GMA200

ACCEDER CMMS – MULTI-WORKSTATION LICENCE COMPLETE VERSION

1 – How can Computerised Maintenance Management System (CMMS) software be used in training?

- Discovery of organizational and implementation constraints.
- Learning how to write diagnostic intervention reports
- Management of preventive work (organisation and implementation constraints)
- Shared document resources (electronic document management): links to equipment, parts, corrective and preventive maintenance (web links and QR codes).
- *For institutions with the required* resources: learning about spare-parts management constraints and industrial descriptions and part references. Links between equipment and storeroom locations address an economic issue poorly managed at many industrial sites.
- *For interested institutions: allocating* maintenance tasks, instructions and technical information (parts and bills of materials). Using pre-filled work orders (standard work-order templates, Standard version).
- For *BTS courses: use in* maintenance strategy to support tutorial exercises based on analysis of industrial databases.

2 – ACCEDER features for education

ACCEDER is primarily designed for **industrial use. Its** ease of use has led to adoption at around 100 industrial **sites** and over 300 training **sites.**

Benefits

Criteria	Remarks	*Applications*
Quick to learn	Light or Full Version	*Light-mode configuration available in all versions*
	Specific module for creating equipment and parts (unprotected application)	*Simple introductory practical exercises independent **of the CMMS: DIGITAL CREATION** MODULE (see below)*
Multiple workstations as standard	Indispensable for collective workshop work	*(6 posts minimum)*
Institution-wide licence	Can be used to manage the complete machine fleet and/or one or more sections	Teachers working from home
Copy of CMMS and bases	Specific tutorials or practical exercises	*Can be used on a workstation disconnected from the network*
	Work of teachers at home	*Installation and transport of the base*
	Simple backup of all files	
	Group training: each student works on their own database	*Training activities are the same for the entire group*
Can be used with an actual spare-parts storeroom	Barcode version with handheld scanner (moderate cost)	*Already tested on several sites. Requires investment in spare parts*
IT requirements	Installation by simply copying the CMMS, folders and databases	*The administrator must only install the Runtime*
Spare-parts database supplied	**2500** references on educational equipment (unprotected application)	*Fast import with the IMPORT **MODULE – EXPORT** module (see below)*

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Initial settings	Reduced to equipment and users	

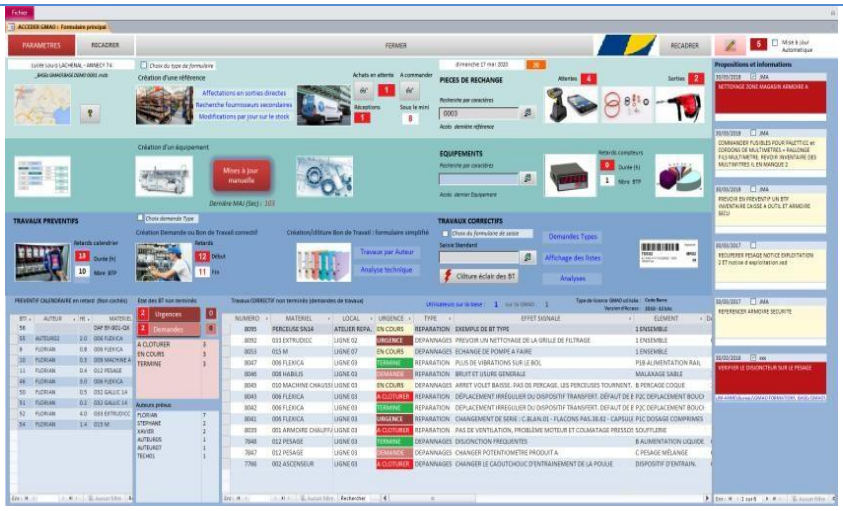
Disadvantages

No work on the Web	Students enter maintenance reports on site	
	Teachers can take the database with them	*A control function records the period for which the database is checked out (see below)*
IT requirements	Supports Microsoft 2010 to 365. Microsoft Office is not essential (Runtime can be used). Compatible with 32-bit and 64-bit systems.	*Expected to receive support for at least 10 years…* *Updates are not essential*
After-sales support depends on one person	After-sales support is no longer needed after one month of use	*Keep a copy of the files for quick reinstallation*

3 - Presentation and Comments

ACCEDER supports multi-workstation network operation as standard, using **32-bit or 64-bit Access 2010–2020** (Office with Access, or the free Access Runtime).

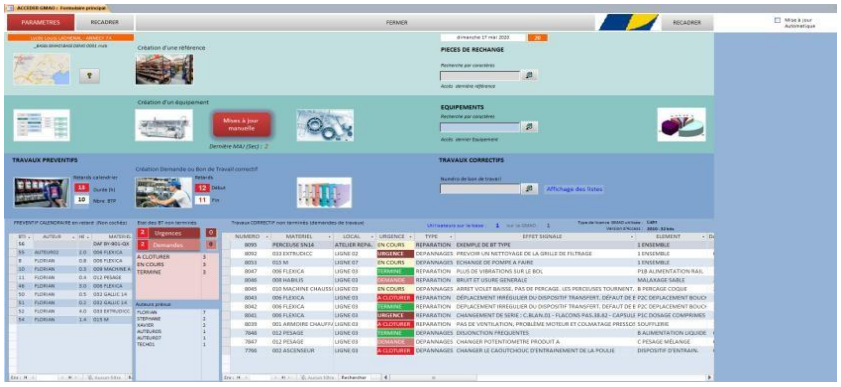
Available in three versions:
Light,
Standard and
Complete.



The Standard and Full versions can switch to Light mode to make initial training easier.

Only 9 access buttons remain on the main form.

Entry forms are simplified.



Specificities of this training application:

- Teacher training can be delivered using a virtual desktop (2 to 4 hours are sufficient).
- Easy for students to learn: one hour of initial training enables them to write a maintenance report. The interface minimises the searches needed to access information: dropdown menus are replaced by selection lists, and only one or two forms are displayed at a time, with automatic closing.

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- Minimal setup for commissioning (machine inventory and user list). Parts lists organised by machine can be imported from an Excel file.

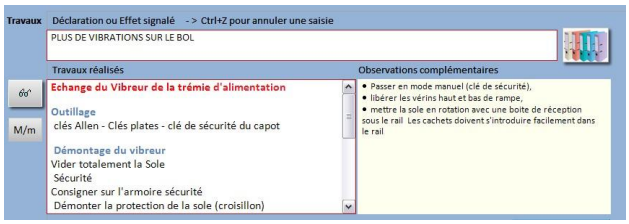
- The institution-wide licence allows a CMMS installation on each student workstation, so every student uses their own database during training. The CMMS can also be used across several departments in the same institution, and to manage the institution's maintenance work as on an industrial site.

- All entries can be checked, corrected or cancelled quickly. Each action identifies the student responsible: parts movements and work orders closed that day can be tracked. Work orders are viewed week by week. All open work orders and overdue preventive tasks appear on the main form.

- The STANDARD WORK ORDER function launches recurring activities; students can automatically create corrective maintenance work orders.

- The corrective and preventive maintenance forms include several rich-text fields (with formatting preserved when copying from Word) and external links for documentation and safety information. Work requests can be printed with the student's photograph.

Extract from the corrective maintenance work-order entry form:

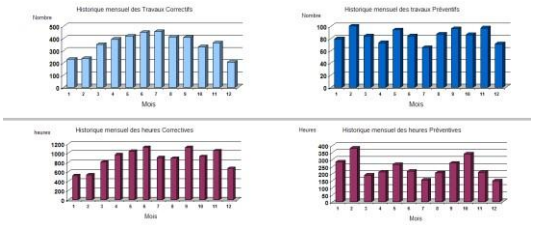


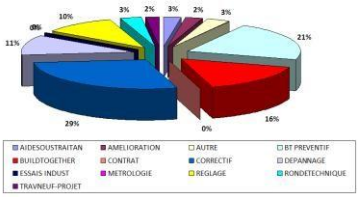


- Possible monitoring of movements of special tools (output, assignment and return)

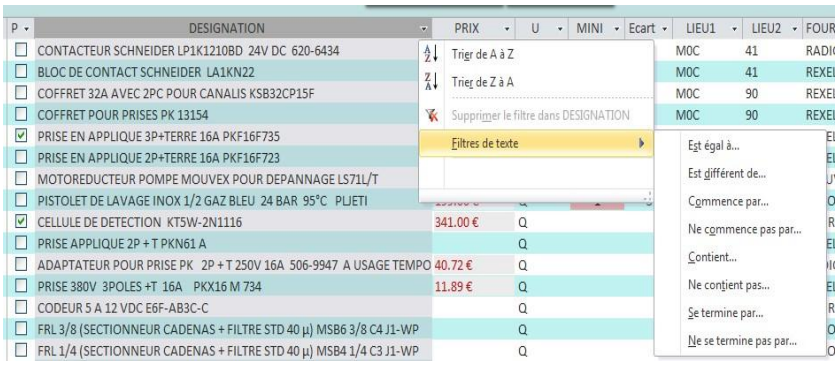


- Several industrial databases are supplied, with numerous record analysis functions.



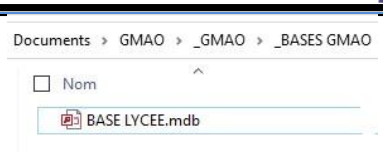
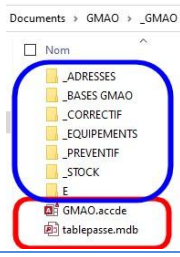
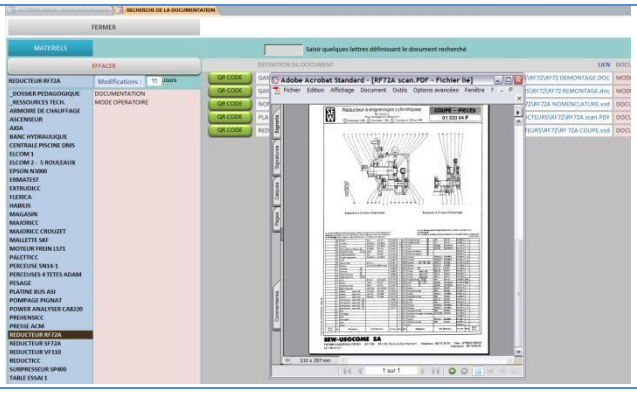
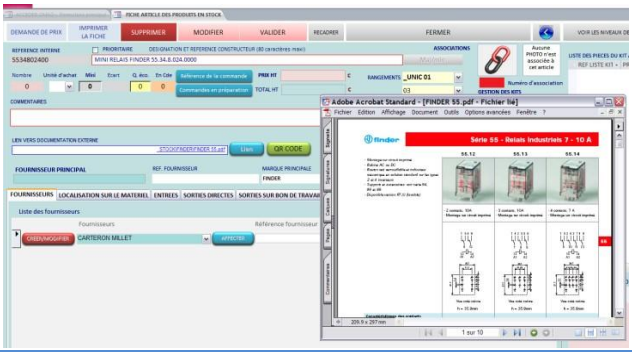


Sorting and filtering work similarly to Microsoft Office; lists can be copied and pasted into Excel.



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Portability: the database transports and duplicates itself as an Excel spreadsheet (one file only)	
Portability: Links to documentation and documentation files are stored in local (blue) folders. The two files, GMAO and tablepasse (shown in red), can be copied and replaced at any time.	
Database form for restricting CMMS access to read-only use 3 messages when the CMMS opens: responsible person's name, checkout date and time, and expected return	*Control function for recording the database checkout period* 
Comprehensive document management. Full sharing of documentation between teachers, with update dates, and collaborative document preparation. Web links and display **and/or Printing QR** codes to access a website.	
Photographs can be included in item records and documentation records. Document links on all technical forms (Corrective Maintenance, Equipment, Preventive Maintenance, Parts and Purchasing). Links can point to files or folders.	
QRcode possible on the web links of documentation (with printing of labels)	

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The Full version provides automatic barcode labelling for storeroom management, using a wireless scanner or phone to record parts movements and stocktakes.



Education-specific module: DIGITAL

CREATION (outside the CMMS)

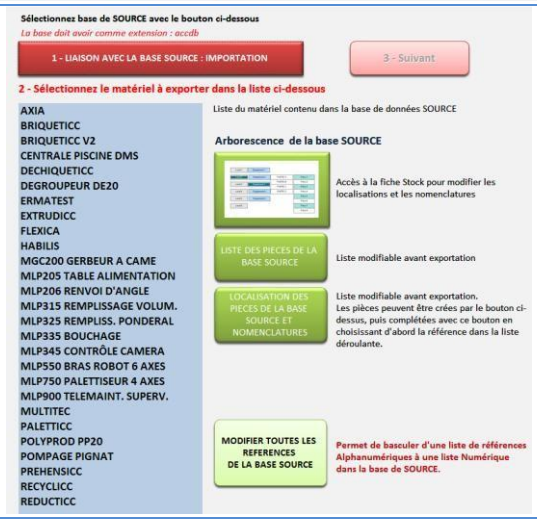
- **Create new equipment** (tree and name)
- **Import from Excel** lists of parts located on equipment
- **Amend** designations and nomenclatures
- **Report on** completed work by printing reports



Education-specific module: IMPORT–EXPORT

(outside the CMMS)

- **Exchange** equipment data (equipment hierarchy and assigned parts) **between databases**
- Possibility **of amending references,** designations and nomenclatures



Windows tablet version available (operation possible on a small touch screen). The forms are simplified.

It also manages parts movements using a barcode scanner.



4 – Recommended hardware and workshop setup:

- A network of multiple workstations running Windows XP to Windows 10. Recommended minimum screen resolution: 1920*1080.
- A workshop group including a storekeeper and a maintenance planner.
- A barcoded storeroom stocked with equipment wear parts and spares. A barcode printer is required: Brother QL 700, already configured in the CMMS.

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- A wireless barcode scanner and/or phone app can be used to record parts movements.

Suggested training organisation using the CMMS:

- All or part of the equipment documentation can be linked through hyperlinks on the network or accessed online; online documents can also be opened on a mobile device using a QR code.
- A storeroom organised with cabinets and storage boxes. Each box has a barcode label (dedicated labels and printer, or A4 Azery label sheets on a laser printer).

Examples of storage arrangements (tools can also be labelled and an illustrated catalogue generated).









- During practical exercises, a group can act as maintenance planners and storekeepers, distributing tools and wear parts.
- Each student can independently create a work order from a STANDARD work-order number. It includes all work instructions and a report entry field.
- Maintenance tasks (improvements and repairs) can use parts from the storeroom (bearings, circlips, sensors, contactors, parts kits, etc.) already assigned to standard work orders or simply located in stock. Manufacturer bills of materials and the locations shown on item records and work orders help identify and locate the required parts.

Réf. Pièces	Désignations	NB	PU	Rangement
0003	GALET UNITE DE ROULEMENT ELCOM D14 0029403	4	20.00 €	ARM ME1 02
0386	VÉRIN DOUBLE EFFET DSNU2050PPVA 14321	1	20.00 €	ARM ME1 04

- Preparatory training sessions are essential. Each student uses the CMMS locally with a personal database named after them. The database name appears on some printed reports, allowing rapid identification for marking.

5 -Other modules (proposed for testing on the demo version)

- **DIGITAL CREATION MODULE** (for education): creates a training exercise with two objectives. Module available **for unrestricted use.**
- **IMPORT–EXPORT** MODULE (for education): transfers equipment and its parts between databases, supporting sharing between centres and complementing the **Digital Creation module.**
- **CMMS ON WINDOWS** TABLET: work over Wi-Fi or independently on small screens. Most data can be entered offline, then synchronised with the central CMMS database via Wi-Fi or RJ45.

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