



EvalCOMIX®

## Getting Started Guide

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## How does EvalCOMIX® work?

EvalCOMIX® is a web-based programme that supports the creation and implementation of assessment tools (rubrics, grading scales, mixed instruments, etc.) and their use in assessment process both by tutors and students. It enables participative assessment methods such as self- or peer assessment to be implemented with relative ease. The EvalCOMIX® programme is currently available on a Moodle platform (Figure 1), through the API EvalCOMIX\_MD®.

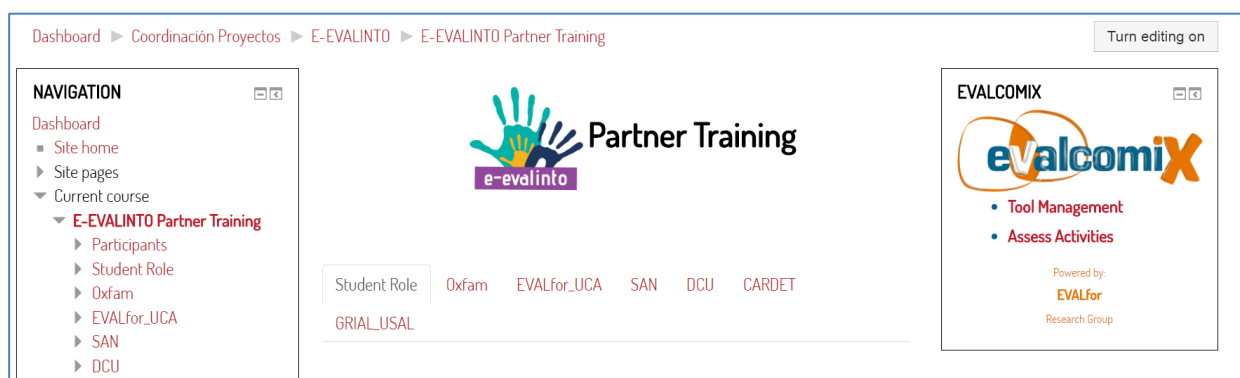


Figure 1. EvalCOMIX® interface on Moodle.

Figure 2 presents the logical architecture and flow diagram of the possibilities offered by the EvalCOMIX® web programme and illustrates how EvalCOMIX® is a tool that allows for both the design and construction of assessment instruments as well as the implementation of a range of modes of assessment. The results obtained from the assignments and actions of each student assessed by the assessment instruments as designed by the agent(s) concerned (teacher, student or peers) are saved in the Moodle grading book. This process does not require assessors to have any specific computer training only skills at Moodle user level. However, it is advisable to have an understanding and methodological knowledge of both the characteristics of the assessment instruments and the possibilities offered by different modes of assessment. To support the process EvalCOMIX® incorporates a user manual and an online demo.

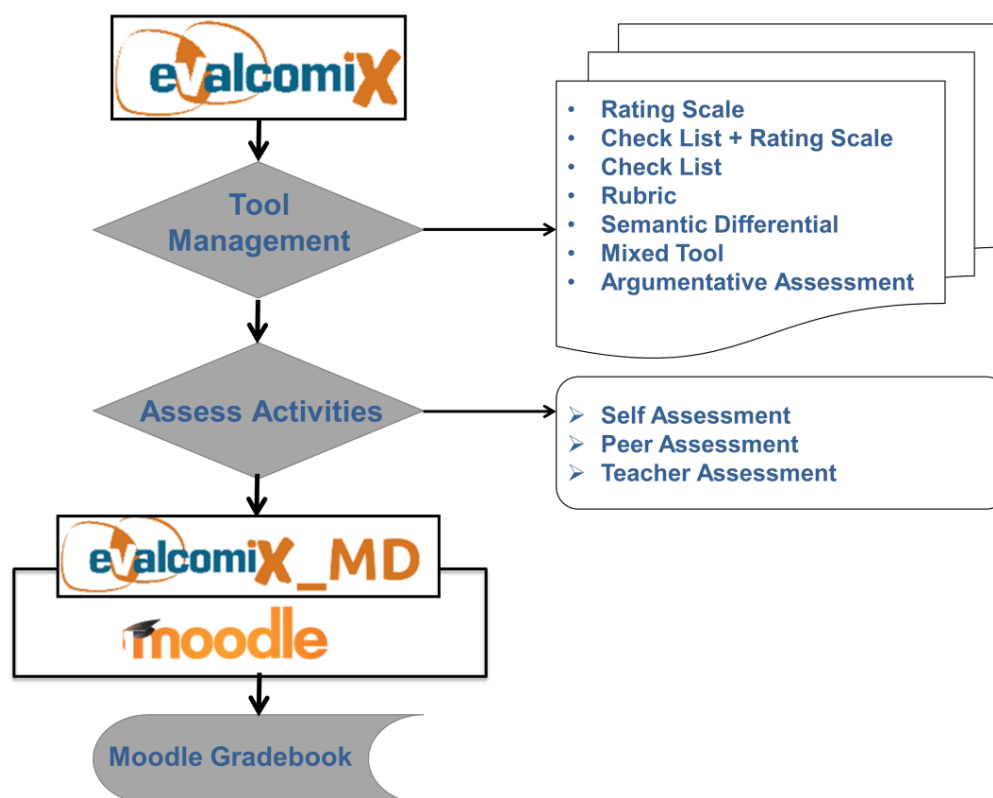


Figure 2. Logical architecture and flow diagram of the EvalCOMIX® web-based programme integrated within Moodle.

Below we explain how this programme works once it is installed on a virtual campus platform and we focus on answering the following questions:

- How can effective assessment instruments be designed?
- How should the roles of assessors be assigned to tutors and students?
- How can the weighted scores of the assessments provided by EvalCOMIX® be interpreted?
- How can activities be assessed?
- How can the results of the assessments be analysed?

## Designing assessment instruments

Decisions on issues such as the design of assessment instruments, specification of the criteria and the selection of participatory assessment methods are all covered within the programme. In this section we discuss how to design assessment tools using the EvalCOMIX® programme.

To design appropriate assessment instruments, it is first necessary to access the Tool Management section. From that screen New Instrument is selected (Figure 3). A list of the possible tools that can be built with EvalCOMIX® is then displayed.

The screenshot displays the EvalCOMIX web interface. On the left, a sidebar contains the 'evalcomiX' logo and navigation options: 'Tool Management' (highlighted with a red box and a green arrow) and 'Assess Activities'. Below these, it states 'Powered by: EVALfor Research Group'. The main content area features the 'evalcomiX' logo, an 'Assess Activities' button, and a 'Count of tools: 2' indicator. A table lists existing tools:

Title	Type	New Tool
Rubric - Assessing Mind-Map	Rubric	
Rating Scale - Assessing Oral Presentation	Scale	

Below the table, a 'Selection Window' is open, titled 'evalcomiX 4.2'. It prompts the user to 'Select tool type to create' and lists several options with radio buttons:

- Rating Scale
- Check List + Rating Scale
- Check List
- Rubric
- Semantic Differential
- Mixed Tool
- Argumentative Assessment
- Import

An 'Accept' button is located at the bottom of the selection window. Blue arrows indicate the flow from the 'Tool Management' menu to the table, and from the 'New Tool' icons in the table to the 'Selection Window'.

Figure 3. Options and assessment tools provided by EvalCOMIX®.

EvalCOMIX® guides the process of construction of each instrument by offering options about which decisions must be taken (Figure 4). Before building the tools it is preferable to plan and determine the weighting that each aspect will have within the overall assessment. By default, EvalCOMIX® assigns a pro-rata weighting, but the percentages of all of the elements assessed (dimensions and attributes) can be changed as required. Once a new instrument has been created, it is automatically added to the full list of instruments available to tutors (Figure 5).

Rúbrica: RU\_01\_GP-A\_RUBRICA PARA LA VALORACION DE INFORMES METODOLÓGICOS DE DOCUMENTOS PROFESIONALES

Nº Dimensiones: 1 Valoración Global  Nº de Valores:

Dimensión:  Nº Subdimensiones: 2 Nº de Valores: 3 Valoración Global  Valor Porcentual: 100 %

RECUERDE: NO deberían existir valores REPETIDOS

Valor: INSUFICIENTE Nº de Valores: 5

Valor: SUFICIENTE Nº de Valores: 3

Valor: ADECUADO Nº de Valores: 3

Subdimensión: ASPECTOS FORMALES Nº de Atributos: 4 Valor Porcentual: 30 %

Atributos / Valores	INSUFICIENTE	SUFICIENTE	ADECUADO
Adecuación formal	El informe presentado no reúne, al menos, seis de los aspectos formales requeridos en extensión.	El informe presentado reúne entre siete y diez de los requisitos especificados.	El informe presentado reúne todos (once) los requisitos especificados para la presentación formal:
Pertinencia del lenguaje	En el informe aparecen errores ortográficos, gramaticales o no se utiliza un lenguaje técnico apropiado.	El informe es ortográfico y gramaticalmente correcto pero el lenguaje utilizado no es el	La redacción del informe es correcta. El informe está integrado y carece de errores ortográficos y
Adecuación estructural	El informe carece de una estructura adecuada. No contempla introducción, desarrollo o	El informe está correctamente estructurado en introducción, desarrollo y conclusiones. Es	El informe está correctamente estructurado e secuencial y lógico e informa adecuadamente de
Pertinencia de la bibliografía	El informe carece de bibliografía o ésta no es suficiente. Las referencias bibliográficas no se	Las referencias bibliográficas se citan de acuerdo a la normativa APA.	Las referencias bibliográficas se ajustan a la normativa APA. Se incluyen las referencias de los

Figure 4. Interface for the construction of assessment rubrics.

evalcomix

Assess Activities

Count of tools: 2

Title	Type	New Tool
Rubric - Assessing Mind-Map	Rubric	
Rating Scale - Assessing Oral Presentation	Scale	

Figure 5. List of assessment instruments designed by Lecturer X using EvalCOMIX®.

## Assigning the roles of assessor

One advantage of EvalCOMIX® is that the role of assessor can be undertaken by both tutors and students, through self-assessment or peer assessment, using some or all of the three modes of assessment. To do this each assessor is assigned the assessment tool they will use (Figure 6). The instrument can be the same or different for each of the assessors. Peer assessment can be anonymous or public. Furthermore, this type of assessment can be carried out by groups or by individual students.

**Assessment Planning** ?

<b>Teacher Assessment - TA</b> ?	EV_TFG_Escala para la evaluación del diseño del TFG__Eval_Profesor
Weighting - TA ?	60 ▼
<b>Self Assessment - SA</b> ?	EV_TFG_Escala para la evaluación del diseño del TFG__Autoevaluacion
Weighting - SA ?	10 ▼
SA - available from: ?	18 ▼ "January" ▼ 2016 ▼ 0 ▼ 05 ▼
SA - deadline ?	21 ▼ "January" ▼ 2016 ▼ 10 ▼ 00 ▼
<b>Peer Assessment - PA</b> ?	EV_TFG_Escala para la evaluación del diseño del TFG__EvaluacionIguales
Weighting - PA ?	30 ▼
Anonymous - PA ?	<input type="checkbox"/>
PA - available from: ?	18 ▼ "January" ▼ 2016 ▼ 15 ▼ 00 ▼
PA - deadline ?	22 ▼ "January" ▼ 2016 ▼ 23 ▼ 55 ▼
Always visible ?	<input type="checkbox"/>
Who assesses ?	<input type="radio"/> Any student <input type="radio"/> Groups <input checked="" type="radio"/> Specific students <input type="button" value="Assign students"/>

Figure 6. Assigning the roles for assessment and decision making.

## Considerations on the issue of weighting

The weighting of the grades using EvalCOMIX® is achieved by two means. Firstly, for the elements of assessment in which the weighting of the instrument used in each type of assessment is specified (Figure 7) and, secondly, for the assessment tools where the weighting is provided for each component and, within them, to each of the separate elements, scored between a minimum of 0 and maximum of 100. The following figure shows an excerpt from a

rubric in which the weighting of the two elements that are assessed (format and content) are specified as well as the particular elements that are being assessed.

RU_02_GP-A_RUBRICA PARA LA VALORACION DE INFORMES METODOLOGICOS DE DOCUMENTOS PROFESIONALES												
100%		INSUFICIENTE					SUFICIENTE			ADECUADO		
30%		<b>ASPECTOS FORMALES</b>										
25%	Adecuación formal	El informe presentado no reúne, al menos, seis de los aspectos formales requeridos en extensión, formato y entrega.					El informe presentado reúne entre siete y diez de los requisitos especificados.			El informe presentado reúne todos (once) los requisitos especificados para la presentación formal: extensión, identificación, título, índice, desarrollo del informe, referencias bibliográficas, interlineado, márgenes, alineación, entrega en fecha e identificación correcta del archivo.		
		0	1	2	3	4	5	6	7	8	9	10
25%	Pertinencia del lenguaje	En el informe aparecen errores ortográficos, gramaticales o no se utiliza un lenguaje técnico apropiado al tema.					El informe es ortográfica y gramaticalmente correcto pero el lenguaje utilizado no es el apropiado, bien por ser repetitivo o por no ser técnico.			La redacción del informe es correcta. El informe está integrado y carece de errores ortográficos y gramaticales. El lenguaje utilizado es adecuado y denota conocimiento del tema.		
		0	1	2	3	4	5	6	7	8	9	10
25%	Adecuación estructural	El informe carece de una estructura adecuada. No contempla introducción, desarrollo o conclusiones. No mantiene un desarrollo secuencial adecuado o no comunica suficientemente sobre los apartados.					El informe está correctamente estructurado en introducción, desarrollo y conclusiones. Es secuencial pero no informa suficientemente de uno de esos bloques.			El informe está correctamente estructurado es secuencial y lógico e informa adecuadamente de introducción, desarrollo y conclusiones.		
		0	1	2	3	4	5	6	7	8	9	10
25%	Pertinencia de la bibliografía	El informe carece de bibliografía o ésta no es suficiente. Las referencias bibliográficas no se ajustan a la normativa APA.					Las referencias bibliográficas se citan de acuerdo a la normativa APA. Se incluyen las referencias de los informes/artículos analizados.			Las referencias bibliográficas se ajustan a la normativa APA. Se incluyen las referencias de los informes/artículos analizados. Se incluye, al menos, una referencia bibliográfica utilizada por el equipo representativa del tema y que no es de informes/artículos.		
		0	1	2	3	4	5	6	7	8	9	10
70%		<b>ASPECTOS DE CONTENIDO</b>										
25%	Corrección y justificación de las identificaciones	En el informe no se identifican y justifican, al menos, tres aspectos.					El informe identifica todos los apartados del desarrollo y justifica coherentemente un mínimo de cuatro.			El informe identifica y justifica coherentemente los seis apartados del desarrollo: objetivos, responsabilidad, destinatarios, tipo de información, metodología utilizada, proceso de recogida y análisis de datos y resultados.		
		0	1	2	3	4	5	6	7	8	9	10

Figure 7. Examples of weighting for each component and element in a rubric created using EvalCOMIX®.

## Assessing Learning Outputs and Activities

In this section we present how to assess learning outputs and activities using the EvalCOMIX® programme.

To assess a learning output it is first necessary to access the Assess Activities section (Figure 8). From that screen a list of students with all activities is showed (Figure 9).



Figure 8. Assess Activities.

Surname	First name	Mind-Map	Oral Presentation
Student01	Evalinto CARDET	- [orange icon]	- [orange icon]
Student02	Evalinto CARDET	- [orange icon]	- [orange icon]
Student03	Evalinto CARDET	- [orange icon]	- [orange icon]
Student04	Evalinto CARDET	- [orange icon]	- [orange icon]
Student01	Evalinto DCU	- [orange icon]	- [orange icon]
Student02	Evalinto DCU	- [orange icon]	- [orange icon]
Student03	Evalinto DCU	- [orange icon]	- [orange icon]
Student04	Evalinto DCU	- [orange icon]	- [orange icon]

Figure 9. Activities that should be assessed.

At this moment you should click on the orange icon and then it appears the assessment tool. After saving the grading it will change to green and you could view the complete grading at the icon lens (Figure 10).

Surname	First name	Mind-Map	Oral Presentation
Student01	Evalinto CARDET	50.00 [orange icon] [green icon]	[orange icon]
Student02	Evalinto CARDET	- [orange icon]	[orange icon]
Student03	Evalinto CARDET	- [orange icon]	[orange icon]

Figure 10. Activities assessed.

## Analysis of results

Once the assessment process is complete (creation of instruments and assessment jointly by the tutors and students) EvalCOMIX® (Figure 11) enables both tutors and students to see all the assessments that have been completed and who has completed each of the different assessment tasks.



Modality	Grade	Weighing on final grade
Teacher Assessment - TA	80/100	60%
Self Assessment - SA	93 / 100	10%
Peer Assessment - PA	75/100 99/100	30%

EvalCOMIX grade: 83.40 / 100

Figure 11. Marks shown by assessment mode and their weighing.

Tutors can also get an overview of the gradings in simple diagrams, where the highest, lowest and median scores are shown. Assessment results can be analysed by student group, class and assessment mode used (Figure 12).

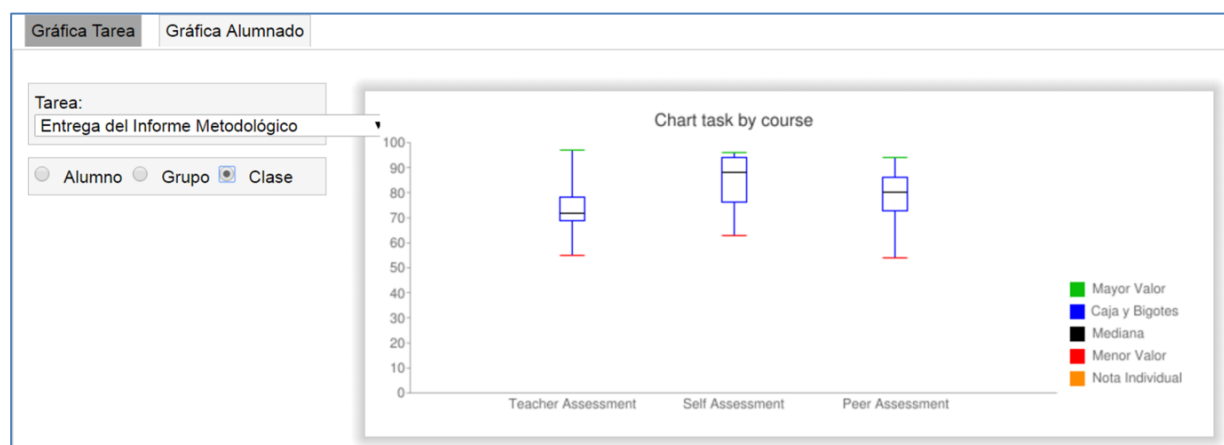


Figure 12. Grades achieved by assessment method and weighting and representation using box and whisker plots of scores on self-assessment and peer assessment of a class.

Cadiz, April 2017