



Legac-e Education

How to use
Legac-e Education
WEB-based Courseware



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How to use Legac-e Education Internet-based courseware

1 - Introduction

This document explains the how to use the WEB-base courseware provided by Legac-e Education, including restrictions applicable to client software.

Client software is that installed on the desktop computer, laptop computer or notebook computer used to gain access to the material.



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2 - Client software

It is expected that the desktop computer, laptop computer, or notebook computer used to gain access to the workshop material will meet the following requirements.

2.2 - Operating System

This should be Windows/XP as a minimum.

Whilst other operating systems, such as Linux, may be acceptable they will not have been tested by Legac-e Education.

2.3 - WEB Browser

The material has been tested with Microsoft's Internet Explorer Version 6, Mozilla Firefox Version 3, and Opera.

The browser must have scripting and cookie support enabled for full functionality of the courseware.

2.4 - Java Virtual Machine (JVM)

A Java Virtual Machine must be active as Java Applets provide some of the courseware functionality.

2.5 - Adobe Acrobat

Adobe Acrobat Reader Version 6 or higher is required to view and print the student handouts.

2.6 - Screen Resolution Size

The optimum screen resolution size is 1024 x 768.



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2.7 - Mainframe Session Access

Where practical exercises form part of the material a suitable TelNet 3270 Emulator will be required.

Legac-e Education uses a product called Vista, but other applicable products are:

- Extra - from Attachmate
- PCOM – from IBM
- TN3270 - from SDI

A Google search for “3270 Emulators” will produce a list of options some of which may be free if your computer does not already have such an emulator.

Note:

Some of the courses allow job submission directly from the WEB to our z/OS System, and provide the capability to view the output.



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3 - Server software

3.2 - Operating System

The courseware is delivered from an IBM z/OS 1.8 platform.

3.3 – Application Server

This is IBM's CICS Transaction Server Version Release 1.

The driving logic is formed from eight COBOL programs to track and deliver the content, with an Assembler program to convert input Text files to 80-byte images for processing by the Job Entry Sub-system (JES2).

3.4 – Courseware page storage

Each course is held in its own z/OS UNIX System Services Hierarchical File Storage (HFS) data set.

CICS Document Templates and URI Maps are used to ensure that the correct pages are located by the server logic.

All associate JavaScript and Cascading Style Sheets are also stored in z/OS UNIX System Services HFS, with CICS URI Maps providing appropriate linkage.



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4 – Accessing the Courseware

Step 1 – Display identification screen

Users will need to open a Browser and set the Address Bar to:

www.legac-e.co.uk/courses

This should produce a display similar to the following:

e-Learning - access control

Connecting from: 81.138.19.194 on 14 Oct 2009 at 11:54:34

Please enter your Userid: password: and Course

ASMB ▲
CHAN ▲
JCLA ▲
JCLB ▼

 then

BUTTON USE:
If the **Quit** button is not used to exit the course, future access will be denied, as the system will not have disconnected the user.

If the **Browser Back** button is used, rather than **Prev Module** the results will be unpredictable.

TECHNICAL NOTE
This course requires both **Script & Cookie Enablement** in the browser plus a **Java Virtual Machine (JVM)** to operate effectively.

This course material is hosted on z/OS Unix System Services, with CICS/TS 3.1 acting as the WEB Server.
The server logic is composed of 8 COBOL programs. It has been tested against Internet Explorer 7, Firefox 3.0 and Opera

If any errors occur -
please call +44 (114) 262 0933 or e-mail support@legac-e.co.uk



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Step 2 - Authentication

Entry of the correct Userid and Password combination in conjunction with the 4-character course code will throw the first module's menu in the browser window. (Details of Userid, Password and Course codes are listed in Appendix A.)

Below is the sample screen for the CICS Channels and Contains course to give a feel for what is displayed.

The screenshot shows a web browser window with the Legac-e Education logo and a navigation menu. The menu includes options like 'Introduction', 'Sample Program', 'Checking the Interface', 'Enabling the Interface', and 'Addressing the Host'. Below the menu are buttons for 'Prev Module' and 'Quit', and a copyright notice for 2004-2010.

Overlaid on the right side of the screenshot is a REXX program code snippet:

```

/* REXX Code to run an SQL query against SYSPLAN. */
Arg creator target_ref .
Say 'Processing DB2 Table Entries for' creator
cl  = LENGTH(creator)
Drop deltab.; deltab.0 = 0; plan = ""; i = 0
If creator = "" Then Do
    Say 'No Creator provided - Ending'
    Exit 16
End

"SUBCOM DSNREXX"
If rc ~=0 Then s_rc = RXSUBCOM('ADD','DSNREXX','DSNREXX')
Address DSNREXX
"CONNECT" DB8G
stp1 = 'SELECT '
stv1 = 'TSNAME, CREATOR, ALTEREDTS, DENAME '
stp2 = " FROM SYSIBM.SYSTABLES WHERE TYPE = 'T'"
stp3 = ' AND SUBSTR(CREATOR,1,||cl||) = "'
stmt = stp1||stv1||stp2||stp3||creator""
"EX
If
"EX
If
"EX
If
Say
Do

```

Overlaid on the bottom right of the screenshot is a white box with the following text:

**REXX Programming
with DB2 / SQL**

1 Module

Once a screen like the above appears the student has been accepted onto the system and may progress through the material. (Each course will have a similar initial screen although the text and image on the right will differ.)



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5 - Courseware Navigation

There are three types of navigation aid:

- Primary – Module to Module.
- Secondary – Topic to Topic (within Module)
- Tertiary – Eliciting supplementary information

5.1 – Primary (Module to Module)

The illustration on page 6 (opposite) shows that there are four navigation buttons.

As individual module topics are opened in a separate window, it is best to close that window before using any of the main menu buttons describes here.

Restart (Pale Blue)

This button interacts with the server logic and will cause the main menu panel to be refreshed with the menu for the first module in the course.

Next Module (Green)

This button interacts with the server logic and will cause the next module's menu panel to be displayed. (If the current display is relevant to the last module, the current menu is refreshed.)

Prev Module (Amber)

This button interacts with the server logic and will cause the previous module's menu panel to be displayed. (If the current display is relevant to the first module, the current menu is refreshed.)

Quit (Red)

This button interacts with the server logic and will cause the exit panel to be displayed.

It is important that this button be used to quit the material as it deletes the internal use record. **Simply closing the Browser will inhibit future access for the day.**



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5.2 – Secondary (Topic to Topic)

The illustration on page 6 shows a selection box between the “Next Module” and “Prev Module” buttons.

Selecting a topic from the current menu will open a new window in which the topic is displayed. The **Browser back button is not available in this window**, so the NEXT and PREV buttons should be used to navigate back and forth through the topics.

The topic menu can be used to jump around topic instead of the NEXT and PREV but this will minimize the topic window, which then needs re-selecting from PC active window tray.

For normal operation our recommendation would be to use the NEXT and PREV buttons at the top of each page, reserving the ability to skip via the topic menu to revision situations.

5.3 – Tertiary (Eliciting supplementary information)

Any page may contain a blue underscored text which constitutes a link: to supplementary material.

This material will be presented in its own pop-up window.

5.4 – Browser Back Button/Function

The Browser Back Button or Function should not be used while accessing the course material.

The server is tracking the module to module progress and cannot detect the use of the Back Button which causes unpredictable results.



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6 – Student Handouts

These are all produced in PDF format and require Adobe Acrobat Reader to be viewed.

They are intended to be duplex printed so that when open the even number pages are on the left and the odd number pages are on the right.