

MyFab How To : Personal process notebook

<https://lims.laas.fr/Default.aspx>

Content of the tutorial

> Goal

- How to use Myfab to have a precise monitoring of your processes

> Result

- It will be possible to have a “process notebook”, created for each process, in Myfab
- This process notebook can be exported to be used out of Myfab

The process notebook

- > It can look like this in an excel file
 - You can configure the informations you want to display

Tool name	Project Id	Project name	Start	Stop	Timespan	Supplementary info	Batch Id	Batch name	All log fields
Test tool	P-17-02038	3DCAP	2021-04-01 17:00	2021-04-01 20:00	3		9	Developpements 1	Metal: Ag focus: 15 Thickness [nm]: 25 taille: 4 Température en C°: 20
Test Tool 3	P-17-02038	3DCAP	2021-04-01 20:30	2021-04-01 23:30	3		9	Developpements 1	Number 1: 2 Number 2: 25
Test tool	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	2021-04-02 11:30	2021-04-02 15:30	4		9	Developpements 1	Metal: Au focus: 15 Thickness [nm]: 12 taille: 4 Température en C°: 250
Test tool	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	2021-04-02 16:00	2021-04-02 20:00	4	Need for a precise cleaning before the operation	9	Developpements 1	Metal: Ag focus: 15 Thickness [nm]: 125 taille: 4 Température en C°: 250

Prerequisite

- > It is needed to know the basics about Myfab
 - You can find informations on a [dedicated web page](#)
 - On which you can watch these four tutorials
 - [Video 1-Introduction to myfab basics \(2'42"\)](#)
 - [Video 2-User settings configuration \(4'27"\)](#)
 - [Video 3-How to book on Myfab \(6'32"\)](#)
 - [Video 4-How to complete the logs \(4'45"\)](#)

The way it works

1. You create a batch which will act like a “flag”
2. When booking you indicate the batch id
3. You confirm the batch id when logging
4. You can display all the informations linked to the batch number
5. This display can be exported in an excel file

1 Creation of a batch

> Menu tools / batches / add batch

Add/Edit Batch

Project:

Batch status:

Responsible user:

Batch name:

Batch no.: *Batch id will be auto-created when adding the batch.*

Master batch no.:

Start date (yyyy-mm-dd):

End date (yyyy-mm-dd):

No. of wafers:

Supplementary info:

1.1 select the project you will follow with the batch

Project:

Batch status:

Responsible user:

1.2 select the batch status

Batch status:

Responsible user:

Batch name:

1.3 Choose the batch responsible

- usually it's you
- typing the first 3 letters allows you to choose from a list

Responsible user:

Batch name:

Batch no.: *Batch id will be auto-created when adding*

1 Creation of a batch

> Menu tools / batches / add batch

Add/Edit Batch

Project:

Batch status:

Responsible user:

Batch name:

Batch no.: *Batch id will be auto-created when adding the batch*

Master batch no.:

Start date (yyyy-mm-dd):

End date (yyyy-mm-dd):

No. of wafers:

Supplementary info:

1.4 Give a comprehensible name to the batch

1.5 Myfab will automatically increment the batch id and will give it after the creation

1.6 Choose a "personnal" number for your batch. (it can hep you if you have many batches in a process)

1.7 Select the starting date of your batch (mandatory).

1.8 Options (not mandatory)

- End date of validity of the batch : the best is to keep it empty and to complete it when the process connected to the batch is completed
- Number of wafers : just for information
- Supplementary info : every others informations you think are relevant about the batch

1.9 Create the batch.

1 Creation of a batch

> Menu tools / batches / batch list

Define the available search filters fields

Batch list

Add/remove filters (1 of 10 filters chosen)

Optional filters for this list (Hide filters...)

Batch id: Batch name:

Start date from: 2020-10-02 Batch status:

Master batch id:

Apply filters

Search filter fields : to find specific batches

- mono or multiple criterium search
- Click to renew the display of the results

Display the result of your search

Add/remove columns (9 of 11 columns chosen)

	Batch Id	Batch name	Master batch id	Project Id	Project	Lab user	Start date	End date	Batch status	Supplementary info	BatchId	Batch statusId	Nr of wafers
Edit History	9	Granier 3dcap avril 2021	1	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	Hugues Granier	2021-04-01	2024-04-30	In Progress		9	2	5
Edit History	10	Test batch A	1	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	Hugues Granier	2021-04-02		Planned		10	1	
Edit History	11	Test peda	10	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	pedagogie utilisateur	2021-04-01		Planned		11	1	

Show Page: 1 (Total Records: 3) Records Per Page: 10

Define the batches parameters available in the display of the results of your search

History of the completed logs in this batch (ie the process notebook for this batch)

Edition of the batch informations to complete/change them

Excel extraction of the display

Back to add batch menu

2 bookings with a batch number

In the example we will book with this batch in this project

Add/remove columns (9 of 11 columns chosen)

	Batch Id	Batch name	Master batch id	Project Id	Project	Lab user	Start date	End date	Batch status	Supplementary info	BatchId	Batch statusId	Nr of wafers
Edit History	9	Developpements 1	1	IG TEAM Caractérisation	Developpements de nouveaux procédés en caractérisation	Hugues Granier	2021-04-01	2024-04-30	In Progress		9	2	5
Edit History	10	Test batch A	1	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	Hugues Granier	2021-04-02		Planned		10	1	
Edit History	11	Test peda	10	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	pedagogie utilisateur	2021-04-01		Planned		11	1	

Show Page: 1 (Total Records: 3)

Records Per Page: 10

Add New

Note that you can have as many batches as you want in a project.

It can be interesting when you want to try various processes in a same project; because at the end you will have one batch (= process notebook) per process

2 booking with a batch number

In the booking display add the batch id (not the master batch n°)

Create Booking

Resource: 101_____Test tool

Start time: 2021-04-02 16:00

End time: 2021-04-02 20:00

Total time: 4 hours

[Search for project](#)

Project: Développements de nouveaux proc

Resource: Book self as personal resource

Supplementary information:

Booking message:

Batch No. 9

Allows you to verify if this batch id

Edit Booking

Resource: 101_____Test tool

Start time: 2021-04-02 16:00

End time: 2021-04-02 20:00

Total time: 4 hours

[Search for project](#)

Project: Développements de nouveaux proc

Resource: Book self as personal resource

Supplementary information:

Booking message:

Batch No. 9 Developpements 1

is connected to the project (it displays the batch name)
You can book

The batch entered does not belong to the selected project

Resource: 101_____Test tool

Start time: 2021-04-02 16:00

End time: 2021-04-02 20:00

Total time: 4 hours

[Search for project](#)

Project: Développements de nouveaux proc

Resource: Book self as personal resource

Supplementary information:

Booking message:

Batch No. 1

is not connected to the project (it displays an error message)
You cannot book with this batch id

3 logging with a batch number

Log for booked tools

Test tool (101)

Booked time: **02 Apr 16:00 - 20:00**

Project: **Développements de nouveaux procédés en caractérisation** [\[Change project\]](#)

Batch No:

Log start time:

Log end time:

Problems during run
(If checked, supplying supplementary info about what went wrong is required. This info will be sent to the tool responsible. Also, any required log fields are changed to optional)

Supplementary Information:

Thickness [nm]: [\[info\]](#)

Metal: [\[info\]](#)

taille: [\[info\]](#)

focus: [\[info\]](#)

Température en C°: [\[info\]](#)

[- Change status or message for this tool \(current status: Available\)](#)
[- Add another log for this booking](#)
[- Add another log for this booking with different project](#)

The batch id indicated in the booking is automatically completed by MyFab

The supplementary information field help to note more informations than the ones indicates in the log fields bellow

Nothing else to do than in classical log fields completions

4 Display your process notebook

> Menu tools / batches / log history by batch

Define the available search filters fields

Log history by batch

Add/remove filters (4 of 24 filters chosen)

Optional filters for this list (Hide filters...)

Batch id: Batch name:

Batch owner: -- All projects where I am a member ▾

View logs from: 2018-03-01 to:

Project Id: Project name:

Batch Id: Batch name:

It is relevant to choose the fields connected to batches and projects

Column Name	Visible
User	<input type="checkbox"/>
Tool Id	<input type="checkbox"/>
Tool name	<input type="checkbox"/>
Project Id	<input checked="" type="checkbox"/>
Project name	<input checked="" type="checkbox"/>
Start	<input type="checkbox"/>
Stop	<input type="checkbox"/>
Timespan	<input type="checkbox"/>
Supplementary info	<input type="checkbox"/>
Batch Id	<input checked="" type="checkbox"/>
Batch name	<input checked="" type="checkbox"/>
Completed date	<input type="checkbox"/>
All log fields	<input type="checkbox"/>
Cost centre	<input type="checkbox"/>
Logs tart date	<input type="checkbox"/>
Log stop date	<input type="checkbox"/>
Master batch Id	<input type="checkbox"/>
Name	<input type="checkbox"/>
Project department name	<input type="checkbox"/>
Lab group of project	<input type="checkbox"/>
Project university/company name	<input type="checkbox"/>
User department name	<input type="checkbox"/>
User laboratory group	<input type="checkbox"/>
User university/company	<input type="checkbox"/>

4 Display your process notebook

> Menu tools / batches / log history by batch

Define the parameters you want to display in your process notebook

Supplementary informations that complet the log fields

Log fields give the process details

Add/remove columns (10 of 25 columns chosen)

Tool name	Project Id	Project name	Start	Stop	Timespan	Supplementary info	Batch Id	Batch name	All log fields
Test tool	P-17-02038	3DCAP	2021-04-01 17:00	2021-04-01 20:00	3		9	Developpements 1	Metal: Ag focus: 15 Thickness [nm]: 25 taille: 4 Température en C°: 20
Test Tool 3	P-17-02038	3DCAP	2021-04-01 20:30	2021-04-01 23:30	3		9	Developpements 1	Number 1: 2 Number 2: 25
Test tool	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	2021-04-02 11:30	2021-04-02 15:30	4		9	Developpements 1	Metal: Au focus: 15 Thickness [nm]: 12 taille: 4 Température en C°: 250
Test tool	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	2021-04-02 16:00	2021-04-02 20:00	4	Need for a precise cleaning before the operation	9	Developpements 1	Metal: Ag focus: 15 Thickness [nm]: 125 taille: 4 Température en C°: 250

Show Page: 1 (Total Records: 4)

Records Per Page: 10

Display of the result of your search

Excel extraction to create your process notebook out of Myfab

5-The process notebook

> Once extracted you can treat the informations in the Excel file

Tool name	Project Id	Project name	Start	Stop	Timespan	Supplementary info	Batch Id	Batch name	All log fields
Test tool	P-17-02038	3DCAP	2021-04-01 17:00	2021-04-01 20:00	3		9	Developpements 1	Metal: Ag focus: 15 Thickness [nm]: 25 taille: 4 Température en C°: 20
Test Tool 3	P-17-02038	3DCAP	2021-04-01 20:30	2021-04-01 23:30	3		9	Developpements 1	Number 1: 2 Number 2: 25
Test tool	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	2021-04-02 11:30	2021-04-02 15:30	4		9	Developpements 1	Metal: Au focus: 15 Thickness [nm]: 12 taille: 4 Température en C°: 250
Test tool	IG TEAM Caractérisation	Développements de nouveaux procédés en caractérisation	2021-04-02 16:00	2021-04-02 20:00	4	Need for a precise cleaning before the operation	9	Developpements 1	Metal: Ag focus: 15 Thickness [nm]: 125 taille: 4 Température en C°: 250