
```

## Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Exam cannot be found" }
```

## 6. Sample request on candidate email address.

URL: <https://www.explainsafe.nl/api/sector/get-results>

### Request

```
{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
    "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "candidate_email": "sample@email.com"
}
```

### Success Response

```
[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
          "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "2",
        "is_micro": "true"
      }
    ]
  }
]
```



```

    }
  ]
}
]

```

## 7. Sample request on candidate email address and module key

URL: <https://www.explainsafe.nl/api/sector/get-results>

### Request

```

{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
    "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "candidate_email":
    "sample@email.com",
  "module_key":
    "7ab3c36a5a"
}

```

### Success Response

```

[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": ""
    },
    "exams": [
      {
        "key":
          "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "Module_4 ",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "2",
        "is_micro": "true"
      }
    ]
  }
]

```

```

    }
  ]
}
/

```

### ***EXTRA:***

It is also possible to enable the candidate\_group to be returned in the response, this is something we can enable for the API user and is disabled by default.

We used to already have the possibility of expanding the response but the candidate\_group was an outlier in this case. Since 15-10-2024 it is also possible to include the candidate\_group (name).

The response will look like this example:

### **Success Response**

```

[
  {
    "candidate": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "birth_date": "01-01-2000",
      "email": "sample@email.com",
      "company_name": "company name",
      "candidate_group": "group name"
    },
    "exams": [
      {
        "key":
          "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
        "name": "Module_4 ",
        "graduation_date": "05-01-2021",
        "certificate_expire_date": "05-01-2022",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd"
        "number_attempts": "2",
        "is_micro": "true"
      }
    ]
  }
]

```

]

### **Error Response**

*{ "error": "Authentication failed" }*

*OR*

*{ "error": "Exam cannot be found" }*

### 3. GetRegister

The GetRegister request is used to search the Explainsafe register (optionally the GPI register) in order to check if a candidate has obtained certain certificates.

#### URL

/api/sector/get-register

#### Method

GET

#### URL parameters

None

#### Data Parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
certificate_key	Y	String	A certificatenummer that can be found on the certificate. (also provided by GetResults)

OR

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
lastname	Y	String	Last name of the requested candidate results
date_of_birth	Y	Date (DD-MM-YYYY)	Date of birth of the requested candidate results
module	N	String	The name of the module

or (for a Base64 return)

Parameter	Required	Type	Description
<b>relationkey</b>	Y	String	Your relationkey (provided by explain)
<b>userkey</b>	Y	String	Your userkey (provided by explain)
<b>lastname</b>	Y	String	Last name of the requested candidate results
<b>date_of_birth</b>	Y	Date (DD-MM-YYYY)	Date of birth of the requested candidate results
<b>certificate_key</b>	Y	String	A certificatenummer that can be found on the certificate. (also provided by GetResults)

### Sample request

URL: <https://www.explainsafe.nl/api/sector/get-register>

### Request

There are three ways to obtain information from the register. You can either specify a specific certificate key or you can use the last name, date of birth of the candidate in combination with the module name of the exam. If you specify all the parameters, the certificate key will dominate and you will receive the certificate number belonging to that specific key.

The third method would be to use the lastname, date\_of\_birth and certificate\_key together in order to get a base64 returned in addition to the usual response, this makes it possible to retrieve the actual .PDF for the certificate.

Recently we also made it possible to retrieve the badge image for results related to micro-learning exams.

This is also a base64 which can be decoded to an image, an exam can theoretically have a certificate and a badge, which means two separate base64 will be returned.

Also every response will clearly show whether the result is a micro-learning result or a regular exam result.

```

{
    "relation_key" : "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbji8q",
    "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfzld8cxzjbc3",
    "certificate_key": "202101000008"
}

or

{
    "relation_key": "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbji8q",
    "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfzld8cxzjbc3",
    "lastname": "Register",
    "date_of_birth": "01-01-1990"
    "module": "GPI"
}

```

### Success Response

```

"results": [
    {
        "module": "Module_1",
        "startdate": "20-01-2021",
        "valid_until": "20-01-2022",
        "language": "Nederlands",
        "code": "202101000008",
        "is_micro": "false"
    },
    {
        "module": "Module_2",
        "startdate": "20-01-2021",
        "valid_until": "20-01-2022",
        "language": "Nederlands",
        "code": "202101000009",
        "is_micro": "false"
    }
]

```

*OR (if your environment has been excluded from seeing Microlearning modules and you're specifically trying to retrieve that result)*

```
{
  "results": [
    {
      "Message": "You are not allowed to retrieve results for a microlearning."
    }
  ]
}
```

*OR ( when you retrieve a result with a badge but no certificate is available, this is usually only generic micro-learning modules and the badge property will not be included in the response when it is absent, the badge base64 is obviously longer, it is shortened for readability in this example):*

```
{
  "results": [
    {
      "module": "Generieke micromodule zonder certificaat voorbeeld",
      "startdate": "05-02-2024",
      "valid_until": "05-02-2025",
      "language": "Nederlands",
      "code": "202501000008",
      "certificate": "",
      "badge": "iVBORw0KGgoAAAANSUhEUgAABAAAAAQACAIAAADw",
      "is_micro": "true"
    }
  ]
}
```

OR (another example where we also have an exam with a route\_path included, these are exams that consist of specific instruction groups in a certain order and are about certain subjects, this route\_path array will reflect the instruction groups that were included and followed before doing the exam).

```
{
  "results": [
    {
      "module": "Voorbeeld examen met voltooide route",
      "startdate": "10-01-2025",
      "valid_until": "10-01-2026",
      "language": "Nederlands",
      "code": "202501000004",
      "is_micro": "false",
      "route_path": [
        "ExampleQuestionGroup_1",
        " ExampleQuestionGroup_95",
        " ExampleQuestionGroup_12",
        " ExampleQuestionGroup_7",
        " ExampleQuestionGroup_5",
        " ExampleQuestionGroup_2"
      ]
    },
    {
      "module": "Sector specifieke micromodule voorbeeld",
      "startdate": "10-03-2024",
      "valid_until": "10-03-2025",
      "language": "Nederlands",
      "code": "202501000006",
      "is_micro": "true",
    },
    {
      "module": "Generieke micromodule zonder certificaat voorbeeld",
      "startdate": "05-02-2024",
      "valid_until": "05-02-2025",
      "language": "Nederlands",
      "code": "202501000008",
      "is_micro": "true",
    },
    {
      "module": "Explainsafe Acceptatie module (intern)",
      "startdate": "29-02-2024",
      "valid_until": "28-02-2025",
    }
  ]
}
```



```
    "language": "Nederlands",  
    "code": "202501000010",  
    "is_micro": "false",  
  }  
]  
}
```

#### **Error Response**

```
{ "error": "Authentication failed" }
```

*A sample request with only the certificate included for when specific results are searched (for the additional Base64):*

```
{
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "lastname": "Register",
  "date_of_birth": "01-01-2000"
  "certificate_key": "201801000008"
}
```

**Success Response (Base64 is longer in reality, this is just an example)**

```
"results": [
  {
    "module": "voorbeeld examen",
    "startdate": "20-01-2018",
    "valid_until": "20-01-2019",
    "language": "Nederlands",
    "code": "201801000008",
    "is_micro": "false",
    "certificate": "JVBERi0xLjQKJeLjz9MKCjEgMCBvYmoKPDwvVHlwZSAvQ2F....."
  },
]
```

## **Error Response**

```
{ "error": "Authentication failed" }
```

## **Maximum number of GetRegister calls per day**

There exists a maximum on the amount of GetRegister calls a user can execute per day. This maximum is now set on 20000 calls per day.

Whenever you reach this limit with your API user, the **response** will be:

```
{
  "error": "Maximum number of calls reached for today"
}
```

## **Using GetRegister to retrieve information from other environments within Explainsafe**

There is a possibility built in the API to connect the API user onto other environments with which it becomes possible to retrieve exam information from candidates that are present in the company from which you authenticate with the API.

So for example, if you are a company with an API user but your candidates also need to pass their Vattenfall or TenneT modules alongside the GPI we can connect your API user to these environments to make it possible to request this data (only for your own candidates) with the same API GetRegister call.

Or we can configure the API user to be connected to GPI if you're a company using this API and interested in also being able to request the GPI public register data.

If you are interested in this integration, contact us!

#### 4. RequestExam

The RequestExam request is used to request an exam for a candidate and create the candidate simultaneously in case of a new candidate. You will retrieve an unique url (exam\_url) that can be used by the candidate to authenticate with Explainsafe and start the exam. A unique candidate key that can be used to obtain the results of the candidate. An unique exam key that can be used to obtain the result of that exam.

Recently (Q1 2025) the possibility of micro-learning modules was developed, this is reflected in the response on this call as well, where we will return is\_micro true/false to indicate if you have requested a regular or micro module for the candidate.

By default every customer may request micro-learning modules, to retrieve the modulekeys, use GetExams.

Personal data sent to the API is validated to contain no special characters except for “- . ` ” to allow for certain names that might use these characters.

We also use a max character limit constraint on the personal data:

- Initials: max 20 characters
- Firstname: max 30 characters
- Lastname: max 40 characters
- Insertion: max 15 characters

#### **URL**

/api/sector/RequestExam

#### **Method**

POST

## URL parameters

None

## Data Parameters

Parameter	Required	Type	Description
user_key	Y	String	Your userkey (provided by explain)
relation_key	Y	String	Your relationkey (provided by explain)
modulekey	Y	String	ID of the exam (provided by GetExams request)
initials	Y	String	Initials of the candidate
firstname	Y	String	First name of the candidate
lastname	Y	String	Last name of the candidate
date_of_birth	Y	Date	Date of birth of the candidate (DD-MM-YYYY)
email	Y	String	Email of the candidate
insertion	N	String	Insertions of the candidate

## Sample request

URL: <https://www.explainsafe.nl/api/sector/RequestExam>

## Request

```
{  
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",  
  "relation_key":  
"ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "modulekey": "12345abcde",  
  "initials": "H.D.",  
  "firstname": "Harry",  
  "lastname": "Wild",  
  "insertion": "van",  
  "date_of_birth": "01-01-2000",  
  "email": "sample@email.com"  
}
```

## Success Response

```
{
```

```

    "exam_url": "https://example.explainsafe.nl/modules/
9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY/start-
exam/10029bbcbc",
    "candidatekey": "71c78b7839d7db84cc8a9d2a750db6f5f592f8ac26c6df26e80fed4b1f4f0a6",
    "exam": {
        "examkey": "1f9e2a27336ba043e911b111fb5d4b61d55ff5439674f52d508c47198b196adf",
        "attempts": "0",
        "total_attempts": "1",
        "is_micro": "true"
    }
}

```

OR

```

{
    "exam_url": "https://example.explainsafe.nl/modules/
9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY/start-
exam/10029bbcbc"
    "candidatekey":
    "9GzH4PNsb6oIcl6fjo7d401CQ6m5fH9OZNMnnB0XxQDvjFf4dsUgQmN7TrazYPY",
    "exam": {
        "examkey": "
b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "attempts": "1",
        "total_attempts": "1",
        "is_micro": "false"
    },
    "message": "The used email address is already known to a user with an account. The user
must
reset his password in order to login again. The direct login url remains active until the user
resets his password"
}

```

## Error Response

```
{ "error": "Email is not valid" }
```

OR

```
{ "error": "Candidate already has this exam" }
```

```
{ "error": "Date of birth is not valid" }
```

OR

*{ "error": "Modulekey is invalid/does not exist" }*

OR

*{ "error": "Authentication failed" }*

OR

*{ "error": "You may not request a microlearning exam" }*

OR

*{ "error": "Firstname, initials, insertion or lastname has characters that are not allowed" }*

## 5. UpdateExam

This method is built for test scenario's and is only available after we've given the API user the correct permissions to use this method.

If you believe you incorrectly miss these permissions, please contact eX:plain to get this configured.

UpdateExam makes it possible to change the results of an exam to Passed (Geslaagd) or Failed (Gezakt) where we also generate a certificate and return a Base64 for the Passed status.

This makes it possible to test the GetResults call without having to ask eX:plain to change results on a newly added exam.

When Passed, we always update the certificate date one year in the future and we always use a 100% score, when failed, we always update the completed date to today with a 60% score and remove any previously filled data if this exam was passed before.

The language used is always 'Nederlands' while updating exams with this method.

### URL

/api/sector/update-exam

### Method

POST

### URL parameters

None

## Data parameters

Parameter	Required	Type	Description
relation_key	Y	String	Your relationkey (provided by explain)
user_key	Y	String	Your userkey (provided by explain)
exam_status	Y	String	Status to change the exam to. Use '1' or 'Geslaagd' for Passed. Use '0' or 'Gezakt' for failed
exam_key	Y	String	Your examkey (provided By RequestExam)

### 1. Sample request for updating to passed using the exam key

URL: <https://www.explainsafe.nl/api/sector/update-exam>

#### Request

```
{
  "relation_key":
    "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
    "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",
  "exam_status": "1",
  "exam_key":
    "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

#### Success Response

```
[
  {
    "candidate_info": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "date_of_birth": "01-01-2000",
      "email": "sample@email.com"
    },
    "exam":
      [
        {

```



```

        "exam_key":
        "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
        "name": "B&U",
        "graduation_date": "30-05-2023",
        "certificate_expire_date": "30-05-2024",
        "language": "Nederlands",
        "graduated": "true",
        "status": "Geslaagd",
        "number_attempts": "1",
        "certificate_number": "123456789",
        "certificate": "[base64 string]"
    }
}
]

```

### Error Response

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Authentication denied - no test API user permissions" }
```

OR

```
{ "error": " Exam not found because there was no valid exam_key given" }
```

OR

```
{ "error": "Denied - API user is not connected to the relation_key given" }
```

OR

```
{ "error": " Invalid exam_status given - no update could be done" }
```

## 2. Sample request for updating to failed using the exam key

URL: <https://www.explainsafe.nl/api/sector/update-exam>

### Request

```
{
  "relation_key":
    "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",
  "user_key":
    "yy0uy67cgeafol2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzffld8cxzjbc3",
  "exam_status": "0",
  "exam_key":
    "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24"
}
```

### Success Response

```
[
  {
    "candidate_info": {
      "initials": "H.D",
      "firstname": "Harry",
      "lastname": "Wild",
      "date_of_birth": "01-01-2000",
      "email": "sample@email.com "
    },
    "exam":
      [
        {
          "exam_key":
            "b79465f8c28ec52dj397047e8ad8381b6e3cf40kdcca3e5e7adffd4af5dfaa24",
          "name": "B&U",
          "graduation_date": "",

```

```

        "certificate_expire_date": "",
        "language": "Nederlands",
        "graduated": "false",
        "status": "Gezakt",
        "number_attempts": "1",
        "certificate_number": "123456789",
        "certificate": ""
    }
}
]

```

### **Error Response**

```
{ "error": "Authentication failed" }
```

OR

```
{ "error": "Authentication denied - no test API user permissions" }
```

OR

```
{ "error": "Exam not found because there was no valid exam_key given" }
```

OR

```
{ "error": "Denied - API user is not connected to the relation_key given" }
```

OR

```
{ "error": "Invalid exam_status given - no update could be done" }
```

## 6. RemoveCandidate

This method is built for test scenario's and is only available after we've given the API user the correct permissions to use this method.

If you believe you incorrectly miss these permissions, please contact eX:plain to get this configured.

RemoveCandidate makes it possible to remove exam(s) from a candidate or remove exam(s) and the candidate.

### URL

/api/sector/RemoveCandidate

### Method

POST

### URL parameters

None

Parameter	Required	Type	Description
relation_key	Y	String	Your relation_key (provided by explain)
user_key	Y	String	Your user_key (provided by explain)
candidate_key	Y	String	Your candidate_key (provided By RequestExam)

<b>full-delete</b>	Y	String	Status to change the call. Use '1' to remove exam(s) and candidate Use '0' to remove exam(s)
--------------------	---	--------	--

## Data parameters

Or

Parameter	Required	Type	Description
<b>relation_key</b>	Y	String	Your relation_key (provided by explain)
<b>user_key</b>	Y	String	Your user_key (provided by explain)
<b>email</b>	Y	String	Email of the candidate
<b>full-delete</b>	Y	String	Status to change the call. Use '1' to remove exam(s) and candidate Use '0' to remove exam(s)

### 1. Sample request for full-delete 0 with candidatekey

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

#### Request

```
{
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q ",
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzflzd8cxzjbc3",
  "candidate_key":
    "28e8dd59b9c71530818d598818589751ca23c5dceeb456eedd9b88a71ca8e943",
  "full-delete": "0"
}
```

#### Success Response

```
{
  "full-delete": "false"
},
"candidate_info": [
  {
    "firstname": " Remove",
    "lastname": " Candidate",
    "email": " sample@email.com "
  }
]
```

*1 exams succesfully removed from user sample@email.com*

**Error Response**

*{ "error": "Authentication failed" }*

*OR*

*{ "error": "Authentication denied - no test API user permissions" }*

*OR*

*{ "error": "error": "candidate not present" }*

*OR*

*{ "error": "error" "full-delete not present" }*

*OR*

*{ "error": "Denied - API user is not connected to the relation\_key given" }*

## 2. Sample request for full-delete 0 with email

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

### Request

```
{  
  "relation_key": "ttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key": "yy0uy67cgeafo1z2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfd8cxzjbc3",  
  "email": "sample@email.com",  
  "full-delete": "0"
```

```
}
```

### Success Response

```
{  
  "full-delete": "false"  
},  
"candidate_info": [  
  {  
    "firstname": "Remove",  
    "lastname": "Candidate",  
    "email": "sample@email.com"  
  }  
]
```

*1 exams succesfully removed from user sample@email.com*

#### **Error Response**

*{ "error": "Authentication failed" }*

*OR*

*{ "error": "Authentication denied - no test API user permissions" }*

*OR*

*{ "error": "error": "candidate not present" }*

*OR*

*{ "error": "error" "full-delete not present" }*

*OR*

*{ "error": "Denied - API user is not connected to the relation\_key given" }*



### 3. Sample request for full-delete 1 with candidatekey

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

#### Request

```
{  
  "relation_key": "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbjj8q",  
  "user_key": "yy0uy67cgeafol2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",  
  "candidate_key":  
    "28e8dd59b9c71530818d598818589751ca23c5dceeb456eedd9b88a71ca8e943",  
  "full-delete": "1"  
}
```

#### Success Response

```
{  
  "full-delete": "true"  
},  
"candidate_info": [  
  {  
    "firstname": "Remove",  
    "lastname": "Candidate",  
    "email": "sample@email.com"  
  }  
]
```

*User sample@email.com with 1 exams succesfully removed*

**Error Response**

*{ "error": "Authentication failed" }*

*OR*

*{ "error": "Authentication denied - no test API user permissions" }*

*OR*

*{ "error": "error": "candidate not present" }*

*OR*

*{ "error": "error" "full-delete not present" }*

*OR*

*{ "error": "Denied - API user is not connected to the relation\_key given" }*

### **3. Sample request for full-delete 1 with email**

URL: <https://www.explainsafe.nl/api/sector/RemoveCandidate>

#### **Request**

```
{  
  "relation_key": "tttewls7iedgw8x0tawhw9fikfe3hiknzwuzyu9m6a64n7qh5ig82o0ikxlbj8q",  
  "user_key": "yy0uy67cgeafol2fby2h88xb6ik5zr0vz1bxna07mt1t8i3t1wzfdld8cxzjbc3",  
  "email": "sample@email.com",  
  "full-delete": "1"  
}
```

#### **Success Response**

```
{  
  "full-delete": "true"  
},  
"candidate_info": [  
  {  
    "firstname": "Remove",  
    "lastname": "Candidate",  
    "email": "sample@email.com"  
  }  
]
```

*User sample@email.com with 1 exams succesfully removed*

**Error Response**

*{ "error": "Authentication failed" }*

*OR*

*{ "error": "Authentication denied - no test API user permissions" }*

*OR*

*{ "error": "error": "candidate not present" }*

*OR*

*{ "error": "error" "full-delete not present" }*

*OR*

*{ "error": "Denied - API user is not connected to the relation\_key given" }*