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# How to test exams for production

1. Create question pools
2. Create exam
	1. Include questions from question pools
	2. Set delivery preference to be “Paper-based” | “PearsonVue” | “Online” | “Proctoring” [TBD]
		1. “Paper-based” - Decide on the test creation methods:
			1. For pre-printed exams: manually defined exam versions
			2. For newly created exams: static test generator (generate versions in advance)
			3. Define unique names for each of your exam versions
		2. PearsonVue
			1. Create a blueprint – ad hoc generated method, specify the number of questions per question pool.
		3. Online exam / Proctoring exam
			1. Any creation method is possible – but probably will be “Ad hoc generated”
	3. Define exam code (external ID)
3. Test exam - Decide which method to use:
	1. Migrate from production to sandbox using the export test to JSON option
		1. Must know:
			1. Question pool references will be lost
			2. An end-to-end test with Lambda is possible
			3. Not supported for Ad-hoc generated blueprints (PearsonVue, Online with ad-hoc)
	2. Create an exam on sandbox and test it there
		1. Must know:
			1. Cannot be moved to production (question pool references will be lost, and the possibility of moving corrupted data is too big)
			2. An end-to-end test with Lambda is possible
			3. Have to manually re-create the same exam on production (no automated validation possibility)
	3. Create an exam on production and test it there
		1. Must know:
			1. Production usage before the go-live date and accidental changes
			2. YTM can swipe all testing data (user results, for example, from production)
			3. Cannot perform End-to-End testing with Lambda (if Lambda don’t create another environment)
			4. [Use preview test option](https://www.youtestme.com/kb/how-to-preview-a-test/) – It allows a test manager to take the dummy attempt and check the exam settings.
	4. Test on the production copy
		1. Must know:
			1. Production copy environment currently does not exists
			2. Cannot perform End-to-End testing with Lambda (if Lambda don’t create another environment)
		2. Process of DB copying:
			1. Create exam on production
			2. Notify YTM that the exam is created
			3. YTM can copy the entire DB to a new URL
			4. Certify that test is ok on the new URL
4. Test exams - minimal scenario:
	1. Paper-based
		1. Assign sample users to take the exam
		2. Create common session
		3. Export common session
		4. Find this user on a signing sheet and other CSR packages
		5. Find exam PDF – make sure the questions are in the same order on paper and application in the respective exam versions
		6. Fill in the bubble sheet
		7. Produce file from Remark
		8. Import single report file
		9. Check if the user report is populated
	2. PearsonVue
		1. [How to create an exam for PearsonVue integration](https://owncloud.youtestme.com/owncloud/s/eld8swN67Jn16Se)
		2. [How to import PearsonVue test results](https://owncloud.youtestme.com/owncloud/s/Sfgx6UCxvQZ4t6v)
		3. [How to export the PearsonVue files with simulated test results and import PearsonVue test results with exported files](https://owncloud.youtestme.com/owncloud/s/10DpPDwO3qyNW0K)
	3. Online Exam
	4. Proctored Exam
5. Test exam – end-to-end
	1. Organize exam booking in Lambda
	2. Test exam – minimal scenario
	3. Import results
		1. Online – no need for importing
		2. PearsonVue – import via SFTP
		3. Paper-Based – shared folder for picking up reports
6. Notify YTM:
	1. The exam is good – swipe up unnecessary test data from production (if tested on production), do a backup
	2. The exam is not good – ytm CSR can help with advice on how to fix it
	3. The exam is not good, and data is corrupted – revert to the previous backup state

# Important links

## Pearson VUE

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement** | **Link** | **IFSE Acceptance Criteria** | **Type** |
| **7** | [How to create an exam for PearsonVue integration](https://owncloud.youtestme.com/owncloud/s/eld8swN67Jn16Se) | **YTM system to be able to import PearsonVUE's student exam result detail (questions/answers info for analysis & psychometric reporting).** | **Video** |
| **7** | [How to import PearsonVue test results](https://owncloud.youtestme.com/owncloud/s/Sfgx6UCxvQZ4t6v) | **YTM system to be able to import PearsonVUE's student exam result detail (questions/answers info for analysis & psychometric reporting).** | **Video** |
| **7** | [How to export the PearsonVue files with simulated test results and import PearsonVue test results with exported files](https://owncloud.youtestme.com/owncloud/s/10DpPDwO3qyNW0K) | **YTM system to be able to import PearsonVUE's student exam result detail (questions/answers info for analysis & psychometric reporting).** | **Video** |

## Hold and Release Grades

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement** | **Link** | **IFSE Requirement** | **IFSE Acceptance Criteria** | **Type** |
| **N/A** | [How to hold and release grades](https://owncloud.youtestme.com/owncloud/s/60vdL2iJS1rqWYt) | **- Hold and release grades****- No Show parameter** | **N/A** | **Video** |

## Exam Enhancement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement** | **Link** | **IFSE Requirement** | **IFSE Acceptance Criteria** | **Type** |
| **11** | [How to manually create multiple test versions](https://www.youtube.com/watch?v=9YEYJ33cmVY) | **Retire Versions - do not generate out to new students. Keep in "retired" status for marking purposes and history/inquiry purposes** | **Exam to have a status field so that user can assign a status to each exam (user-defined status field, i.e., active, retired, pending).****Users can define which status can be used to assign to the exam session.** | **Video** |
| **N/A** | [Delivery preference](https://owncloud.youtestme.com/owncloud/s/zC18H55ecYO1Uyc) | **Automatic setting for booking deadline and cancelation deadline based on the delivery preference** | **For IFSE users to be able to set automatic booking and cancelation deadlines based on the delivery preference** | **Video** |

## Paper Based

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement** | **Link** | **IFSE Requirement** | **IFSE Acceptance Criteria** | **Type** |
| **9** | [Export paper-based session](https://owncloud.youtestme.com/owncloud/s/eZYPSrT4p4Dezbv) | **Report for packing/shipping from inventory** | **The CSR (Customer Service Representative) to be able to print the exam package, which includes a list of attendees, student's exam labels, & sign-off sheet, etc. sample package will be provided.** | **Video** |
| **10** | [Uniform test version distribution and no version repeating on rewrites](https://owncloud.youtestme.com/owncloud/s/1BUZrOSNHognNy9) | **Ensure no repeats of versions on rewrites** | **When a student takes a (paper) exam as a rewrite (2nd or 3rd attempt), the YTM system will assign a different version of the paper exam to the student (different version for each attempt)****For online exams, questions & multiple choice answers can be randomized.** | **Video** |