Administrator Guide for MEASURE
Faculty of Engineering, McMaster University
January 9, 2020

BY
Evan Situ, Michelle Zheng, Spencer Smith, Andrew Aran

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## Modification Log

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<th>Modification Date</th>
<th>Author</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>January 9, 2020</td>
<td>Andrew Aran</td>
<td>Initial Draft</td>
</tr>
</tbody>
</table>

Click [here](#) to view previous modification log.
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Introduction

The Administrator Guide is part of MEASURE (McMaster Engineering Accreditation System for Undergraduate).

MEASURE’s purpose is to:
- Facilitate the continual improvement of the curriculum of the programs offered by the Faculty of Engineering
- Assist with generating accreditation reports for the Canadian Engineering Accreditation Board (CEAB)

MEASURE is built using corporate performance management software, (Vena) that combines Excel spreadsheets, a central database, and workflow management.

This document outlines the MEASURE tasks that take place at the faculty level. Specifically, the Office of the Dean will update the following:
- Adding Users
- Updating passwords
- Archiving data
- Creating new academic year
- Creating/Updating reports (where applicable)
- Providing technical support

Additional information on MEASURE can be found in the Instructor’s Guide and Department Guide. The latest version of all these documents, along with other resources, are available at http://measure.mcmaster.ca

Issue Reporting: https://www.eng.mcmaster.ca/forms/measure-issue-tracking
Technical Support: measure@mcmaster.ca
Prerequisites
Administrator functionality is currently compatible for Vena users with Windows operating system. Enhancements will be implemented by Vena in the future to enable macOS compatibility.

Vena Administrative Rights
Vena Administrative rights will be required for…
- User management
- Creating and running ETL (Extract, Transform, and Load) processes
- Archiving accreditation data
- Creating new academic years
- Creating and updating Vena templates and reports

To request access, contact measure@mcmaster.ca.

Windows
System Requirements

<table>
<thead>
<tr>
<th></th>
<th>Recommended</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Latest version of Windows 10 (64-bit)</td>
<td>Windows 7 (32-bit)</td>
</tr>
<tr>
<td>MS Office</td>
<td>Office 2016 or newer</td>
<td>Office 2010</td>
</tr>
<tr>
<td></td>
<td>- Click <a href="http://addin.vena.io/release/vena.application">here</a> for instructions to download Office (via UTS)</td>
<td></td>
</tr>
<tr>
<td>.NET</td>
<td>Latest version of .NET</td>
<td>4.5</td>
</tr>
<tr>
<td>Browser</td>
<td>Latest version of:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Internet Explorer</td>
<td>- Internet Explorer 10+</td>
</tr>
<tr>
<td></td>
<td>- Microsoft Edge</td>
<td>- Microsoft Edge</td>
</tr>
<tr>
<td></td>
<td>- Mozilla Firefox</td>
<td>- Mozilla Firefox 12.0+</td>
</tr>
<tr>
<td></td>
<td>- Google Chrome</td>
<td>- Google Chrome</td>
</tr>
<tr>
<td>RAM</td>
<td>16 GB</td>
<td>4 GB</td>
</tr>
<tr>
<td>CPU</td>
<td>2+ Cores</td>
<td>--</td>
</tr>
<tr>
<td>Reference:</td>
<td><a href="https://support.venasolutions.com/hc/en-us/articles/11500622006-Vena-Add-In-System-Requirements">https://support.venasolutions.com/hc/en-us/articles/11500622006-Vena-Add-In-System-Requirements</a></td>
<td></td>
</tr>
</tbody>
</table>

About the Vena Add-In
Vena uses both Microsoft Excel and the Vena website ([https://vena.io](https://vena.io)) to give users access to the various templates and accreditation reports. Before users can update their course data in Excel, they will need to install the Vena Add-In for Microsoft Excel. This Add-In provides functionality to Excel that allows users to view, edit, and save their rubric data to the Vena cloud.

Installing Vena Add-In for Windows Users
2. Save the `vena.application` file

3. Double-click the `vena.application` file

4. Run the installer. The following dialog box will appear:

5. When the application has loaded, press **Install**

6. When the installation has completed, the following dialog box will appear. Close this dialog box to complete the installation.

7. To ensure Vena has successfully installed, open Microsoft Excel, and confirm the Vena tab has been added.

---

**Enabling Trust Access to the VBA Project Object Model**

After installing the Excel Vena Add-in, access to the VBA project object model will need to be trusted for Vena to run properly.
1. Open Excel

2. Select a Blank Workbook

3. Select File

4. On the bottom of the left menu, select Options

5. Select Trust Center
   a. Select Trust Center Settings

6. Select Marco Settings

7. Ensure that Disable all macros with notification is selected

8. Check the box next to Trust access to the VBA project object model
9. Close all instances of Excel for the settings to take effect.

Other Operating Systems
Administrator functionality is currently compatible for Windows users with Microsoft Office. Users who do not have a compatible operating system and/or Microsoft Office will need to access Vena using a virtual machine.

Instructions to Access a Virtual Machine:
https://www.eng.mcmaster.ca/sites/default/files/vminstruct.pdf

Questions/Comments/Technical Support:
measure@mcmaster.ca
**Annual Timeline**

The table below summarizes the typical tasks performed during the course of an academic year. The Administrator’s responsibilities are highlighted in **green**.

The timeline table shows an entry for adding courses, but no time slot for deleting courses that are no longer offered. This is because courses are not deleted, since deleting them will remove all of the historical data associated with the course. Courses can be removed from a specific program, but should not be removed from the Vena database. Courses that are no longer offered should be moved to the unmapped folder, as described in the Departmental Guide.

<table>
<thead>
<tr>
<th>Date</th>
<th>Task Description</th>
<th>Section</th>
<th>Template</th>
<th>Task Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>• Instructor enters rubric and continuous improvement plan for Term 1</td>
<td>Instructor Guide</td>
<td>Rubric Input Template</td>
<td>Instructor</td>
</tr>
<tr>
<td>January</td>
<td>• Instructor reviews the continuous improvement plan from the previous year for Term 1</td>
<td>Instructor Guide</td>
<td>Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)</td>
<td>Instructor</td>
</tr>
<tr>
<td>January</td>
<td>• Review current rubric entry status</td>
<td>Department Guide</td>
<td>Rubric Entry Report</td>
<td>Department</td>
</tr>
<tr>
<td></td>
<td>• Contact instructors who have yet to complete their Vena rubric entry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April</td>
<td>• Update global variable and point to Term 2 (after Term 1 data entry is complete)</td>
<td>Click here</td>
<td>Input Variables Template</td>
<td>Associate Dean’s Office</td>
</tr>
<tr>
<td>May</td>
<td>• Instructor enters rubric and continuous improvement plan for Term 2</td>
<td>Instructor Guide</td>
<td>Rubric Input Template</td>
<td>Instructor</td>
</tr>
<tr>
<td>May</td>
<td>• Instructor reviews continuous improvement plan from the previous year for Term 2</td>
<td>Instructor Guide</td>
<td>Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)</td>
<td>Instructor</td>
</tr>
<tr>
<td>May</td>
<td>• Review current rubric entry status</td>
<td>Department Guide</td>
<td>Rubric Entry Report</td>
<td>Department</td>
</tr>
<tr>
<td></td>
<td>• Contact instructors who have yet to complete their Vena rubric entry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td>• Curriculum committees review (this year) course reports and continuous improvement plan reports</td>
<td>Department Guide</td>
<td>Course Report and Rubric Input Template (Instructor Guide)</td>
<td>Department</td>
</tr>
<tr>
<td>August</td>
<td>• Archive previous year</td>
<td>Click here</td>
<td>Archive Data (ETL)</td>
<td>Associate Dean’s Office</td>
</tr>
<tr>
<td></td>
<td>• Start New Academic Year</td>
<td>Click here</td>
<td>New Academic Year (ETL)</td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>• Update global variable and point to Term 1 (after Term 2 data entry is complete)</td>
<td>Click here</td>
<td>Input Variables Template</td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>• Update Measurement Mapping</td>
<td>Department Guide</td>
<td>Measured Indicators Input Template</td>
<td>Department</td>
</tr>
<tr>
<td>August</td>
<td>• Update Curriculum Mapping</td>
<td>Department Guide</td>
<td>Curriculum Mapping Input Template</td>
<td>Department</td>
</tr>
<tr>
<td></td>
<td>o Consult with Instructors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>• Update Curriculum Recommendations</td>
<td>Department Guide</td>
<td>Curriculum Committee Recommendations Input Template</td>
<td>Department</td>
</tr>
</tbody>
</table>
## August
- Review Programs in Vena
- Notify Associate Dean’s Office if changes are needed

## August
- Add/Update/Un-map courses in the Vena Database
- **Do not delete Courses**

## September
- Faculty reviews departmental continuous improvement plan report from previous year
- Prepare/review Graduate Attribute Report

## December
- Execute Backup and Restore Process

### Ad hoc Tasks
Below is a list of ad hoc tasks the Vena Administrator would execute throughout the year.

<table>
<thead>
<tr>
<th>Task Name</th>
<th>Task Description</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manage Vena Users</td>
<td>• Add, remove, update users</td>
<td>Click Here</td>
</tr>
<tr>
<td></td>
<td>• Assigning users to a process</td>
<td>Click Here</td>
</tr>
<tr>
<td>Versioning</td>
<td>• A versatile feature that allows you to copy data from one portion of your database and write it to another portion</td>
<td>Click Here</td>
</tr>
<tr>
<td></td>
<td>• Helps to consolidate rubric data into a single (Reference)</td>
<td></td>
</tr>
<tr>
<td>Cascade</td>
<td>• This feature enables users to generate the same Vena report for multiple courses/programs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>○ I.e. Generate multiple Course Reports</td>
<td>Click Here</td>
</tr>
<tr>
<td>Force Check-Ins</td>
<td>• A template that has been checked out by a user who is unavailable and it needs to be checked back in</td>
<td>Click Here</td>
</tr>
<tr>
<td>Unsubmit</td>
<td>• This feature helps unsubmit a task if it has inadvertently been submitted</td>
<td>Click Here</td>
</tr>
<tr>
<td>Update Course List</td>
<td>• The Course List worksheet is updated when a course has been added, removed, or changed</td>
<td>Click Here</td>
</tr>
<tr>
<td>Reports</td>
<td>• Generate reports from the rubric data</td>
<td>Click Here</td>
</tr>
<tr>
<td></td>
<td>• Vena Administrators will also be able to create Excel-based charts to meet user needs (Refer to Vena Documentation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>○ For support, contact Vena Support</td>
<td></td>
</tr>
</tbody>
</table>
Accessing Vena
1. Open a web browser
2. Visit https://vena.io
3. In the email textbox, enter your McMaster email address (i.e. macid@mcmaster.ca)
4. Your password has been previously communicated. If you do not remember, or do not have an account, please contact Measure Support (measure@mcmaster.ca)

Changing Vena Password
Your password can be changed by clicking the user’s name in the upper right corner of the screen and then selecting “Password” on the menu. You will be prompted to enter the current and new password. The password must meet all password rules before it can be changed.

New Academic Year Process
At the end of every academic year, it is required to archive the rubric data for the year, create a new academic year, and evaluate the data to ensure data integrity is maintained.

The processes below will guide the Vena Administrator with supporting the academic cycle. For task tracking purposes, create a new project in GitHub: https://github.com/smiths/MEASURE.
Vena Academic Cycle

Archiving Vena Data

After rubric data has been entered for the year, the Vena Administrator will execute the Vena archiving process.

Historical Program Measurement Archive

Only archive the program measurement when the program is fully completed. The purpose of archiving the program measurement data is to track the historical trend of a program.

The purpose of archiving the data is so that the historical program measurement report can be generated.

1. Ensure all Vena templates have been checked in.
   a. Login to [https://vena.io](https://vena.io)
   b. Contributor → Inputs → “See More To Do Inputs”
   c. Confirm every template has checked in
      i. If a template is checked out, the user’s name will be listed below the template as “Checked Out”

2. If a template is checked out and the user who checked out the template is unavailable, a Force Check-In is required.
3. Submit the task.
   Only the task owner has the ability to submit the task.
   a. Contributor ➔ Inputs ➔ Rubric Input & Course Report (by Instructor) – New
   b. Click Submit

4. Update the Academic Year Template
   a. Open the input template “AcademicYearTemplate.csv”
   b. Enter the new academic year data in cell “A1” (format yyyy-yyyy)
      ii. Save

5. Run the Historical Program Measurement Archive ETL Job
   a. Modeler ➔ Data Modeler ➔ ETL ➔ Templates ➔ Run
   b. Click Choose File and select the AcademicYearTemplate.csv file from Step 4.
   c. Click Import

6. Reviewing ETL Job Status
The Historical Program Measurement Archive ETL Job will take approximately 5-10 minutes to complete.
   a. To review the ETL Job status, Modeler → History → View Details for Historical Program Measurement Archive

   ![View Details button](image)

b. While running, the status will display RUNNING. When complete, the status will change to Completed.

   ![Completed status](image)

c. Click the Refresh button for an updated ETL status.

7. Historical Program Measurement Report
   Once the archive is complete, the historical program data will be available in the Historical Program Measurement Report.

   The historical program measurement report will not generate for any year’s data that has not yet been archived.

Starting a New Academic Year
   Be sure to complete the Historical Program Measurement Archive Process before starting a new academic year.

   The current year’s curriculum mapping and rubric information will be used as the starting point for a new academic year. An automated ETL Job built by Vena will be executed to create the new academic year.
1. Update the Academic Year Template
   a. Open the input template “AcademicYearTemplate.csv”
   b. Enter the new academic year data in cell “A1” (format yyyy-yyyy)
      ii. Save

2. Run the New Academic Year ETL Job
   a. Modeler → Data Modeler → ETL → Templates → Run
   b. Click Choose File and select the AcademicYearTemplate.csv file from Step 4.
   c. Click Import

3. Reviewing ETL Job Status
   The New Academic Year ETL Job will take approximately 5-10 minutes to complete.
   a. To review the ETL Job status, Modeler → History → View Details for New Academic Year
   b. While running, the status will display RUNNING. When complete, the status will change to Completed.
4. After the ETL Job is complete, the newly created academic year will appear under the Year Dimension
   a. Modeler → Year

Updating Global Variable

Below are the steps to successfully update a Global Variable. Updating the term global variable will prevent entering the incorrect term/year in the input templates.

1. Download the Input Variables Template
   a. Manager → Home → Accreditation 2.0 → Files Library → Input Forms → Data Controls → Input Variables Template.xlsx

2. Open the Input Variables Template
   a. Click Enable Editing if the pop-up appears

3. Change to Template Edit Mode
   a. If in Edit Data mode, switch to Template Edit mode by clicking Edit Template
i. The button should toggle to display “Edit Data”

4. Update the Process Variable
   a. Select the cell with the value of the Global Variable
   b. Click Add/Edit Variable → Process Variables → Add/Edit (must be in Edit Template mode)
   c. Update the respective variable with the new member
      i. Only a single member can be in a global variable
d. Close the variable window and Save Template.

Review Archived Data
After archiving the data, creating a new year, and pointing to a new term, it is recommended to generate and review the previous years’ reports and test the input templates before announcing the new academic year is available.

Generate and review the previous years’ reports to ensure rubric data is consistent:

- Historical Course Measurement Report.xlsm
- Historical Program Measurement Report.xlsm
- CEAB Attribute Report

Test Plan Reference: [https://github.com/smiths/MEASURE/issues/251](https://github.com/smiths/MEASURE/issues/251)

<table>
<thead>
<tr>
<th></th>
<th>Test Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Committee Recommendations Input Template.xlsm</td>
<td>✓ Data entry/save is working as expected&lt;br/&gt;✓ Previous year data and attachments are available</td>
</tr>
<tr>
<td>Curriculum Mapping Input Template.xlsm</td>
<td>✓ Previous year mapping carried over to new year&lt;br/&gt;✓ New year mapping can be updated</td>
</tr>
<tr>
<td>Faculty Recommendations Input Template.xlsm</td>
<td>✓ Data entry/save is working as expected&lt;br/&gt;✓ Previous year data and attachments are available</td>
</tr>
<tr>
<td>Measured Indicators Input Template.xlsm</td>
<td>✓ Previous year mapping carried over to new year&lt;br/&gt;✓ New year mapping can be updated</td>
</tr>
<tr>
<td>Rubric Input Template.xlsm (Win &amp; macOS)</td>
<td>✓ Data entry/save is working as expected&lt;br/&gt;✓ Learning outcomes carry over in correct sequence&lt;br/&gt;✓ Comments/Assumptions do not populate&lt;br/&gt;✓ Summary and Detailed View Reports are working as expected</td>
</tr>
<tr>
<td>Course Report.xlsm</td>
<td>✓ Summary/Detailed Chart button is working as expected</td>
</tr>
</tbody>
</table>

Test Plan Reference: [https://github.com/smiths/MEASURE/issues/250](https://github.com/smiths/MEASURE/issues/250)
Announcements
After successfully testing the Vena reports and templates, send an email announcing data entry is available for the current term. This is also a good opportunity to provide any key updates such as new reports, bug fixes, due dates, etc.

Faculty Recommendations Template
Faculty can share their recommendations by using the Faculty Recommendations Template. Once the recommendations are saved, they can be seen as a read-only report by generating the Faculty and Curriculum Committee Recommendations Report.

1. Login to https://vena.io

2. Contributor ➔ Faculty Recommendations ➔ Check Out Faculty Recommendations Input Template.xlsm

3. Select the Year and click OK

4. Recommendations can be entered as text in the Faculty Recommendations Vena Template or captured in a Word or PDF report. Therefore, there is an option to attach a file to the recommendations.

   a. To attach a file to your recommendations,
      i. Click the Vena Tab
      ii. Click the empty section below the “Faculty Recommendations for 20XX-20XX”
      iii. Click Comments
      iv. In the Comments section, click Details Tab
      v. Click the Add Comment button

      vi. Click the Attach File and attach your file
      vii. Click Upload when asked to upload the file as a comment

When attaching a file as a comment, please write text in the associated field to let future readers know that additional information is available as a comment. Something similar to the following would be fine: “For additional information, please see report attached to this cell”.

Brighter World
5. Click **Save Data** under **Vena** Tab and **Check in** the file

**Backup and Restore Process**

The purpose of executing the backup and restore process is to ensure data integrity is maintained and data is recoverable in the event of an actual disaster.

1. The Administrator and Vena coordinate a date/time to create and test the DR (disaster recovery) environment.

2. Prior to creating the DR environment, the Administrator will record information from the production environment. This information will be used to compare with the DR environment.

   1. Insert data – A copy of a template from the latest users to insert data
   2. Update data – A copy of a template from the latest users to update data
   3. Delete data – A copy of a template from the latest users to delete data
   4. Users – A screenshot containing the current number of Vena users
   5. ETL Jobs – A screenshot containing the ETL jobs and the last time they were executed

Click [here](#) for reference and a sample test plan.

3. Vena notifies the Administrator the status of the DR environment.

4. If the DR environment is available, the Administrator will compare the data from step 2 with the DR environment.
5. If data from the DR environment is consistent with the production environment, the Backup and Restore Process was successful. Otherwise, review and notify Vena.

6. After testing, Vena destroys the DR environment and notifies the Administrator.

**Disaster Recovery Flow Chart**

**Ad hoc Tasks**

**User Management**

The Vena Administrator has the ability to add, update, and remove users.

Here are the roles usually assigned to users. Users can be given elevated roles such as Modeler, but will need to be reviewed and approved by the Dean’s Offices.
<table>
<thead>
<tr>
<th>User Type</th>
<th>Vena Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty/Staff</td>
<td>Contributor</td>
<td>Enter and submit rubric information</td>
</tr>
<tr>
<td>Department Representatives</td>
<td>Modeler</td>
<td>Update programs and courses</td>
</tr>
<tr>
<td>Dean’s Office</td>
<td>Super Users, Admins, Managers</td>
<td>Maintain MEASURE</td>
</tr>
</tbody>
</table>

Adding a User
1. Login to [https://vena.io](https://vena.io)

2. Admin → Users → Add User

3. Fill in the user information and select the Login Type
   a. Default Login Type is **Contributor**
   b. Users can also be assigned as an Admin, Manager, Modeler, or Reports

4. Click **Save**

Vena User Group
After a user has been created, they will need to be added to a Vena User Group.

1. Login to [https://vena.io](https://vena.io)

2. Admin → Permissions → User Group

3. Select a user group
   a. Default User Group is **Contributor** (unless stated otherwise)
   b. Users can also be assigned as an Admin, Manager, Modeler, or Reports

Updating User Information
Vena Administrator’s have the ability to update existing user information such as their name, email, user role, user group and status.

1. Login to [https://vena.io](https://vena.io)

2. Admin → Users

3. Search the user by name or email address

4. Once the user is found, click the value that requires updating
   a. Example: If the first name needs to be changed, click the value containing their first name

5. Update the value and press **Enter**
Removing a User

1. Login to https://vena.io
2. Admin → Users
3. Search the user by name or email address
4. Right-click the user and select Remove User
5. Confirm when prompted

Assigning User to a Process

Users will need to be assigned to a process to access the Vena Templates and Reports.

<table>
<thead>
<tr>
<th>Vena Task Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owner</td>
<td>Will have permissions to enter data and also submit/review the task</td>
</tr>
<tr>
<td>Support Worker</td>
<td>Will only have the ability to enter data on the templates</td>
</tr>
<tr>
<td></td>
<td>Will not be able to submit or approve tasks</td>
</tr>
<tr>
<td>Watcher</td>
<td>Will only be able to view the data in templates</td>
</tr>
<tr>
<td></td>
<td>Will not have permission to enter data or submit/approve/reject tasks</td>
</tr>
</tbody>
</table>

1. Login to https://vena.io
2. Manager → Process → Accreditation 2.0

If user is a Faculty/Staff, they will have access to the Rubric Input & Course Report Process.
   1. Click Rubric Input & Course Report Process
   2. Under the Support Worker Section, click the drop-down button
      a. Search the user by their email address or type their name
      b. Select the user and press Enter

If user is a Department Representative, they will have access to their program’s Measured Indicators and Curriculum Mapping Process.

   1. Click Curriculum Mapping/Measured Indicators Input Process
   2. On the left-hand side, select their program’s Measured Indicator Activity
   3. Double-click the Measured Indicators Process
   4. Under the Support Worker Section, click the drop-down button on the right-side of the selected role
      a. Search the user by their email address or type their name
      b. Select the user and press Enter
   5. Double-click the Curriculum Mapping Process and follow step 4
   6. Return to Main Processes and double-click Reports
      a. Add user as a Watcher

If user is part of the Dean’s Office or received elevated access…
1. Review their credentials and obtain authorization before providing Owner access to the processes

**Versioning**
This Vena feature allows Vena Administrators to copy data from one portion of a database and write it to another portion. It is useful when you want to copy rubric data from one program to another (Click [here](#) for reference).

To complete the steps outlined in this page, you will need at least Modeler access.

1. Login to [https://vena.io](https://vena.io)
2. Modeler ➔ Versioning
3. Select Scenario
4. Expand ArchivedProgram
5. Leave the Page(s) field blank
   a. This ensures all data for all selected dimensions in the data model will be copied
6. Select the source program (from the expanded ArchivedProgram) and then press the ➔ button under the **Copy From** section
   a. This indicates where the data will be copied from
   ![Copy From](image)
   b.
7. Select the destination program and then press the ➔ button under the **Copy To** section
   a. This indicates where the data will be copied to
   ![Copy To](image)
   b.
8. Select No
   a. ![Yes, No](image)
9. Select Yes, make separate copies
10. Select Yes
   Do you want to run calcs?
   a. ☐ Yes  ☐ No

11. Select Yes
   Do you want to version parent members?
   a. ☐ Yes  ☐ No

12. Select Run
   a. 

13. Go to ETL History to ensure the job is complete

Cascade
The cascade feature enables users to generate the same Vena report for multiple courses or programs. This feature eliminates the need to manually generate the same report for multiple courses.

Generating a Mass Course Report
The steps below will show how to create
1. Select Contributor → Reports → Course Reports → View
2. Download and open the Course Report
   a. Click Enable Editing and Edit Content if the pop-up appears
3. Select a Course (belonging to the program), Year, Term, Section
4. Select the Vena Tab then click Cascade
5. For dimension, select Program
6. Select the courses belonging to the program (hold shift + click)
7. Change option from Cascade to Sheet to **Cascade to File**

8. Choose a location to save the files

9. Click **OK**

10. The Cascade feature will take approximately 5-10 minutes to complete

---

**Force Check-In**

Occasionally, a template is checked out by a user who is unavailable and it needs to be checked back in. See the steps below for checking a template back in.

1. If a template is checked out, try to contact the user and request them to check the template back in

2. If the user is unable to check in the template, a “Force Check-In” is required
   a. Manager ➔ Home ➔ Accreditation 2.0
   b. On the left-hand side, select **Status Tracker**
   c. Search for the template(s) that is currently checked out
d. On the right-hand side, select **Task Actions**

e. Select **View Checkouts**

f. Select the user by clicking the box next to their name

i. To select all users, click the box at the top row

   ```
   Rubric Input Template - Windows.xlsx: 1 page option(s) checked out.
   ```

   ii. **Contributor**  **Check Out Date**

   ```
   Force Check In (1)
   ```

g. Click **Force Check In**

h. A pop-up will appear confirming the template has been successfully checked in

   ```
   Page Options have been successfully checked in.
   ```

**Unsubmit**

If a task is inadvertently submitted, it is possible to “unsubmit” it. This is done by first pausing the process, then going to the status tracker. Right-click the submitted task and select the Reset Option. After this the process has to be unpaused.

**CourseList – Rubric Input Template**

When a course is updated, added, or removed, the CourseList sheet in the Rubric Input Template will need to be updated as well. The CourseList sheet is responsible for validating the course name, term, and section against the Vena database. If there is a discrepancy, the rubric input template will display an error message to the user.

**Updating the CourseList**

The following steps will need to be completed as a Vena Manager. Only the Vena Manager has the capability to update the template for all users.

*** **Vena Manager mode can only be accessed by a Windows-based operating system** ***

1. Under Manager view, select Home → **Accreditation 2.0**

2. On the left panel, select **Files Library**
3. Select **Input Forms**

4. Updating the **Windows and macOS Rubric Input Template**
   When updating the course information, both templates will need to be updated.
   a. Select **Rubric Input Template – Windows.xlsm**
      
      ![Rubric Input Template - Windows.xlsm](image)
   b. A pop-up will appear to save the template. Click **save** and remember the saved location of the template.
   a. Open the Excel File
      - If prompted, press **Enable Editing** in the Excel spreadsheet
      - If prompted, press **Enable Content** to allow Macros
c. Select a Course, Year, and Section
   i. The choices selected will not matter since we will be updating the template

d. Right-click the **Outcome_Measurement** sheet → select **Unhide** → select **CourseList** → select **OK**

![Unhide dialog box](image)

```
Outcomes_Measurement
```

e. Update the **Course; Term; Section** in the spreadsheet (Columns A-C)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course</td>
<td>Term</td>
<td>Section</td>
<td>Lookup</td>
</tr>
<tr>
<td>2</td>
<td>CHEM 1E03</td>
<td>Term 1</td>
<td>Section 1</td>
<td>CHEM 1E03Term 1Section 1</td>
</tr>
<tr>
<td>3</td>
<td>CHEM ENG 2D04</td>
<td>Term 1</td>
<td>Section 1</td>
<td>CHEM ENG 2D04Term 1Section 1</td>
</tr>
<tr>
<td>4</td>
<td>CHEM ENG 2G03</td>
<td>Term 1</td>
<td>Section 1</td>
<td>CHEM ENG 2G03Term 1Section 1</td>
</tr>
</tbody>
</table>

f. Copy the Excel formula in **Column D** down

g. Hide the **CourseList** sheet

h. Under the Vena tab, click **Save Template**

![Save Template](image)

i. Close the **Rubric Input Template**

Repeat steps 1-5 for **macOS Rubric Input Template**

---

**Reports**

The data in the MEASURE database is viewed using spreadsheet reports. The purpose of the reports is to transform the information into a form that is suitable for review – including by the CEAB when necessary. Reports can be viewed for any year where the data has been entered.
The Vena Reports are best viewed using a Windows-based operating system.

**Accessing the Reports**

1. Ensure the Contributor tab is selected

2. On the left side, click **Reports** (the centre section will reload to only display Reports)

3. Click **Reports**

**CEAB Attribute Report**

The CEAB Attribute Report displays the attribute results of a given program/course by year or term. Each bar in the report represents a Graduate Attribute. The bar may divide into 4 expectations.

The line indicates the average score for each attribute where 1 = Below expectations and 4 = Exceeds expectations.

1. Press **View** next to CEAB Attribute Report
2. Select a Course/Program, Term, and Section
3. **Download** and remember the saved location of the report
4. If prompted, Enable **Content** and Enable **Macros**
Vena’s Drill Down Feature

The Drill down feature enables users to view the raw data making up the sum of a selected expectation.

1. Select a cell intersecting an Attribute and Expectation

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Below Expectations</th>
<th>Marginal Expectations</th>
<th>Meets Expectations</th>
<th>Exceeds Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Knowledge base for engineering)</td>
<td>1234</td>
<td>1532</td>
<td>4320</td>
<td>2913</td>
</tr>
<tr>
<td>2 (Problem Analysis)</td>
<td>566</td>
<td>203</td>
<td>804</td>
<td>1528</td>
</tr>
<tr>
<td>3 (Investigation)</td>
<td>182</td>
<td>208</td>
<td>606</td>
<td>1882</td>
</tr>
<tr>
<td>4 (Design)</td>
<td>279</td>
<td>571</td>
<td>1782</td>
<td>1192</td>
</tr>
<tr>
<td>5 (Use of engineering tools)</td>
<td>152</td>
<td>153</td>
<td>613</td>
<td>345</td>
</tr>
<tr>
<td>6 (Individual and team work)</td>
<td>27</td>
<td>24</td>
<td>273</td>
<td>264</td>
</tr>
<tr>
<td>7 (Communication skills)</td>
<td>45</td>
<td>182</td>
<td>1210</td>
<td>689</td>
</tr>
<tr>
<td>8 (Professionalism)</td>
<td>53</td>
<td>139</td>
<td>67</td>
<td>937</td>
</tr>
<tr>
<td>9 (Impact of engineering on society and the environment)</td>
<td>19</td>
<td>62</td>
<td>381</td>
<td>1503</td>
</tr>
<tr>
<td>10 (Ethics and equity)</td>
<td>16</td>
<td>299</td>
<td>604</td>
<td>75</td>
</tr>
<tr>
<td>11 (Economics and project management)</td>
<td>5</td>
<td>22</td>
<td>13</td>
<td>258</td>
</tr>
<tr>
<td>12 (Life-long learning)</td>
<td>21</td>
<td>105</td>
<td>274</td>
<td>342</td>
</tr>
</tbody>
</table>

2. Select Drill Down
   a. For **Windows users**, select Vena Tab → Drill → Drill Down

   ![Vena Drill Down](image)

   b. For **macOS users**, select Drill Down
3. A new Excel worksheet will be generated displaying a breakdown of the data by course, year, attribute, section, value, etc.
   a. The sum of the **Value** column will equal the value of the selected cell

![Excel worksheet screenshot]

### Rubric Entry Report

The Rubric Entry Report monitors the progress of the rubric input. The report lists all the courses from a selected program. The report will display:

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
<td>- Course name</td>
</tr>
<tr>
<td>Status</td>
<td>- Displays the current status of the rubric input</td>
</tr>
<tr>
<td></td>
<td>o Options: BLANK, Not Started, WIP, Fully Complete</td>
</tr>
<tr>
<td>Measure Required?</td>
<td>✅ If Yes: At least (1) graduate attribute for a course is being measured for the year</td>
</tr>
<tr>
<td></td>
<td>✅ If No: The course does not have any graduate attributes measured for the year</td>
</tr>
<tr>
<td>Instructor Name</td>
<td>✅ Name of instructor teaching the course</td>
</tr>
<tr>
<td>Rubric Updated By</td>
<td>✅ The last user to update the rubric input template for the course</td>
</tr>
<tr>
<td>Last Rubric Save Time</td>
<td>✅ The last time the rubric input template was saved</td>
</tr>
</tbody>
</table>

1. Press **View** next to CEAB Attribute Report
2. Select a Program, Term, and Section
3. **Download** and remember the saved location of the report
4. If prompted, **Enable Content** and **Enable Macros**
Faculty and Curriculum Committee Recommendations Report
Displays the recommendations from the curriculum committee at both course and program level. This report can be viewed for any year where data is available. The data comes from the feedback provided in the Curriculum Committee Recommendations Input Template.

1. Press View next to Faculty and Curriculum Committee Recommendations Report
2. Select a Course/Program and Year
3. Download and remember the saved location of the report
4. If prompted, Enable Content and Enable Macros

To view an attached file:
   a. Select the cell containing an attachment
   b. Click on Comments under Vena Tab
   c. On the right-hand side, select the attached file
5. For macOS users, click **View All** under Vena Comments
   a. On the right-hand side, select the attached file

### Attribute Map Report

Indicates the measure level at the attribute level. If a different indicator level appears, the highest level will appear: I(ntroduced) → D(eveloped) → A(pplied)

1. Press **View** next to Attribute Map Report
2. Select a Program and Term
3. **Download** and remember the saved location of the report
4. If prompted, **Enable Content** and **Enable Macros**

### Attribute Map Summary Report

Similar to the Attribute Map Report, instead of showing the actual level (I, D, A), the summary report will only display the “X” to indicate that the specific course is measured at the specific attribute.

1. Press **View** next to Attribute Map Summary Report
2. Select a Program and Term

3. **Download** and remember the saved location of the report

4. If prompted, **Enable Content** and **Enable Macros**

### Indicator Map Report
Indicates the measure level at the indicator level.

1. Press **View** next to Indicator Map Report
2. Select a Program and Term
3. **Download** and remember the saved location of the report
4. If prompted, **Enable Content** and **Enable Macros**

### Historical Course Measurement Report
Shows the historical trend for each course at different levels (indicator, attribute and all).

1. Press **View** next to Historical Course Measurement Report
2. **Download** and remember the saved location of the report
3. Select a Course (and Graduate Attribute if necessary)

4. If prompted, **Enable Content** and **Enable Macros**

### Historical Course Measures

**Course:** TEST 101 (Test Course for Training 1)
**Attribute:** All
**Instruction:** Please select a course and attribute

<table>
<thead>
<tr>
<th>Year</th>
<th>Exceeds Expectations</th>
<th>Meets Expectations</th>
<th>Marginal Expectations</th>
<th>Below Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-2014</td>
<td>25.0%</td>
<td>25.0%</td>
<td>25.0%</td>
<td>25.0%</td>
</tr>
<tr>
<td>2014-2015</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2015-2016</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2016-2017</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2017-2018</td>
<td>25.0%</td>
<td>25.0%</td>
<td>25.0%</td>
<td>25.0%</td>
</tr>
<tr>
<td>2018-2019</td>
<td>34.9%</td>
<td>21.7%</td>
<td>19.5%</td>
<td>24.1%</td>
</tr>
</tbody>
</table>

### Historical Program Measurement Report

Shows the historical trend for each program at different levels (indicator, attribute and all).

1. Press **View** next to Historical Program Measurement Report
2. **Download** and remember the saved location of the report
3. Select a Program (and Graduate Attribute if necessary)
4. If prompted, **Enable Content** and **Enable Macros**
Course Report
Displays the course outcome, recommendations from the curriculum committee, the continuous improvement plan, and charts generated from the rubric entry. Every course for which rubric data is entered will have a corresponding Course Report.

<table>
<thead>
<tr>
<th>Year</th>
<th>Exceeds Expectations</th>
<th>Meets Expectations</th>
<th>Marginal Expectations</th>
<th>Below Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-2019</td>
<td>20.7%</td>
<td>40.3%</td>
<td>19.8%</td>
<td>25.2%</td>
</tr>
<tr>
<td>2013-2014</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2014-2015</td>
<td>12.6%</td>
<td>44.9%</td>
<td>32.2%</td>
<td>10.3%</td>
</tr>
<tr>
<td>2015-2016</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2016-2017</td>
<td>0.8%</td>
<td>51.9%</td>
<td>27.0%</td>
<td>19.3%</td>
</tr>
<tr>
<td>2017-2018</td>
<td>30.1%</td>
<td>36.7%</td>
<td>18.2%</td>
<td>14.2%</td>
</tr>
<tr>
<td>2018-2019</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>
# Appendix I: Previous Modification Log

<table>
<thead>
<tr>
<th>Version</th>
<th>Modification date</th>
<th>Author</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>July 4, 2016</td>
<td>Evan Situ</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>August 29, 2016</td>
<td>Evan Situ</td>
<td>Added section 6 and 8 and 1.4</td>
</tr>
<tr>
<td>1.2</td>
<td>September 13, 2016</td>
<td>Evan Situ</td>
<td>Added 9. Updating a Global Variable</td>
</tr>
<tr>
<td>1.3</td>
<td>September 16, 2016</td>
<td>Evan Situ</td>
<td>Added Section 10 Force Check-In</td>
</tr>
<tr>
<td>1.4</td>
<td>September 26, 2016</td>
<td>Evan Situ</td>
<td>Added 11. Update Course Information Input Template</td>
</tr>
<tr>
<td>1.5</td>
<td>October 20, 2016</td>
<td>Michelle Zheng</td>
<td>Minor edits</td>
</tr>
<tr>
<td>1.6</td>
<td>November 16, 2016</td>
<td>Michelle Zheng</td>
<td>Added title page and Section 7</td>
</tr>
<tr>
<td>1.7</td>
<td>November 29, 2016</td>
<td>Michelle Zheng</td>
<td>Updated Section 4</td>
</tr>
<tr>
<td>1.8</td>
<td>December 16, 2016</td>
<td>Spencer Smith</td>
<td>Changing template property for concurrent contributors</td>
</tr>
<tr>
<td>1.9</td>
<td>January 19, 2017</td>
<td>Spencer Smith</td>
<td>Clarification of submitting rubric and course reports</td>
</tr>
<tr>
<td>1.9.1</td>
<td>April 19, 2017</td>
<td>Spencer Smith</td>
<td>Note about protected cells</td>
</tr>
<tr>
<td>1.9.2</td>
<td>April 12, 2018</td>
<td>Spencer Smith</td>
<td>Addition on adding superuser permissions</td>
</tr>
<tr>
<td>1.9.3</td>
<td>April 18, 2018</td>
<td>Andrew Aran</td>
<td>Updated screenshots for:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 4. Add User</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 5. Assign User to Process</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 7. Faculty Recommendations</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 8. Start New Academic Year</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 9. Historical Program Measurement Archive</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 11. Updating a Global Variable</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 13. Update Course Information Input Template</td>
</tr>
<tr>
<td>1.9.4</td>
<td>May 3, 2018</td>
<td>Andrew Aran</td>
<td>Updated Global Variable Process</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Updated the order of the tasks in the instructions</td>
</tr>
<tr>
<td>Version</td>
<td>Date</td>
<td>Author</td>
<td>Changes</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1.9.5</td>
<td>October 15, 2018</td>
<td>Andrew Aran</td>
<td>- Added Contract Renewal Interval to timeline</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Added backup and restore interval to timeline</td>
</tr>
<tr>
<td>1.9.6</td>
<td>April 29, 2019</td>
<td>Andrew Aran</td>
<td>- Added instructions to access CEAB Attribute Report and Drill Down Feature</td>
</tr>
</tbody>
</table>