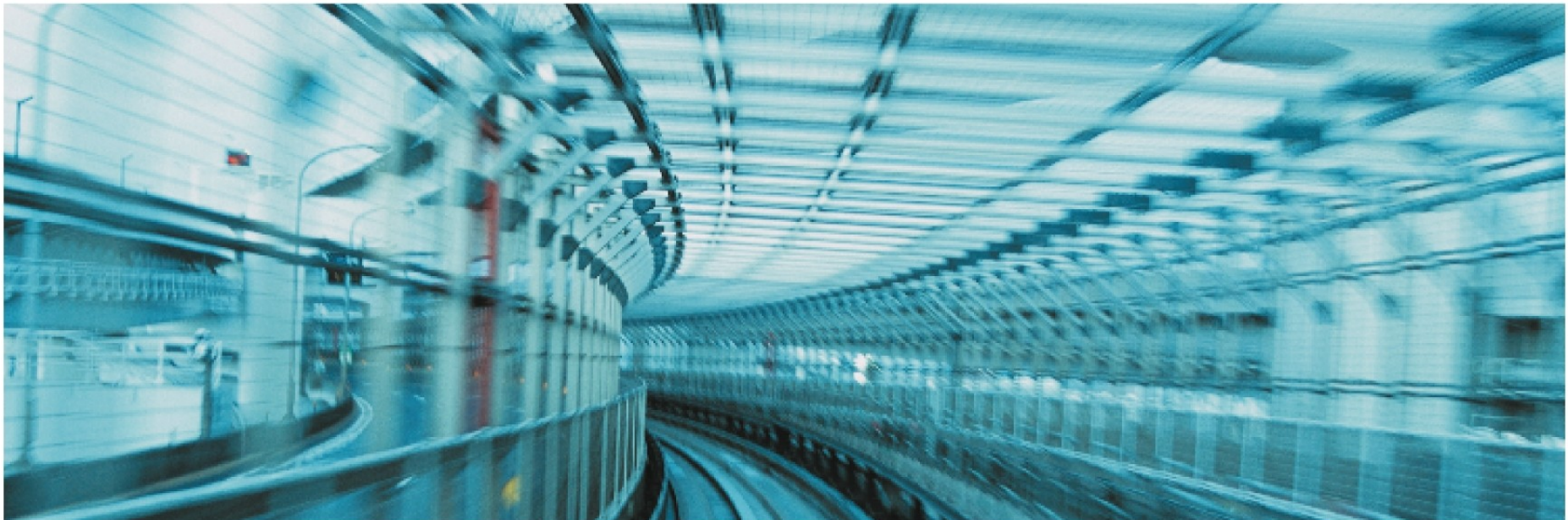


# e-Learning:

## Sistem Pembelajaran Jarak Jauh Berbasis Web

*Vivi Oktavia, IBM Software Group*





Let's build a smarter planet.



# Agenda

- Manfaat Pembelajaran Jarak Jauh berbasis web: Belajar dari pengalaman IBM
- e-Learning Model IBM
- Pendekatan dan penerapan e-Learning dalam organisasi



# Experience & Know-how: IBM's Use of e-Learning

- Overall education days in IBM increased 50% year-to-year while overall spending remained constant
- % e-Learning to Classroom:
  - ▶ 1999 - 25%
  - ▶ 2000 - 37%
  - ▶ 2001 - 40%
  - ▶ 2002 onwards – 45% - 50%

FY	Savings - Goal	Savings - Actual	Goal Exceeded By
1999	\$103 M	\$166 M	61%
2000	\$182 M	\$350 M	92%
2001	\$315 M	\$420M	42%
2002	\$330 M	\$450 M	36.3%
2003	\$400 M	\$530 M	32.5%
2004	\$450 M	\$630 M	40%



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# Components Breakdown for eLearning

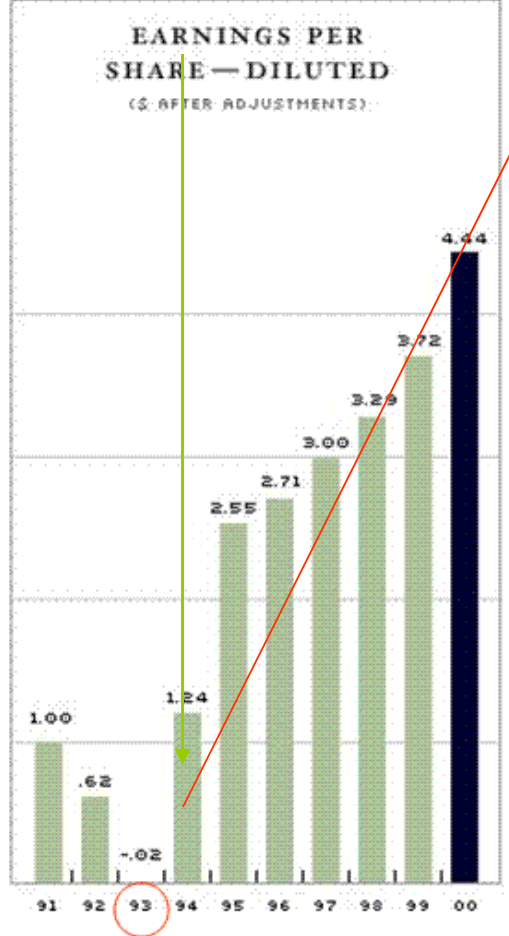
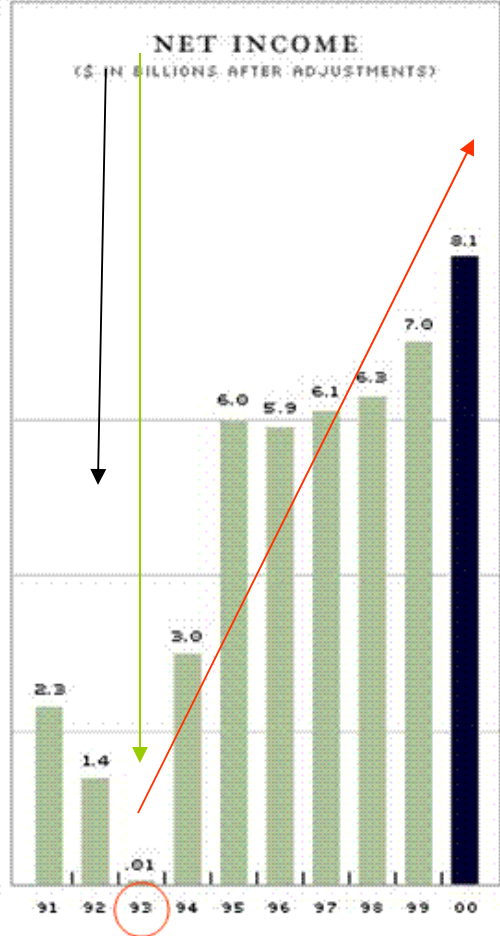
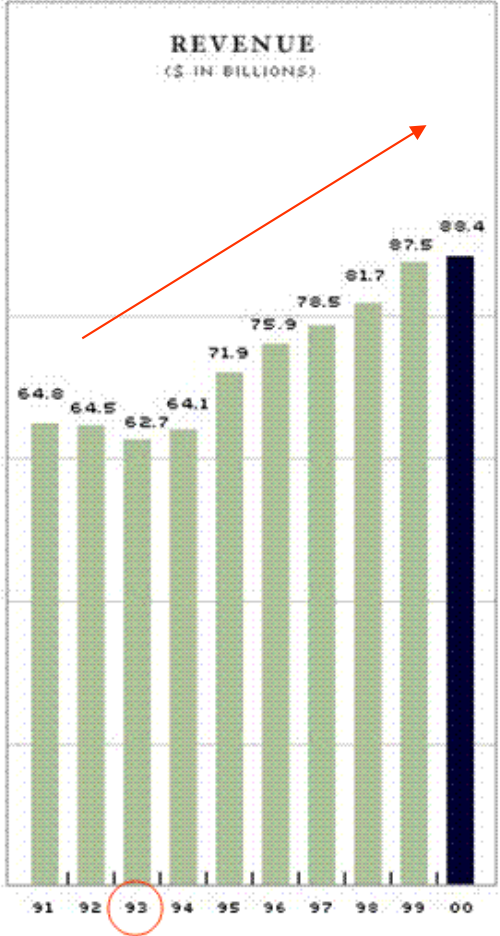
## Top e-Learning Contributors for IBM- 2000 (@\$350 M)

Program	Description	Savings
IBM Global Campus	e-Learning Portal	\$68 Million
Web Lecture Services	On-line Presentations	\$55 Million
Management Development	Management Training Program	\$20 Million
Sales Compass	High Performance Selling Tool	\$17 Million
WebAhead e-meetings	e-Meetings	\$14 Million
Video Jukebox	View or present meetings or videos over the Internet	\$9 Million
<b>TOTAL</b>		<b>\$350 Million</b>



# IBM Performance

## Learning, Knowledge Management & Business Transformation





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# IBM 4-Tier Learning Model provides a framework to create blended learning approaches (e-learning approach)

Learn from Collocation	<b>4</b> Experience Based Learning	Face-to-Face
Get together; Live it, Do it: Build Communities & Relationships	Learning Labs, Classroom, Mentoring, Role Playing, Coaching, Case Studies, Expert Presentations, Motivational Speeches	
Learn from Collaboration	<b>3</b> Collaborative Learning	Collaborative
Discuss it, Practice it with Others	Live Virtual Classroom, e-Labs, Collaborative Sessions, Real-time Awareness, Live Conferences, Teaming	
Learn from Interaction	<b>2</b> Interactive Learning, Simulation and Games	Multimedia
Examine it, Try it, Play it	CBT/WBT Modules, Self-Directed Learning Objects, Interactive Games, Coaching & Simulations	
Learn from Information	<b>1</b> Performance Support & Reference Materials	Internet
Read it, See it, Hear it	Web Lectures, Web Books, Web Conferences, Web Pages, Videos	

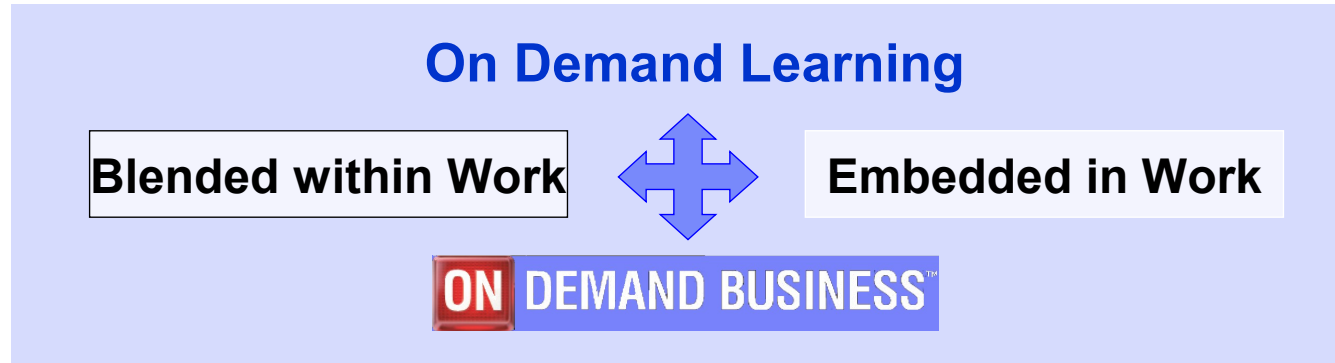


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IBM

# Learning is a key enabler to the on demand world



**In an on demand business, learning will be:**

- **tied to business results and aligned with business strategy**
- **tailored to specific job roles**
- **implemented using a blended learning model with content linked to business need**
- **scaled to respond dynamically to business changes**



# e-Learning is helping to transform organizations

## Workforce Transformation

- Professional and fundamental skills training
- Competency development
- ISV/ERP/ Custom Application rollout support
- Performance support
- Leadership and management development
- New process training
- Compliance Programs
- Occupational safety/EHS



## Supplier/Partner Education

- E-procurement training
- Partner awareness and training
- Training to support virtual supply chain activities
- ERP education

## Citizen Education

- Workforce development
- Self Service education



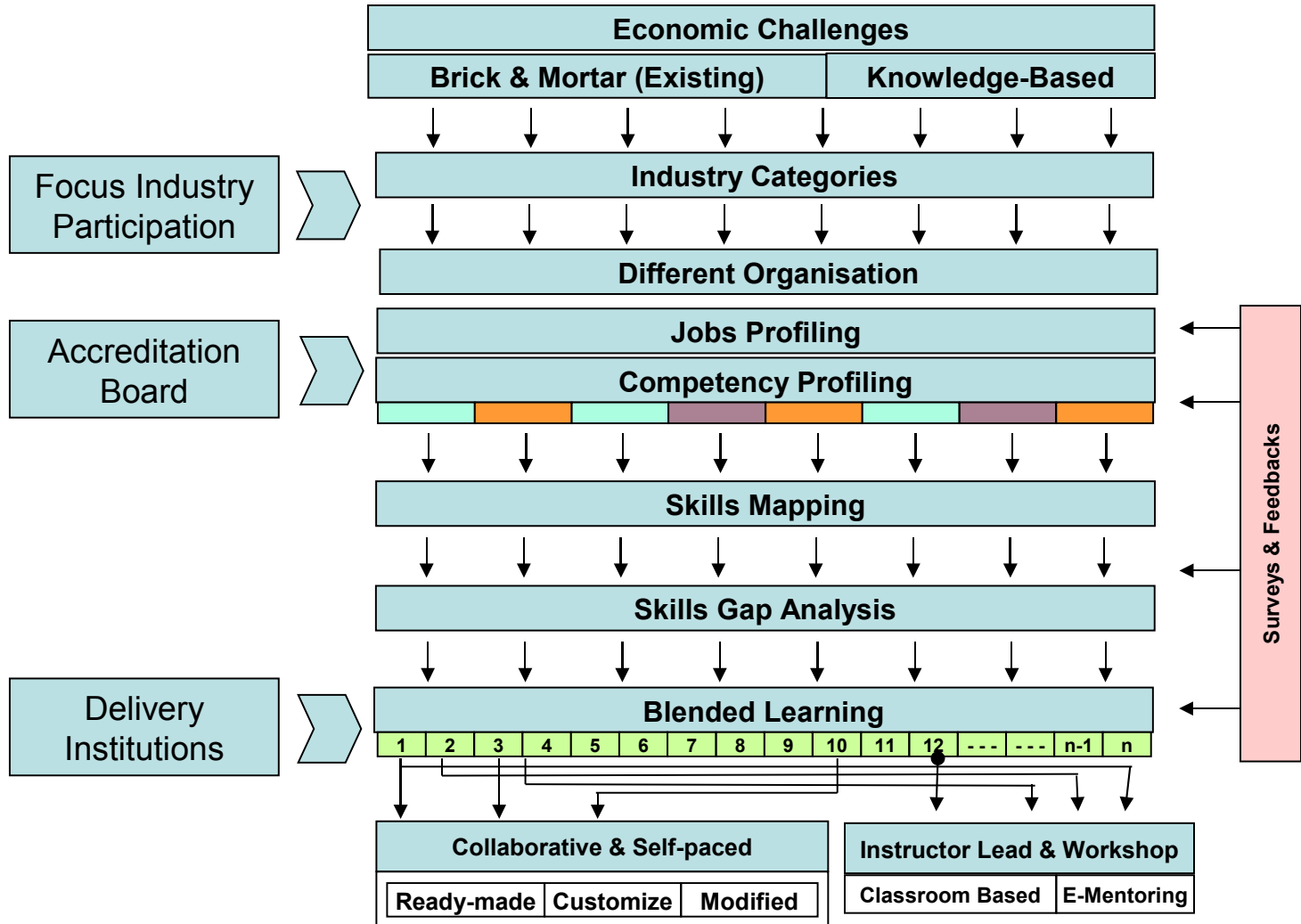
## Service Optimization

- Service methodologies
- Citizen Service transformation support
- Process knowledge
- Services tools training (e.g., Siebel)





# Workforce Transformation Support



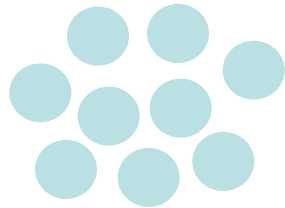


Let's build a smarter planet.



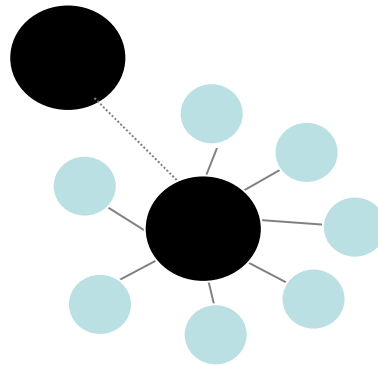
Many global organizations are attempting to take a holistic approach to achieve Enterprise Learning

### Distributed Learning Environment



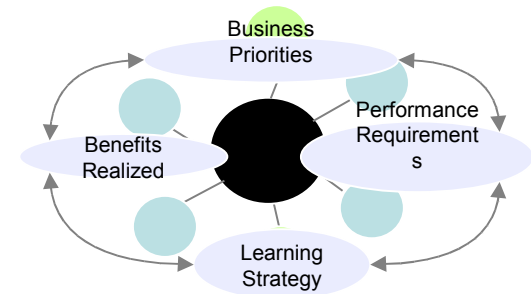
Multiple learning strategies and solutions developed at business unit level

### Hub and Spoke Learning Environment



Enterprise-wide learning vision and strategy that capture the learning needs of employees, channel partners and customers

### Integrated Learning and Performance Environment



Strong linkages between business priorities, performance requirements and the learning strategy to create real benefits for the business

Increased role of learning as a strategic lever





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# Blended E-Learning is the application of IT for Management of:

## Business Processes

Approvals & Notifications

Skills & Competency Management

Assess Programme Effectiveness

Report Adoption Rate & Results

Certification & Mediations

## Convenience & Security

Single-Sign-On (e.g. Portal)

Unicode (Multiple languages)

Low on bandwidth (Offline)

Scalable & Robust

Standards Compliant

## Resources

Learning Materials

Learning Facilities

Learning Events

Learning Activities

Learning Resources (others)

## Networking & Collaboration

Document Management

Collaborative Capabilities

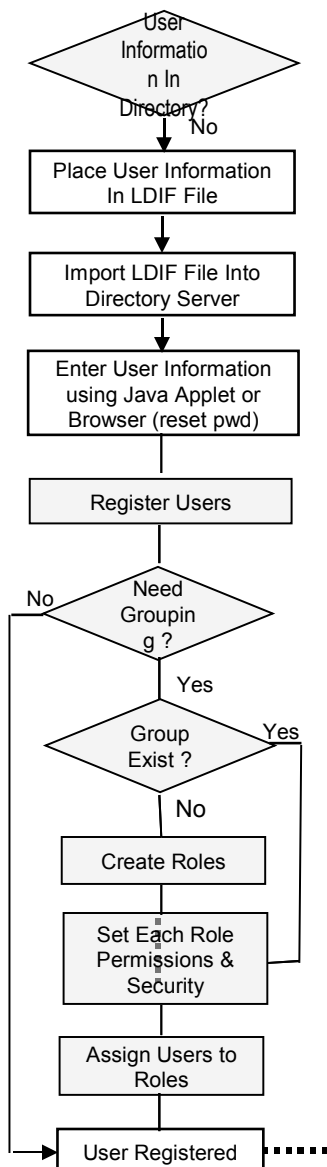
Expertise Access

Alerts & Notifications

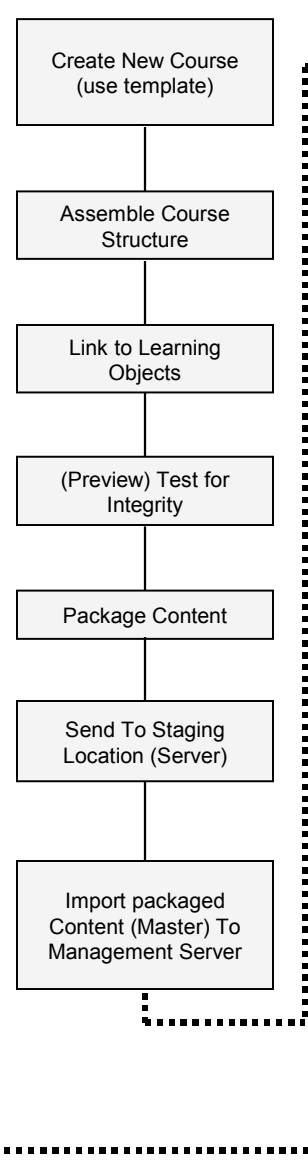
Embedded & Pervasive



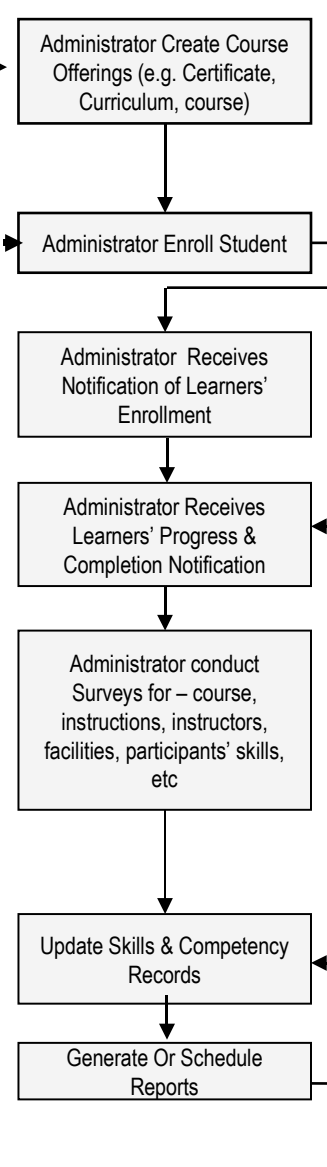
**Learning Administrator (Registrar)**



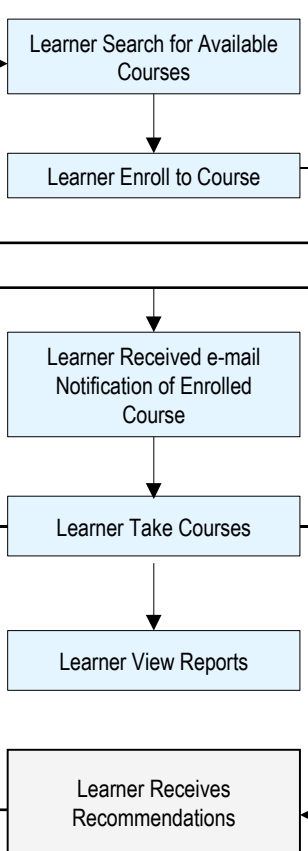
**SME (Content Developer)**



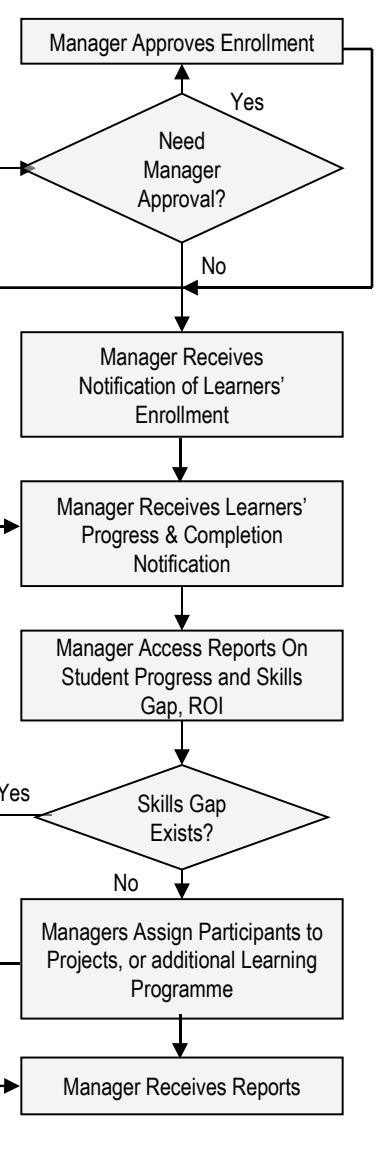
**Learning Administrator (Course Admin)**



**Learner**



**Manager**

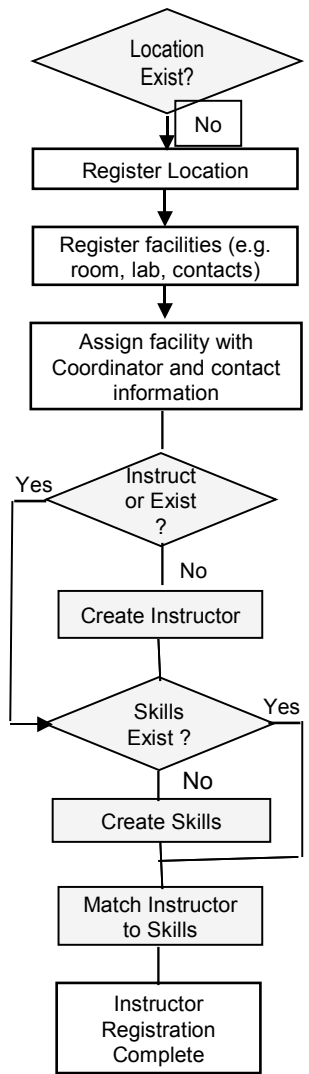




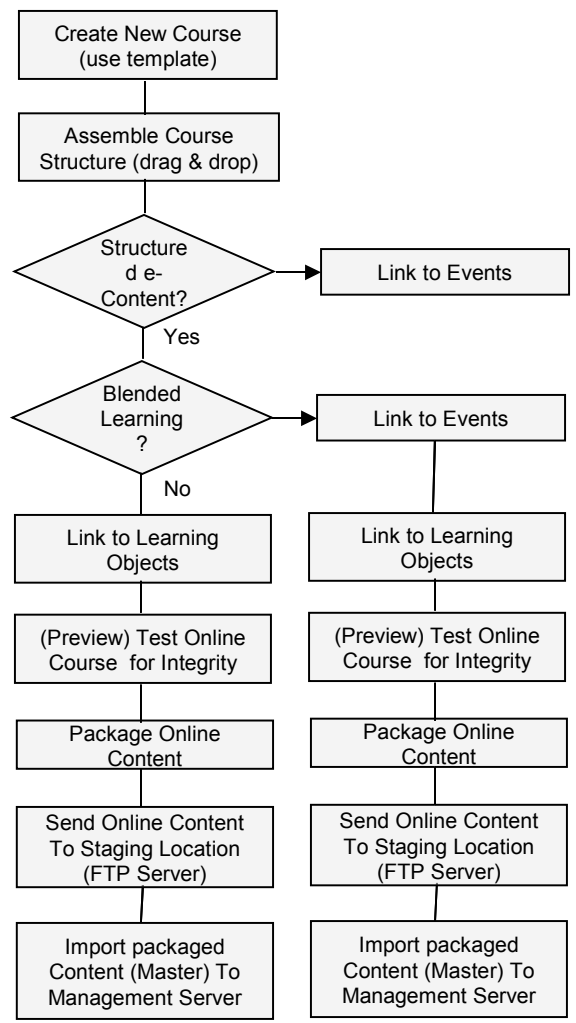
# Let's build a smarter planet.



## Resource Administrator



## Content Developer (SME)



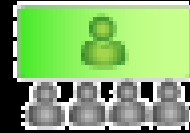


# Training Deployment Process

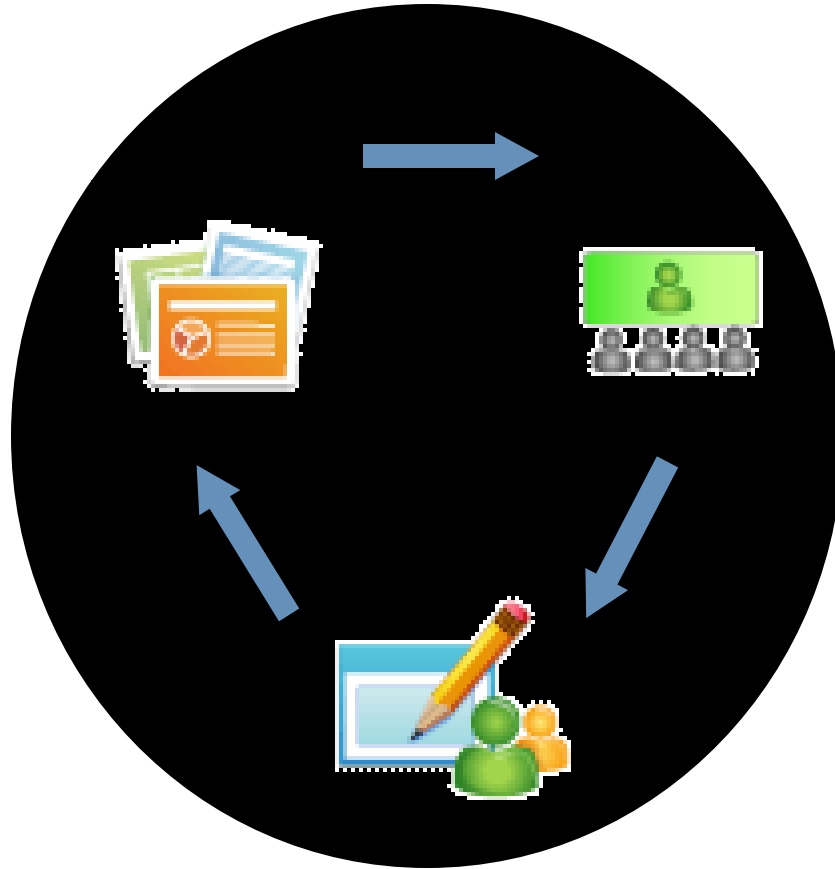
**Populate the  
Course Catalog  
and Enroll  
Students**



**Teach and  
Track Progress**



**Report Progress  
and Analyze**





# Deploying Content

## IBM Authoring and Assembly Tool

- Course syllabus, assessments and simple content
- Import AICC or SCORM
- Add your own lessons to existing courses
- Add custom rollup or sequencing rules
- Outputs SCORM 1.2 Course Package

IBM Workplace Collaborative Learning Authoring Tool d:\Courses\NFLTraining

File Edit View Selected Insert Tools Help

Go to Planner Go to Authoring

Course Outline

- NFL Conduct Guidelines
  - Pre Work
  - Pre-Assessment
  - Assignments
    - Speech from Michael
    - Horse Racing Primer
    - History of Rome
    - Breakthrough Thinking Simulator
    - Testing Types Available
    - Jeopardy
  - Final Test
  - Assessment

Properties Sequencing Objectives...

View  All  Required \* = Required

Property	Setting
<b>General Settings</b>	
Title *	NFL Conduct Guidelines
Course Number *	NFL-101
Description	This two-hour course will highlight the key provisions of the NI
Announcement Page	NFL Conduct Guidelines.htm
Time Estimate Hours:Minutes:Seconds	00:02:00:00
<b>Delivery Settings</b>	
Allow Preview	False
Allow Offline Use	False
Time Delay Between Retakes	00:00:00:00
<b>Advanced Settings</b>	
Identifier *	DFF862EDCCAF4F899CB6C1C45D47B3A0

General Settings

To change a property setting click on the cell and begin typing. You may also use the button or pulldown that appears to the right of the cell to prompt for a value. To navigate within the properties form, you also may use the arrow keys.

Planner Planner Ref #: 1 Planner Type: Course Plan Monday, September 17, 2007



# Deploying Content

## Course Upload and Registration

- Command Line Import (CLIMP) or
- Portlet Import (PIMP)
- Support for SSL during course upload
- Support for strict or non-strict import

IBM WebSphere Portal - Mozilla Firefox: IBM Edition

File Edit View History Bookmarks Tools Help

http://kermie.mul.ie.ibm.com/wps/myportal/!ut/p/c1/pc8xD4IwEIbhn3TXem1ZQQWKWhyoAgthMnpEqIPx94I

Collaborative Learning > Learning Management > Catalog Management > Course Upload >

Search: All Sources

Log Out

Learning Management My Learning

My Dashboard  
Welcome

Course Management

Announcements

Catalog Management  
Master Catalog  
Offering Catalog  
Course Upload

Reports

Resources

Users

Skills

Advanced Settings

Data Loader

Course Package Upload

**Course Upload**

Complete the three steps in this easy process to create or update a course Master in the Learning system from a course package. The course you upload must conform with SCORM 1.2 or AICC standards.

**Step 1 of 3: Select Course Package and Validate**

Browse your computer to select a course package to process.

Course Package: D:\Course Packages\LikertSurvey.zip

Decide if you want to turn on strict validation of your course package upload.

Strict Validation:  Off  On

Home Documents Messaging Site Map



# Deploying Content

## Creation of Offerings

- Select Content Server
- Set up enrollment options
  - Self-enrollment
  - Waitlists, approvals, etc
  - Catalog folder
- Set up Collaboration options
  - Discussion server
  - e-mail and chat
- Version Management

IBM WebSphere Portal - Microsoft Internet Explorer

Address: <https://snoozy.muli.ie.ibm.com/wps/myportal/ut/p> Go Links: IBM Business Transformation Homepage Back

Course Contact: Christopher Hagan Administrator

Enrollment Maximum:

Enrollment Minimum:

Allows Self-enrollment:

Allows Self-unenrollment:

Requires Manager Approval:

Requires Approver Approval:

Approver List:

Has Wait List:

Requires Student on Can Attend List:

Student Attend List:

**Discussion**

Discussion Server \*:

Name \*:

Description:

**Custom Fields**

Local intranet



# Deploying Content

## Curriculums and Certificates

- Method for assigning a collection of courses
  - student must finish all assigned courses
  - great way to assign classes
- Certificates also include:
  - Due Dates
  - Renewal Lists
  - Reminder e-mails

https://snoozy.mul.ie.ibm.com - Certificate Progress Detail - Mozilla Firefox: IBM Edition

IBM Learning Management System September 18, 2007 9:29 PM

### Certificate Progress for Bob McMullan Administrator

**CD-101 - Content Development 101**

Certificate has not been awarded. The student was enrolled on 2007-09-18. The due date is 2007-11-17.

Course Code / Title	Progress	Completed	Score
TEAM8224- Virtual Project Management_Scorn	Not Enrolled		
Entry- Classical Music, Cathy's	Not Enrolled		
Complete 1 of the following 2 courses			
swu_sat_solved - SWU- Rollup Course Through Satisfaction Solved	Not Started		
874333 - Flash Quiz Test Course	Not Enrolled		

End Report

Done snoozy.mul.ie.ibm.com



# Enrolling Students

## Self-Enrollment

- Courses, Curriculums or Certificates
  - Waitlists and Approvals are enforced
  - Course preview option
- Catalog can be searched or navigated
  - Faster searches
  - Custom fields can be viewed

The screenshot shows a web browser window titled "IBM WebSphere Portal - Mozilla Firefox: IBM Edition". The address bar shows a URL starting with "http://kermie.mul.ie.ibm.com/wps/myportal/". The page content includes a navigation menu on the left with items like "Welcome", "Enrolled Learning", "My Schedule", "Course Catalog", "My Progress", "Notifications", "My Learning Plan", "Recommended Learning", "My Folders", and "Invitations". The main content area is titled "Course Catalog" and contains a search bar with the text "Test" and a "Search" button. Below the search bar, there are two columns: "Browse Catalog" with links for "Chris", "Dan", "Human Resources", "Kat", and "Phil"; and "Courses Found" which lists search results. The search results show "2 results found for Test in any". The first result is "ICL AAT Test : ICLAATquiz" with a description "Test a quiz authored in AAT with ICL" and "Education Type: Self Paced Language: not specified". The second result is "LMS Quick Test : cl-1" with a description "LMS Quick Test" and "Education Type: Self Paced Language: not specified". A "Sort By" dropdown menu is visible on the right, showing options for "Name" and "Type". The page footer indicates "Page 1 of 1".



# Enrolling Students

## Administrative Enrollment

- Allows admins, managers, etc to enroll students
  - Ability to override waitlist or approval restrictions
  - Student automatically notified
- New option for invitations

The screenshot shows the 'Enrollments and Invitations' page in the IBM WebSphere Portal. The page is titled 'Enrollments and Invitations' and shows a search for users. The search results table lists 12 students, with 'Beena Balan Student' and 'Dan Spielman Student' selected. A 'Simple Search' sidebar is visible on the right.

Full Name	User ID	E-Mail
<input type="checkbox"/> Anne OConnor Student	anne oconnor_s	aconnor_s@mcbain.mul.ie.ibm.com
<input checked="" type="checkbox"/> Beena Balan Student	bbalan_s	bbalan_s@mcbain.mul.ie.ibm.com
<input type="checkbox"/> Christopher Hagan Student	christopher hagan_s	chagan_s@mcbain.mul.ie.ibm.com
<input checked="" type="checkbox"/> Dan Spielman Student	dan spielman_s	dspielman_s@us.ibm.com
<input type="checkbox"/> Declan McCabe Student	declan mccabe_s	dmccabe_s@us.ibm.com
<input type="checkbox"/> Frederic Biava Student	frederic biava_s	fbiva_s@mcbain.mul.ie.ibm.com
<input type="checkbox"/> Jose Serra Student	jose serra_s	jserra_s@mcbain.mul.ie.ibm.com
<input type="checkbox"/> Kathleen Murray Student	kathleen murray_s	kmurray_s@mcbain.mul.ie.ibm.com
<input type="checkbox"/> Philippe Creux Student	philippe creux_s	pcreux_s@mcbain.mul.ie.ibm.com
<input type="checkbox"/> Praveen Madire Student	praveen madire_s	pmadire_s@mcbain.mul.ie.ibm.com



# Enrolling Students

## IBM Data Loader

- Upload comma separated variable (CSV) files to enroll students
- Typical scenarios
  - HR Database feeds enrollments
  - New hire entered into training
  - New job role triggers training

IBM WebSphere Portal - Mozilla Firefox: IBM Edition

File Edit View History Bookmarks Tools Help

http://kermie.mul.ie.ibm.com/wps/myportal/!ut/p/c1/pdCxDoIwEAbgJzJ3raVpVgGfctCbKQDoQ0EXAwPr8Y

My Dashboard  
Welcome

- Course Management
  - Results and Courses
  - Enrollments and Invitations
- Announcements
- Catalog Management
  - Master Catalog
  - Offering Catalog
  - Course Upload
- Reports
- Resources
- Users
- Skills
- Advanced Settings
- Data Loader
  - SpreadSheet Loader

Spreadsheetloader portlet

Spreadsheet Data Loader Confirmation page

File type: **Result loading file ....**

File uploaded: **bobResults.csv**

User Id *	Course Code *	Course Title	Start Date (YYYYMMDD)	Start Time (HHMM)	Completion (0-100) *	Pass/Fail Status (pass/fail)	Score (0-100)	Completion Date	Time Spent (HHMM)
bob mcmullan_s	cl-1	LMS Quick Test	20060901	910	100	pass	95	20060910	100

Show at a time [10](#) | [25](#) | [50](#) | [100](#) | [Show All](#)

e-mail:

When would you like e-mail notification?

When the operation has completed  When the operation has started and when it has completed  Never

Insert a task ID for this operation \*

Done



# Enrolling Students

## Skills Management

- Identifies skill gaps and assign training
- Required skills set up in hierarchies
  - Job Role
  - Required Skills
  - Proficiency Levels
- Training assigned to skills / proficiency levels
- Training can be auto-assigned or suggest to students

Junior Application Developer

Database Mgmt

Database Design

1. Basic Understanding
2. Working Experience
3. Extensive Experience
4. Subject Matter Expert

1. Novice
2. Beginner
3. Advanced

IBM WebSphere Portal - Mozilla Firefox: IBM Edition

https://snoozy.mul.ie.ibm.com/wps/myportal/tut/p/c1/pZLDLoJADEU\_qZ1hHmwl6oAYkMigw4YQQ5CEhzHGxL8Xw5qZhb

Collaborative Learning > Learning Management > Skills > Career Development >

Learning Management | My Learning

My Dashboard  
Welcome

- Course Management
  - Results and Courses
  - Enrollments and Invitations
- Announcements
- Catalog Management
  - Master Catalog
  - Offering Catalog
  - Course Upload
- Reports
  - Manage Reports
- Resources
- Users
- Skills
  - Skills Management
  - Career Development
  - Advanced Settings
  - Data Loader

Career Development

**My Learning Plan**  
This Table of activities shows the activity type, the course name the activity is associated with, the date, the time, the location and the room number.

Job Name: **Business Systems Consultant**

Skill Name: **APPLICATION DEVELOPMENT TOOLS** Required Proficiency: **Extensive Experience**  
Target Proficiency: **Extensive Experience** Current Proficiency: **Basic Understanding** Proficiency Gap: **2**

Include in Plan?	Course/Activity Name	Type	Comments
✓	<a href="#">cert disc</a>		
✓	<a href="#">Virtual Project Management_Scorn</a>		

OK

Home Administration Documents Messaging Site Map

Done snoozy.mul.ie.ibm.com



# Teaching Students

## Self-paced Online

- Support for SCORM and AICC
- 3<sup>rd</sup> Party or Custom Content
- Custom rollup and sequencing options

IBM WebSphere Portal - Microsoft Internet Explorer

Address: <https://snoozy.mul.ie.ibm.com/wps/myportal/tut/p>

SWU- Rollup Course Through Satisfaction Solved - Micro

Address: <https://snoozy.mul.ie.ibm.com/lms-lmm/delivery/lo/>

IBM Workplace Collaborative Learning

Bob McMullan Administrator

Course Outline

- SWU- Rollup Course Thru
- AAT\_Content Pages
- AAT Assessment**

AAT Assessment

Sample Test

Rollup Samples

Glossary Index FAQ Menu Exit Replay Next Back

Click "Next" to Continue

Five + Five = ?

0

5

10

15

Done

Course Tools

- Progress Report
- Calendar
- E-mail

Local intranet



# Teaching Students

## Classroom Training

- Enrollment Approvals
- Waitlist Management
- Coordinate all functions
  - Classrooms
  - Instructors
  - Special instructions

The screenshot shows a web browser window displaying the IBM WebSphere Portal. The page is titled 'Offerings Catalog' and shows details for a course named 'Traditional ILT Approvals'. The course details include:

- Title: Traditional ILT Approvals
- Description: face to face class with approvals
- Course Number: ILT1
- Keywords: Dan
- Language: English
- Create Date: 9/14/07
- Expiration Date: Available
- Status: Available
- Can Be Scheduled:
- Delivery Medium: Physical
- Is For Credit:
- Course Contact: wpsadmin
- Enrollment Maximum: 25
- Enrollment Minimum: 0
- Allows Self-enrollment:
- Allows Self-unenrollment:
- Requires Manager Approval:
- Requires Approver Approval:
- Approver List: Dan Spielman Instructor Dan Spielman Administrator
- Requires Student on Can Attend List:
- Student Attend List:
- Has Wait List:
- Discussion: No Discussion
- Custom Fields:

There is also a small video thumbnail showing a man in a light blue shirt and tie pointing at a chalkboard.



# Teaching Students

## Sametime 7.5 Conference Server

- Support for Virtual Classroom Sessions
- WCL manages enrollment
- Student receives iCal invitation

The screenshot shows the Sametime Meeting Room interface. The title bar reads "Sametime Meeting Room - My Meeting". Below the title bar is a menu bar with "File", "Edit", "View", "Actions", "Tools", and "Help". A toolbar contains "Stop Presenting", "Add Slides", and "Meeting Information".

The main interface is divided into several sections:

- Participants (9):** A list of participants with their names and status icons. The chair is Sam Curman. The list includes: Monifa Shani, Sam Curman, George Bandini, Kelly Hardart, Allie Singh, Betty Zechman, Jasmine Haj, Heather Reeds, and Mike Morrison.
- Video:** A section for video controls.
- Meeting Information:** A section for meeting details, including "Welcome", "Slides", "Sharing", and "Whiteboard".
- Hands Raised:** A section showing "0 Hands Raised" and a "I am active" dropdown menu.
- Web Page:** A section for "Available Web pages" with links to <http://www.renovations.com> and <http://www.renovations/legal.com>.

The main content area displays the following text:

**Lending Community Kickoff**

**June 16, 2:00 PM EST**

**Chair: Dan Misawa**



# Teaching Students

## Collaboration Tools

- Connect to QuickR or Domino Discussion DBs
- QuickR supports wikis, blogs, course attachments and assignments
- Assign to courses or scheduled offerings

The screenshot shows a web browser window displaying the IBM Lotus QuickR interface. The browser address bar shows the URL: <http://piggy.mul.ie.ibm.com/lotus/myquickr/course>. The page title is "Course Library - Chris Quickr Course - IBM Lotus QuickR".

The interface includes a navigation bar with "Back to Home" and "Help" buttons. Below this, there are tabs for "Welcome", "Course Blog", "Course Library" (which is active), "Wiki", and "Course Tasks".

The main content area is titled "Chris Quickr Course" and includes a "Find" button and a "Create" dropdown menu. Below this, there are "Views" for "Draft Views", "Shared Views", and "Personal Views", along with an "Upload" button.

A section titled "You are in Chris Quickr Course" shows a list of items. The first item is "Tutorial for Portal Factory doc", updated on 9/18/07 10:07:07 PM BST by Bob McMullan Administrator. A blue dashed circle with an arrow points to the "Upload" button with the text "Drag desktop files and folders here".

At the bottom of the page, there is a footer with navigation links: "Explore", "Home", "Learn More", "Help", "Search Center", "Tools", "Find People", "Lotus Quickr Connectors", "Work", "Create a Place", "Manage Places", and the IBM logo. The copyright notice reads: "© Copyright IBM Corporation 2007. All Rights Reserved."

This is a partial screenshot of the IBM Lotus QuickR interface, showing a search bar with a magnifying glass icon, a plus sign, a user icon, and a question mark icon. Below the search bar, there are buttons for "Log Out" and "Help". The page content below is mostly obscured, but some text is visible: "er, the type of course, the status of". At the bottom, there are buttons for "Page 1 of 1", "Type", "Status", "Discussion", and "Chat".



Let's build a smarter planet.



# Tracking Student's Progress

## Online Tracking of Learning Activities

- For interactions, WCL will track
  - Interaction ID
  - Type of Interaction
  - Expected Answer
  - Student's Answer
  - Result
- For activities, WCL will track
  - Start Date
  - Completion amount
  - Completion Date
  - Time Spent
  - Score and Pass/Fail Status
  - Objective Status and Score
  - # of Attempts
- For Courses, WCL will track
  - Start Date
  - Completion Amount
  - Completion Date
  - Time Spent
  - Score and Pass/Fail Status
  - Global Objective Status
  - # of Attempts



# Tracking Student's Progress

## Administrative Results Update

- Can update results for courses, topics and activities (SCOs)
  - Start Date
  - Completion (0-100)
  - Completion Date
  - Time Spent
  - Score
  - Pass/Fail Status
- Can update results for multiple students at any course level

IBM WebSphere Portal - Mozilla Firefox: IBM Edition

Launch Collaborative Learning > Learning Management > Course Management > Results and Courses >

Learning Management My Learning

My Dashboard  
Welcome  
Course Management  
Results and Courses  
Enrollments and Invitations  
Announcements  
Catalog Management  
Master Catalog  
Offering Catalog  
Course Upload  
Reports  
Resources  
Users  
Skills  
Advanced Settings  
Data Loader

Results And Courses

Results And Courses > Search by Course > SWU- Rollup Course Through Satisfaction Solved > Activities > AAT Content Pages

**Results And Courses**  
Search by user, course, curriculum, or certificate name to view progress and results.

Results Enrollments

Modify Results: SWU- Rollup Course Through Satisfaction Solved (swu\_sat\_solved) - AAT Content Pages [show details](#)

Modify course results for the selected users

Page 1 of 1 [First](#) | [Last](#) < [Previous](#) | [Next](#) >

Student Name	Raw Score:	Start Date:	Completion Date:	Completion Amount:	Result:	Time Spent (HH:MM:SS)
<input checked="" type="checkbox"/> Beena Balan Manager		18/09/2007	18/09/2007	100	Pass	00:30:00
<input type="checkbox"/> Beena Balan Student					Pass	00:00:00
<input type="checkbox"/> Bob McMullan Administrator					Pass	00:00:00
<input type="checkbox"/> Christopher Hagan Administrator					Pass	00:00:00
<input type="checkbox"/> Declan McCabe Administrator					Pass	00:00:00
<input type="checkbox"/> Dan Spielman Administrator					Pass	00:00:00
<input type="checkbox"/> David Tilson Administrator					Pass	00:00:00

Show at a time [10](#) | [25](#) | [50](#) | [100](#) | [Show All](#)

< [Previous](#) | [Next](#) >

[Save](#) [Cancel](#)

[Edit Group Results](#)

Home Administration Documents Messaging Site Map

Done snoozy.mul.ie.ibm.com



# Tracking Student's Progress

## IBM Data Loader

- Upload comma separated variable (CSV) files to:
  - roster into WCL
  - create, schedule classes
  - enroll and enter results
- Typical scenario
  - Classroom event is held
  - Edit results in a spreadsheet
  - Upload results to WCL

Course Number	Title	Start Date (YYYYMMDD)	End Date (YYYYMMDD)	Start Registration	End Registration	Enrollment Minimum	Enrollment Maximum	Instructor 1 (FirstName SecondName)	City	State
EE001	Electrical Safety	20071012	20071014	20070401	20071010	10	20	Dan Spielman	Dallas	TX
EE001	Electrical Safety	20071107	20071109	20070401	20071105	10	20	Dan Spielman	Honolulu	HI

Spreadsheetloader portlet

[Spreadsheet Data Loader](#) Confirmation page

File type: Result loading file ....  
File uploaded: bobResults.csv

User Id *	Course Code *	Course Title	Start Date (YYYYMMDD)	Start Time (HHMM)	Completion (0-100) *	Pass/Fail Status (pass/fail)	Score (0-100)	Completion Date	Time Spent (HHMM)
bob mcmullan_s	cl-1	LMS Quick Test	20060901	910	100	pass	95	20060910	100

When would you like e-mail notification?  
 When the operation has completed  When the operation has started and when it has completed  Never



# Reporting

- Seven Categories of Reports
  - Catalog
  - Enrollment
  - Progress
  - Resource
  - Skills Management
  - Miscellaneous
  - Compliance
- Schedule or Run Immediately
- Output in HTML, CSV, XML or Text
- Custom Reports can be created with JReports Designer

https://snoozy.mul.ie.ibm.com - Detailed Course Enrollment Summary - Mozilla Firefox: IBM Edition

Page 3 of 4

IBM Learning Management System      September 18, 2007      4:19 PM

**Enrollment Summary for classes scheduled from 2007-09-01 to 2007-10-01 at IBM**

*Classes below the Minimum Number of students*

Course	Offering Dates	Enrollment Window	Instructor / Room (Capacity)	Class Hours	Min / Max	Enrolled	Need Approval	Wait list	Percent Full
sm - sample	09/13/07		Philippe Creux Instructor Beaufort Room (0)	1.00	1- 0	0	1	0	?
Test7324726 - WaitCourse	09/17/07 09/17/07		Beaufort Room (0)	1.00	1- 1	0	0	0	.00
r1 - room	09/18/07		Beaufort Room (0)	1.00	1- 0	0	0	0	?

*Classes that have reached the Maximum number of students*

Course	Offering Dates	Enrollment Window	Instructor / Room (Capacity)	Class Hours	Min / Max	Enrolled	Need Approval	Wait list	Percent Full
h23748 - JavaCourse001	09/14/07 09/14/07		Anne OConnor Instructor Beaufort Room (0)	1.00	1- 0	14	0	0	∞
sc - shedule	09/14/07		Anne OConnor Instructor Beaufort Room (0)	1.00	1- 0	2	0	0	∞
CC - Cat course	09/13/07		Philippe Creux Instructor Beaufort Room (0)	1.00	1- 0	1	0	0	∞
32423 - aaa	09/28/07		Jose Serra Administrator	1.00	1- 1	3	0	0	300.00

Done      snoozy.mul.ie.ibm.com



# Reporting

https://snoozy.mul.ie.ibm.com - Certificate Progress by User - Mozilla Firefox: IBM Edition

IBM Learning Management System September 18, 2007 4:35 PM

## Certificate Progress by User

**65855576 - Kats Cert**

Enrolled	Initially Certified	Renewed	Expired	In Progress	Overdue	Completion By Percentage			% Overdue
						Certified	In Progress	Expired	
8	4	0	0	4	2	50%	50%	0%	25%

User Name	Due Date	Progress	Awarded On	Expires On	Renewal Started On
Madire Student, Praveen		Certified	09/19/07	09/21/07	
Murray Administrator, Kathleen		Certified	09/17/07	09/19/07	
Murray Student, Kathleen		Certified	09/18/07	09/20/07	
Sohoni Student, Radhika		Certified	09/19/07	09/21/07	
Madire Administrator, Praveen	09/19/07	In Progress			
Serra Administrator, Jose	09/19/07	In Progress			
OConnor Student, Anne	09/16/07	InProg / Overdue			
admin, wps	09/16/07	InProg / Overdue			

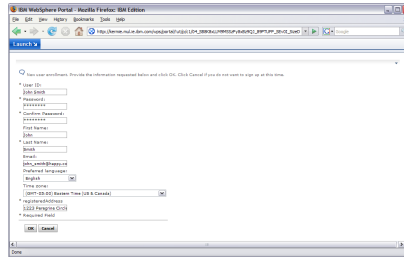
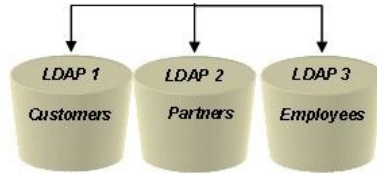
Done snoozy.mul.ie.ibm.com



# Managing Users

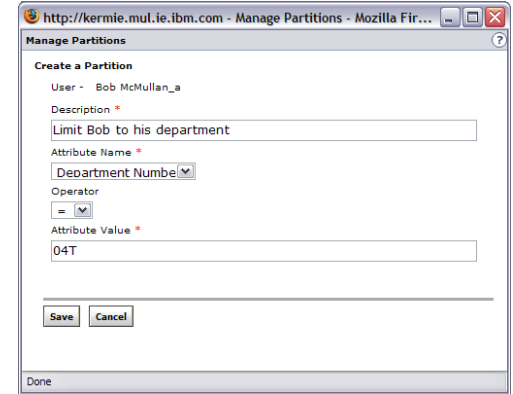
## User Authentication and Authorization

- LDAP V3
- Supports Multiple Realms
- Supports Tivoli Access Manager and other authentication systems
- Option for self-rostering



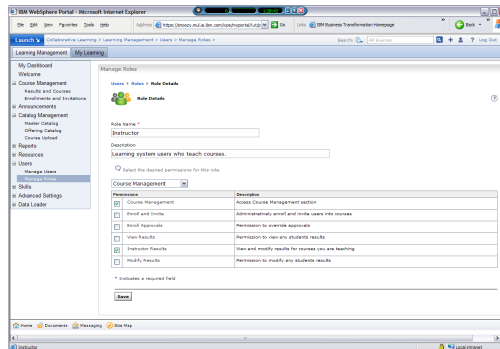
## User Partitioning

- Who can one enroll, update progress and report on?
- Managed through Partitions
- Maps an individual's access by LDAP attributes



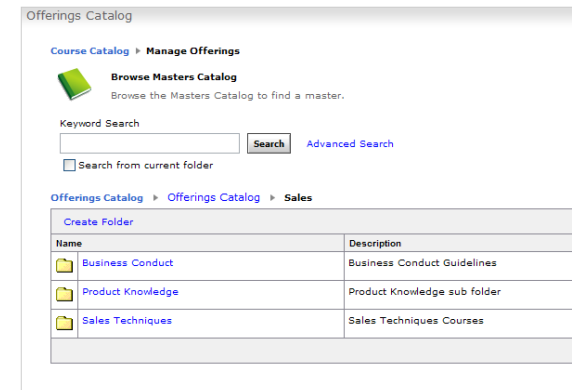
## Access to Application Features

- Portal Interface – Users access to portlets can be tied to their LDAP Attributes or LDAP Groups
- Learning Application functions – Ability to successfully conduct a transaction is controlled by Roles



## Access to Catalog Folders

- Read, Write, Manage
- Option to inherit Access to sub-folders

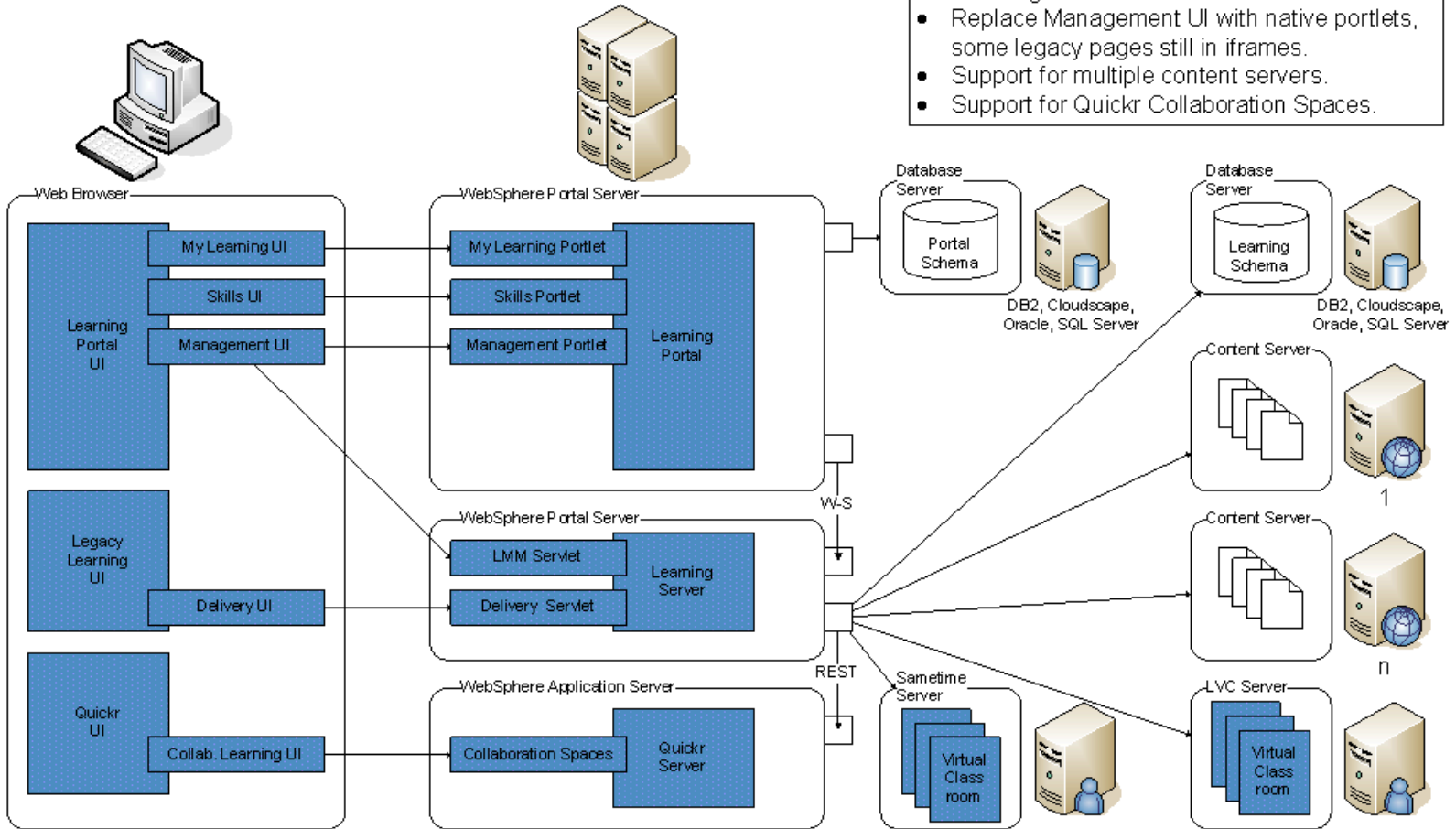





# Architecture

## Learning System Architecture: WCL 2.7

- LMM and DS are combined into a separate Learning Server.
- Replace Management UI with native portlets, some legacy pages still in iframes.
- Support for multiple content servers.
- Support for Quickr Collaboration Spaces.



 Let's build a smarter planet.



Thank you!