



Læringsplattform (LMS)

Workplace Collaborative Learning (WCL)

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Agenda

- ✓ Læringsformer og trender
- ✓ LMS 2.0
- ✓ Kunnskapsforvaltning
- ✓ E-læring/I-læring
- ✓ WCL 2.7



Opplæring/kurs

Klasserom

E-læring

Integrert læring (i-læring)

Collaborative Learning



Hvorfor I-læring/LMS?

- Effektiv kompetansehevning
- Enkel og fleksibelt for deltagere
- Motiverende
- Velferdstiltak
- Oversikt over internkompetanse
- Oppfølging av medarbeidere
- Planmessig
- Statistikk/sporing
- Sikre riktig kompetanse



Moderne læringsløsninger

- Kombinasjon av nettbasert og tradisjonell læring
- Ikke e-læring, men integrert læring (i-læring)
- Støtter en læringsprosess som går utover kursrommet og inn på kontoret
- Støtter kunnskapsdeling og erfaringsoverføring
- Kan tilpasses alle organisasjoners behov – enkle og komplekse
- Moderne teknologi
- SCORM og AICC gir kompatibilitet med portaler og ”fri flyt” av innhold

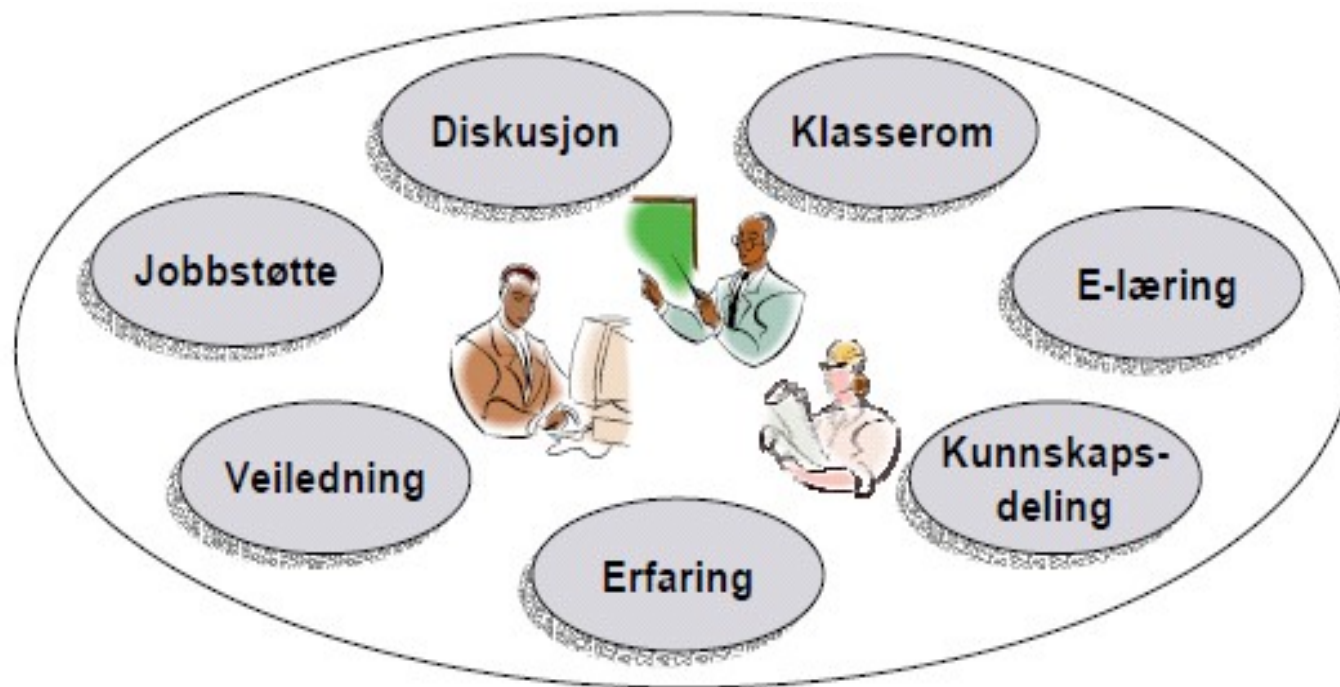


LMS 2.0 funksjonalitet

- Synkron og asynkron samhandling
- Brukerprofiler med kunnskap og erfaring
- Sosiale verktøy (blogg, wiki, forum)
- Tilrettlegging av innhold
- Erfaringsarkiv
- Internt og eksternt søk
- Personalisering
- Brukerklassifisering av innhold
- Verktøy for karriereplanlegging



Integrert læring (i-læring)





Kunnskapsforvaltning

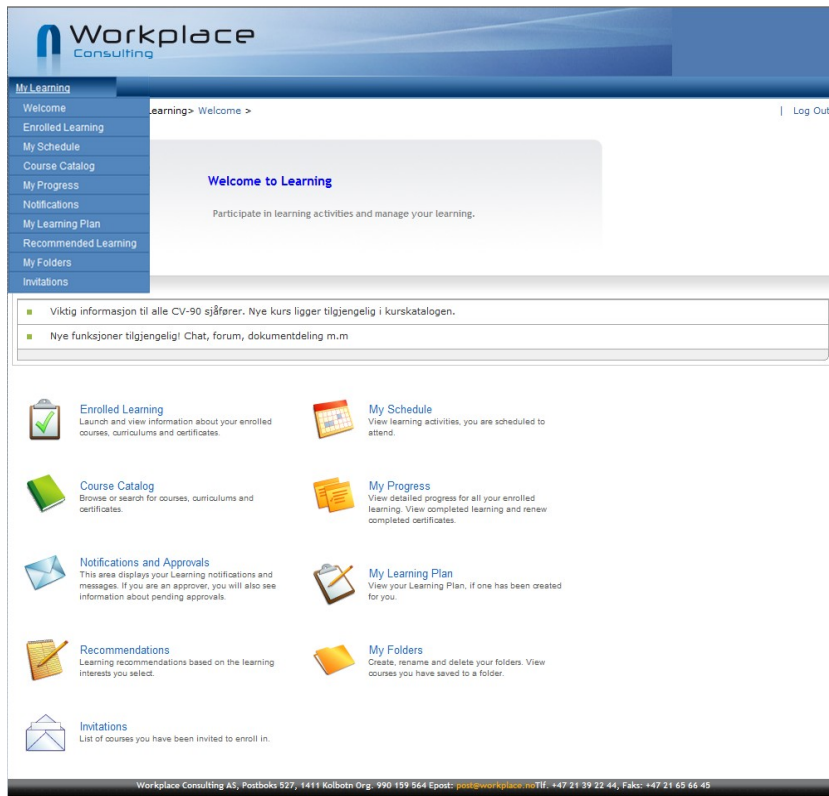
Utvikle/forsterke en kunnskapskultur

Øke verdien av bedriftens kompetanse

- Øke verdien av forretningskritiske systemer og IT-infrastruktur
- IT-verktøy for å kartlegge kompetanse, gi innputt til kompetanseplaner, effektivisere gjennomføring av kompetansetiltak og evaluere underveis



IBM Workplace Collaborative Learning (WCL)



Workplace Consulting

My Learning > Welcome > | Log Out

Welcome to Learning

Participate in learning activities and manage your learning.

- Viktig informasjon til alle CV-90 sjåfører. Nye kurs ligger tilgjengelig i kurskatalogen.
- Nye funksjoner tilgjengelig! Chat, forum, dokumentdeling m.m

Enrolled Learning
Launch and view information about your enrolled courses, curriculums and certificates.

Course Catalog
Browse or search for courses, curriculums and certificates.

Notifications and Approvals
This area displays your Learning notifications and messages. If you are an approver, you will also see information about pending approvals.

Recommendations
Learning recommendations based on the learning interests you select.

Invitations
List of courses you have been invited to enroll in.

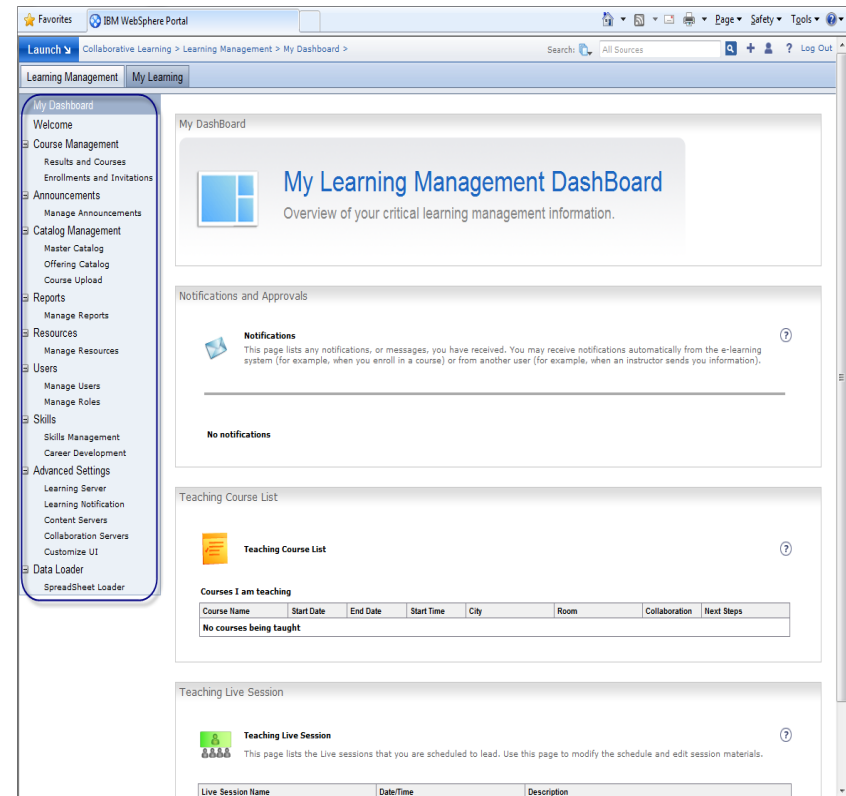
My Schedule
View learning activities, you are scheduled to attend.

My Progress
View detailed progress for all your enrolled learning. View completed learning and renew completed certificates.

My Learning Plan
View your Learning Plan. If one has been created for you.

My Folders
Create, rename and delete your folders. View courses you have saved to a folder.

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IBM WebSphere Portal

Collaborative Learning > Learning Management > My Dashboard

Search: All Sources

Launch > My Learning

My Dashboard

My Learning Management Dashboard
Overview of your critical learning management information.

Notifications and Approvals

Notifications
This page lists any notifications, or messages, you have received. You may receive notifications automatically from the e-learning system (for example, when you enroll in a course) or from another user (for example, when an instructor sends you information).

No notifications

Teaching Course List

Courses I am teaching

Course Name	Start Date	End Date	Start Time	City	Room	Collaboration	Next Steps
No courses being taught							

Teaching Live Session

Teaching Live Session
This page lists the Live sessions that you are scheduled to lead. Use this page to modify the schedule and edit session materials.

Live Session Name	Date/Time	Description



IBM Workplace Collaborative Learning

Samarbeid er en stor del av IBM WCL

Integrert i løsningen finner vi

- Lotus Quickr

- Dokumentdeling
- Diskusjonsforum
- Blog
- Wiki

- Lotus Sametime

- Chat
- Online møter
- Dele lyd, video, skrivebord



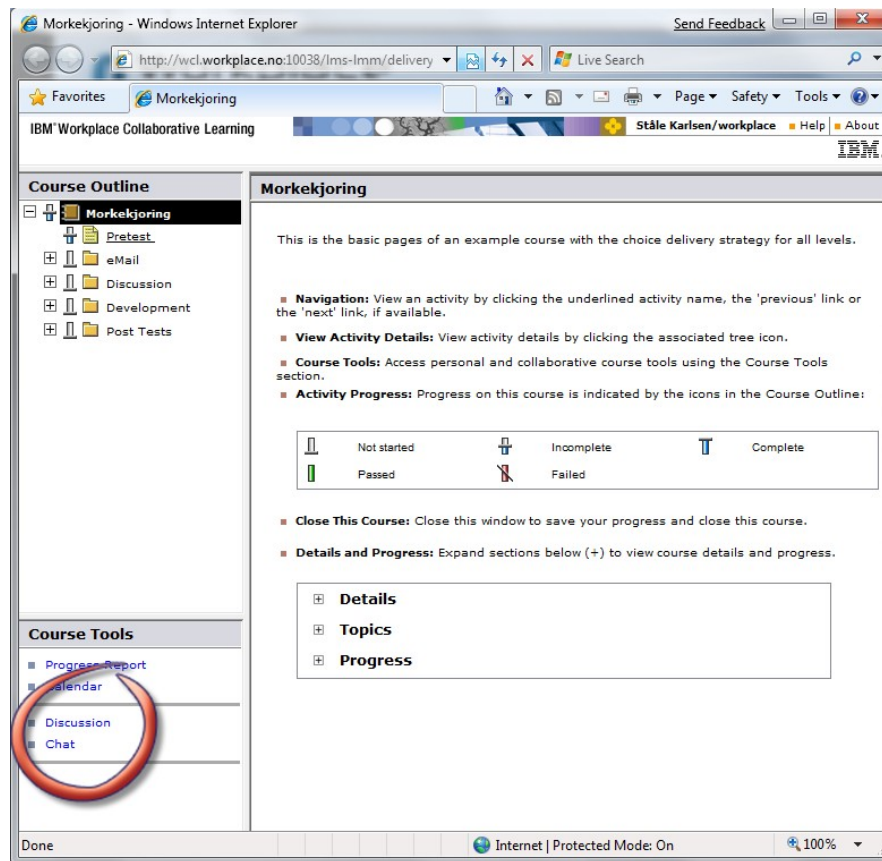
IBM Workplace Collaborative Learning

Action	Name	Number	Type	Status	Discussion	Chat
Launch	Mørkekjøring	EX001				

Page 1 of 1

Gjennomføre kurs:

Ståle ønsker nå å fortsette mørkekjøringskurset han er påmeldt



- Ved å klikke «Launch» starter kurset i et nytt vindu

- Kurset er konfigurert til å bruke diskusjon og chat

- Nede i venstre hjørne finner vi linker til «discussion» og «chat»

Discussion = Lotus Quickr

Chat = Lotus Sametime

(alle systemer er integrert med samme LDAP og Single Sign On (SSO))



IBM Workplace Collaborative Learning

The screenshot shows a web interface for a course titled 'Morkekjorinjg'. At the top, there is a yellow header with the Lotus Quickr logo, a search bar containing 'Morkekjorinjg', and a user profile for 'Ståle Karlsen'. Below the header is a navigation bar with 'Back to Home' and 'Help' buttons. The main content area features a 'Welcome' message and a navigation menu with 'Course Blog', 'Course Library', 'Wiki', and 'Course Tasks'. The welcome text reads: 'Welcome to your new course collaboration space! You're at the Welcome page which is what others will see when they first arrive. As the instructor, you'll want to edit this text to create a message that is specific for your course. Of course you can say anything that you want, but you might want to provide essential information, such as: The purpose and goals of our course are... Use the course library to store and share course materials. Use the blog to discuss course topics. Let's work collaboratively in the wiki to create course documents about work on shared assignments...'. Below the text is a photograph of a military tank in a forest.

Lotus Quickr (Discussion):

Felles område for alle kursdeltagere. Glimrende for kommunikasjon mellom instruktør og studenter

- Kursinformasjon
- Mål
- Kursmateriale
- Dokumentdeling
- Blog
- Kunngjøringer
- Wiki



IBM Workplace Collaborative Learning

Chat Tool Bar - Google Chrome
http://wcl.workplace.no:10038/lms-lmm/delivery/chat.do
Course Title: Morkekjoring
People active: 2
Participant List Join Course Chat
Status:

Morkekjoring...
http://wclst.workplace.no/sametime/
People Here
Ståle Karlsen
wcladmin

Morkekjoring - Google Chrome
Send Feedback
http://wclst.workplace.no/sametime/stlinks/en/chatWindow.html?winType=PLACE_CHAT&urlMain=http://wclst.v
wcladmin hello
wcladmin Ready?
Type your text
Send Leave
Ståle Karlsen joined the chat.

Lotus Sametime (chat):

Chat med andre møtedeltagere

- Korte (ofte uformell sjargong) tekstmeldinger for rask avklaring
- E-post benyttes i mer formell sammenheng og der en ikke har behov for å vite at mottaker er tilgjengelig og kan svare ASAP
- En har behov for rask avklaring (og kan logges som grunnlag)



Karriereplanlegger (scenarier)

Brukerscenario 1: **Ståle Karlsen**, CV-90 sjåfør i Forsvaret

Brukerscenario 2: **Coursemanager**, kurs administrator

I dette scenarioet vil vi se hvordan Ståle Karlsen benytter IBM WCL som et verktøy for å gjennomføre de krav som stilles til Forsvarets CV-90 sjåførere.

I tillegg vil vi se på hvordan en kurs administrator kan sette opp ulike jobber, med tilhørende ferdigheter. Ferdigheter knyttes opp i mot kurs.

Verktøyet støtter norsk og engelsk (følger språkinstillingen i browser)



Karriereplanlegger (scenarier): Ståle Karlsen

Workplace Consulting

My Learning

Welcome | Log Out

Enrolled Learning

My Schedule

Course Catalog

My Progress

Notifications

My Learning Plan

Recommended Learning

My Folders

Invitations

Welcome to Learning

Participate in learning activities and manage your learning.

- Viktig informasjon til alle CV-90 sjåførar. Nye kurs ligger tilgjengelig i kurskatalogen.
- Nye funksjoner tilgjengelig! Chat, forum, dokumentdeling m.m

Enrolled Learning
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Ståle er nå logget inn

Forsiden viser:

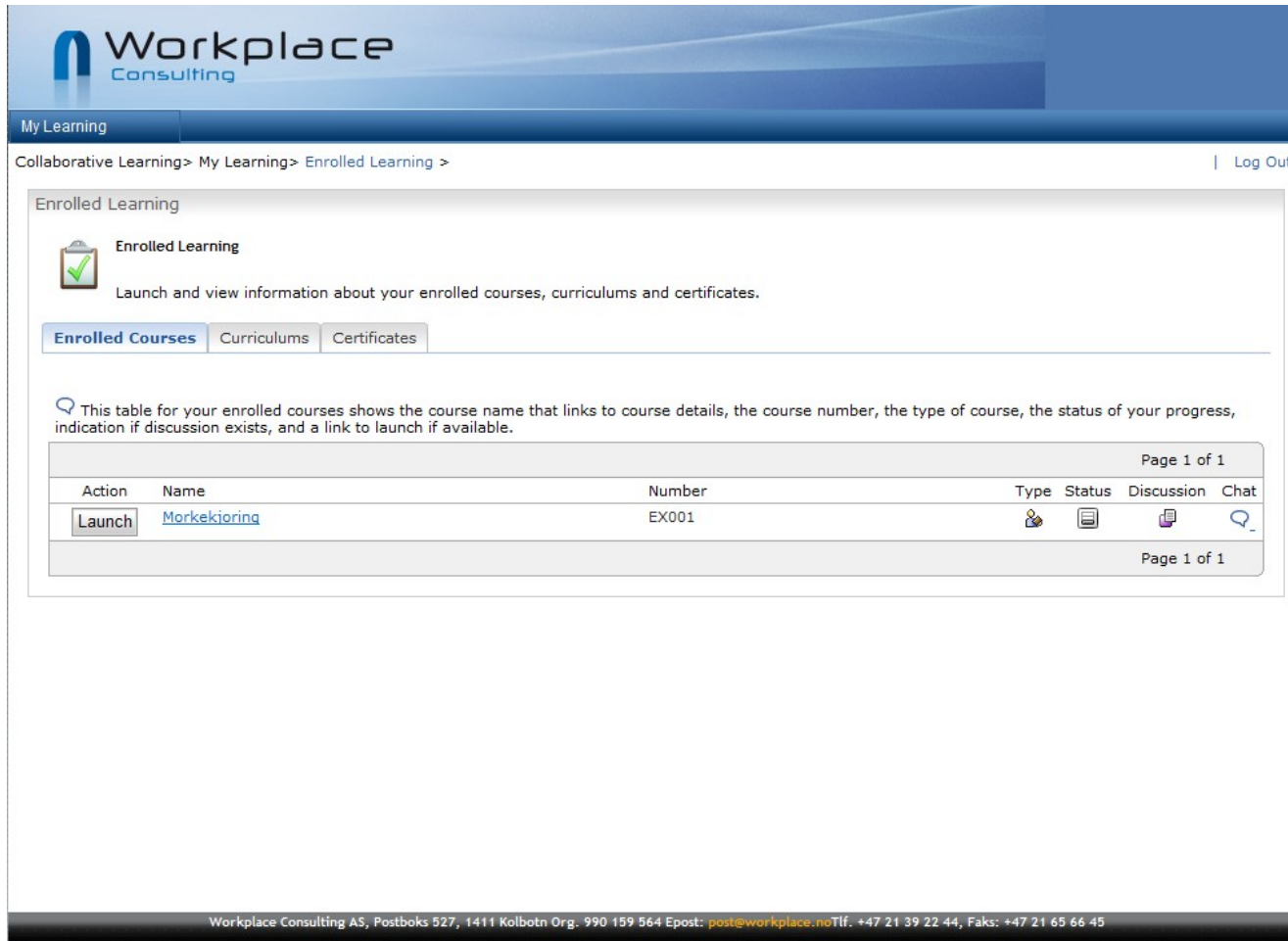
- Enkelt grensesnitt
- Annonseringer fra instruktører eller administratorer
- Snarveier til alle relevante funksjoner

- Påmeldt opplæring
- Kurskatalogen
- Fremgang
- Invitasjoner
- m.m

- Eventuelt benytter man menyen øverst i venstre hjørne



Karriereplanlegger (scenarier): Ståle Karlsen




Workplace Consulting

My Learning





Collaborative Learning > My Learning > Enrolled Learning > | Log Out

Enrolled Learning

 **Enrolled Learning**
Launch and view information about your enrolled courses, curriculums and certificates.

Enrolled Courses | Curriculums | Certificates

This table for your enrolled courses shows the course name that links to course details, the course number, the type of course, the status of your progress, indication if discussion exists, and a link to launch if available.

Action	Name	Number	Type	Status	Discussion	Chat
Launch	Morkekjoring	EX001				

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Enrolled Learning

Launch and view information about your enrolled courses, curriculums and certificates.

-Start og vis informasjon om kurs, pensum og sertifikater du er påmeldt.

- Tabellen viser kurs du er påmeldt, viser kursnavnet som er koblet til kursopplysninger, kursnummeret, kurstypen, fremdriftsstatus, angivelse om det finnes en diskusjon, og en eventuell oppstartskobling.



Karriereplanlegger (scenarier): Ståle Karlsen

The screenshot shows the Workplace Consulting Course Catalog interface. At the top left is the Workplace Consulting logo. Below it is a navigation bar with 'My Learning' and 'Collaborative Learning > My Learning > Course Catalog >'. A 'Log Out' link is on the right. The main content area is titled 'Course Catalog' and contains a search box with 'All Attributes' selected and 'CV-90' entered. A 'Search' button and a link to 'Advanced Search' are present. On the left, there is a 'Browse Catalog' section with a list of folders: FFU, Hæren, IT, Luftforsvaret, Mil kurs, Open Test, and Velferdskurs. The 'Courses Found' section shows two results: 'Introduksjonskurs - nyansatte : newemp' and 'Lotus Notes 7.0 User Tutorial : JSFP'. Each result includes a description, education type, and language, along with a 'View Details' link. The page is on 'Page 1 of 1'.

Course Catalog
Browse or search for courses, curriculums and certificates.

- Bla gjennom eller søk etter kurs, pensum og sertifikater.

- Kurstype

- Påmelding

Hva som er tilgjengelig styres av kurs manager.



Karriereplanlegger (scenarier): Ståle Karlsen

My Learning

Collaborative Learning > My Learning > My Learning Plan > | Log Out

My Learning Plan

My Learning Plan : Ståle Karlsen

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: **CV-90 sjåfør**

Skill Name: **Mørkekjøring** Required Proficiency: **Erfaren**
Target Proficiency: **Erfaren** Current Proficiency: **Nybegynner** Proficiency Gap: **1**

Course/Activity Name	Type	Comments	Status	Start Date	Completion Date	Score
Mørkekjøring				Mar 23, 2009		



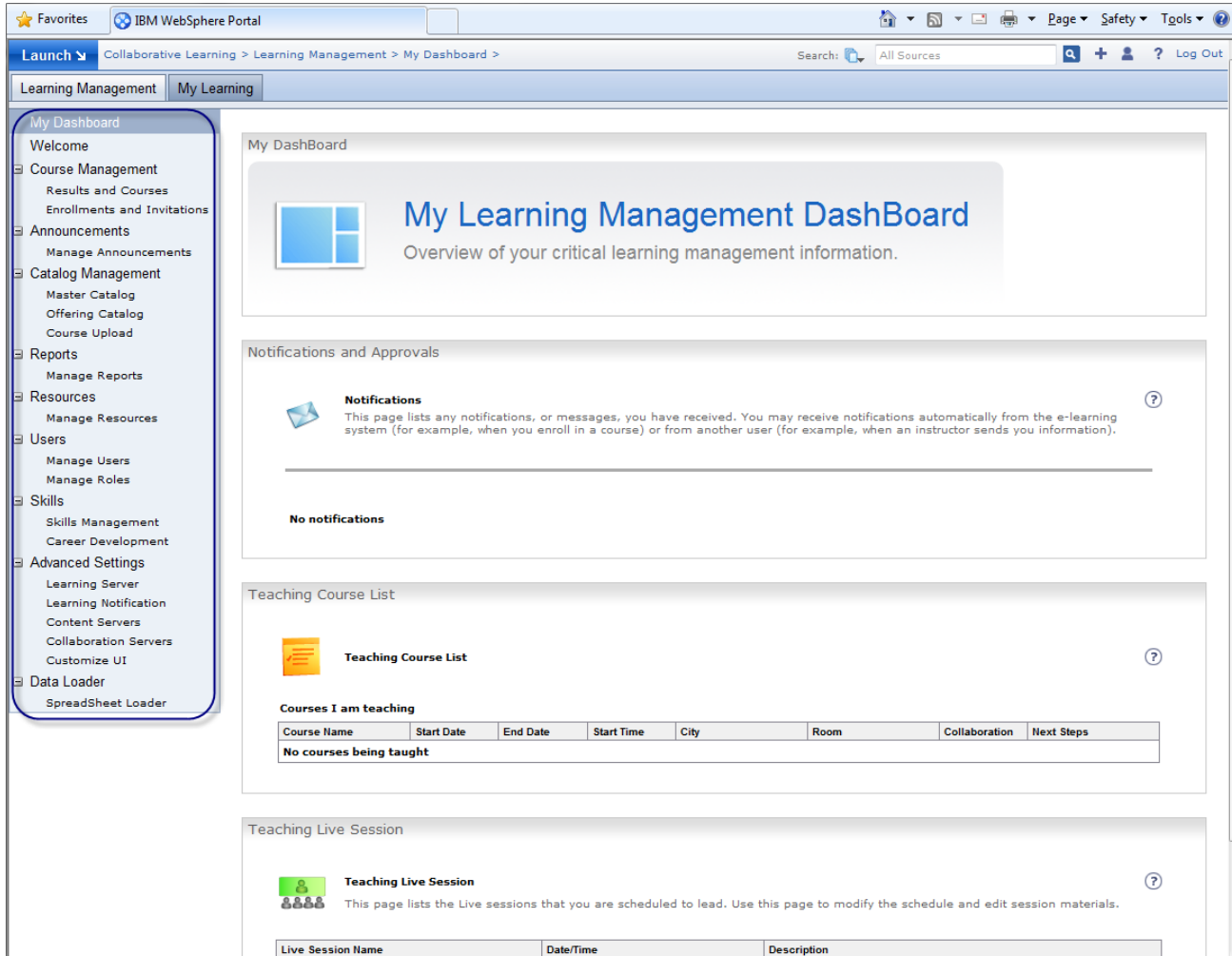
My Learning Plan

View your Learning Plan, if one has been created for you.

- Viser opplæringsplan hvis det er opprettet en for deg
- Vi kan se at ferdigheten «mørkekjøring» er knyttet til jobben «CV-90 sjåfør»
- Ståle vil forbli nybegynner inntil kurset er gjennomført.
- Ved fullført kurs, vil Ståle være erfaren i denne ferdigheten.



Karriereplanlegger (scenarier): Coursemanager



The screenshot shows the Course Manager interface within an IBM WebSphere Portal. The main content area is titled "My Learning Management Dashboard" and includes sections for "Notifications and Approvals", "Teaching Course List", and "Teaching Live Session". A left-hand navigation menu is visible, listing various administrative functions.

My Learning Management Dashboard
Overview of your critical learning management information.

Notifications and Approvals

Notifications
This page lists any notifications, or messages, you have received. You may receive notifications automatically from the e-learning system (for example, when you enroll in a course) or from another user (for example, when an instructor sends you information).

No notifications

Teaching Course List

Courses I am teaching

Course Name	Start Date	End Date	Start Time	City	Room	Collaboration	Next Steps
No courses being taught							

Teaching Live Session

This page lists the Live sessions that you are scheduled to lead. Use this page to modify the schedule and edit session materials.

Live Session Name	Date/Time	Description
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Course Manager

- En bruker administrative rettigheter kan administrere::

- Kurs
- Annonseringer
- Kurskatalogen
- Rapporter
- Resseruser
- Brukere
- Ferdigheter
- Avanserte instillinger
- Datainnlaster



Karriereplanlegger (scenarier): Coursemanager

Skills Management

Skills Dictionary Courses

You can add a job or select a job to work on. Once you have selected a job, then you can select a set of skills to add to the job.

View: Jobs

Find Job... * New Job...

Skills Management

Find Jobs

You can search for jobs by entering search criteria in one or more fields. Search criteria may include the asterisk (*) wildcard. Select a job from the search result, and then click OK to display your selection on the page from which you initiated the search. Click Cancel to leave the page without saving your selection.

Job name: * Job description:

Job ID:

Search

2 jobs found in Skills Dictionary for: *

Select	ID	Name	Description
<input checked="" type="radio"/>	CV90	CV-90 sjåfør	
<input type="radio"/>	F35JSFPilot	F35-JSF Pilot	F35-JSF Pilot

Page 1 of 1

OK Cancel

Ferdigheter (Skills)

- Bruk flippen Ferdighetsordliste (Skills Dictionary) til å opprette og administrere jobber, ferdigheter, rangeringsskalaer og ferdighetsnivåer og knytt dem til hverandre. Bruk flippen Kurs til å knytte kurs til oppføringer i din ferdighetsordliste.

- Ved å klikke på «Find Job» søker man i eksisterende jobber

- Velg en jobb fra søkeresultatene og klikk på OK for å vise utvalget på siden du søkte fra.



Karriereplanlegger (scenarier): Coursemanager

Skills Management

Skills Dictionary Courses

🗨 You can add a job or select a job to work on. Once you have selected a job, then you can select a set of skills to add to the job.

View: Jobs

Job name:

Job ID:

Job description:

Associated Skills

Name	ID	Vendor ID	Description	Rating Scale	Proficiency Level Description	Required Rating	Weight	Remove
Mørkeljøring	MK	Internal	Mørkeljøring CV-90	Skill Level	<input type="text"/>	Erfaren	<input type="text" value="1"/>	<input type="button" value="-"/>
Starte CV-90	STRTCV90	Internal	Hvordan starte en CV-90	Skill Level	<input type="text"/>	Nybegynner	<input type="text" value="1"/>	<input type="button" value="-"/>
Sikkerhetsrutiner	SikkerHet	Internal		Skill Level	<input type="text"/>	Erfaren	<input type="text" value="1"/>	<input type="button" value="-"/>

Ferdigheter (Skills)

- Du kan legge til eller velge en jobb som du skal arbeide med. Når du har valgt en jobb, kan du velge et sett med ferdigheter som skal legges til for jobben.

- Her kan vi se at jobben «CV-90 Sjøfører» er satt opp med tre ferdigheter.

- Hver ferdighet kan knyttes opp imot et kurs. (Se neste slide)



Karriereplanlegger (scenarier): Coursemanager

Skills Management

Find Skills

Q You can search for skills by entering search criteria in one or more fields. Search criteria may include the asterisk (*) wildcard. Select one or more skills from the search result, and then click OK to display your selection on the page from which you initiated the search. Click Cancel to leave the page without saving your selection.

Search all: Skill description:

Skill name: Vendor ID: Skill ID:

6 skills found in Skills Dictionary for: *

Select	Skill ID	Name	Vendor ID	Description
<input type="radio"/>	GK	Glattgjøring	Internal	
<input checked="" type="radio"/>	MK	Mørkekjøring	Internal	Mørkekjøring CV-90
<input type="radio"/>	SikkerHet	Sikkerhetsrutiner	Internal	
<input type="radio"/>	STRTCV90	Starte CV-90	Internal	Hvordan starte en CV-90
<input type="radio"/>	SSCV90	Starte og stoppe	Internal	Starte og stoppe en CV-90
<input type="radio"/>	TO	Take off	Internal	Has the skill to take off with a F35-JSF

Page 1 of 1

Kurs (Courses)

- Bruk visningslisten til å velge mellom ferdigheter der du kan knytte kurs til ferdigheter for utvalgte ferdighetsnivåer, og vise alle kursene for ferdighetene i en jobb.

- Her kan vi se at ferdigheten «mørkekjøring» ligger i listen

- Hver ferdighet kan knyttes opp imot et kurs. (Se neste slide)



Karriereplanlegger (scenarier): Coursemanager

Skills Management

Skills Dictionary Courses

Use the view list to select between Skills where you can associate courses with skills for selected proficiency levels, and viewing all the courses for the skills within a job.

View courses associated with: A Skill

Find Skill...

Skill Name: Mørkekjøring
Skill ID: MK
Vendor ID:
Description: Mørkekjøring CV-90

+ Add Courses...

1-Nybegynner

Course	Number	Required?	Remove Course from Skill Level
There are no entries to display.			

2-Erfaren

Course	Number	Required?	Remove Course from Skill Level
Mørkekjøring	EX001	Recommend	-

3-Ekspert

Course	Number	Required?	Remove Course from Skill Level
There are no entries to display.			

Ok Cancel

Kurs (Courses)

- Bruk visningslisten til å velge mellom ferdigheter der du kan knytte kurs til ferdigheter for utvalgte ferdighetsnivåer, og vise alle kursene for ferdighetene i en jobb.

- Her kan vi se at kurset «mørkekjøring» er lagt til under nivået «erfaren»



Karriereplanlegger (scenarier): Coursemanager

Career Development

- Klikk på Finn ansatte hvis du skal søke etter ansatte, velge dem og vise dem på denne siden.

- Når du velger ansatte på denne siden, kan du klikke på Endre jobber og ferdigheter for å tildele jobber og ferdigheter til de ansatte, eller du kan klikke på Fjern fra liste hvis du vil fjerne ansatte fra listen.



- Bruk ikonene for opplæringsplan hvis du vil vise eller opprette en opplæringsplan for en ansatt.

Career Development

Jobs and Skills


Click Find Employees to search for employee records, select them, and display them on this page. When you select employees on this page, you can click Modify Jobs and Skills to assign them jobs and skills or click Remove from list to remove them from the list. The Learning Plan icons let you view or create a learning plan for an employee.

Employees

Page 1 of 1				
<input type="checkbox"/>	Name	Jobs	Additional Skills	Learning Plan
<input type="checkbox"/>	Ståle Karlsen	CV-90 sjåfør		 
Page 1 of 1				




Career Development

 **My Learning Plan : Ståle Karlsen**

This Table of activities shows the activity type, the course name the activity is as...

Job Name: CV-90 sjåfør

Skill Name: **Mørkekjøring** Required Proficiency: **Erfaren**
 Target Proficiency: **Erfaren** Current Proficiency: **Nybegynner** Proficiency Gap: **1**

Include in Plan?	Course/Activity Name	Type	Comments
<input checked="" type="checkbox"/>	Mørkekjøring		



Karriereplanlegger (scenarier): Coursemanager

Career Development

Modify Jobs and Skills

Select a job from the Job Name list or click Add Jobs to search for and select a job to assign to the currently selected employee. Click Find Skills to search for and select additional skills to assign the employee. You can cancel the current job assignment by clicking Remove Job and cancel an additional skill assignment by clicking the remove icon next to that skill. Click OK to save your work. Click Cancel to discard it.

Employee Name: Ståle Karlsen

Job Name: CV-90 sjafer

Job ID: CV90
Description of Job:

Associated Skills

Skill	ID	Description
Mørkekjøring	MK	Mørkekjøring CV-90
Sikkerhetsrutiner	SikkerHet	
Starte CV-90	STRTCV90	Hvordan starte en CV-90

Page 1 of 1

Additional Skills

Skill	ID	Description	
There are no entries to display.			

Remove from List

Career Development

- Ved å velge en ansatt og klikke på «modify jobs and skills» vises følgende oversikt.

- Velg en jobb fra listen Jobbnavn eller klikk på Legg til jobber for å søke etter og velge en jobb som skal tildeles til den ansatte som er valgt.

- Klikk på Finn ferdigheter hvis du skal søke etter og velge flere ferdigheter som skal tildeles til den ansatte.

- Du kan avbryte den gjeldende jobbtildelingen ved å klikke på Fjern jobb, eller du kan avbryte tildelingen av flere ferdigheter ved å klikke på fjerneikonet ved siden av ferdigheten.



Karriereplanlegger (scenarier): Coursemanager

Manage Reports

Manage Reports
Run a report or define a schedule for automatic report generation.

- Run a Report** Generate one or more predefined reports detailing information about users and courses.
- Manage Scheduled Reports** Establish schedules for selected reports to run automatically.

Name	Description
Activity Report	Display the list of classroom courses and learning events available over a specific period of time for a specified location.
Available Certificates	Display the list of all available certificates.
Certificate List	Display the list of certificates with all certified users.
Certificate Expiration	Display the list of student certificates ordered by expiration date.
Course Detail	Display the properties of a single course and all of its topics, activities, and objectives.
Available Curricula	Display the list of all curriculums.

Rapportering

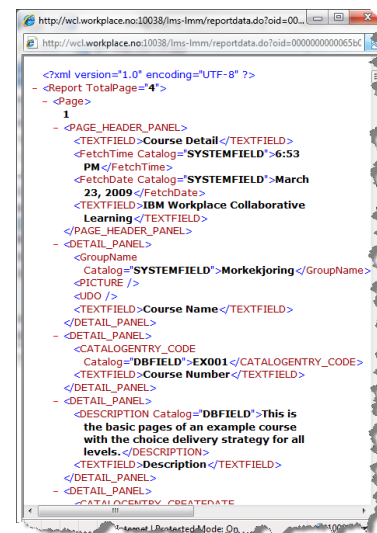
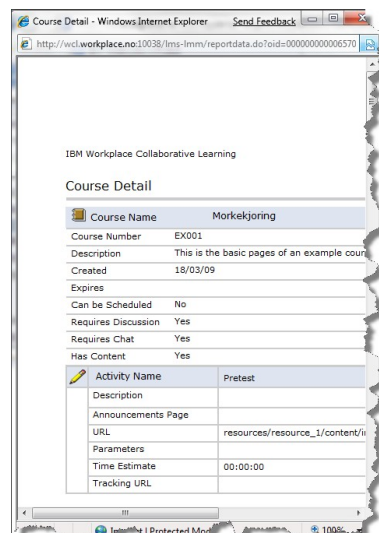
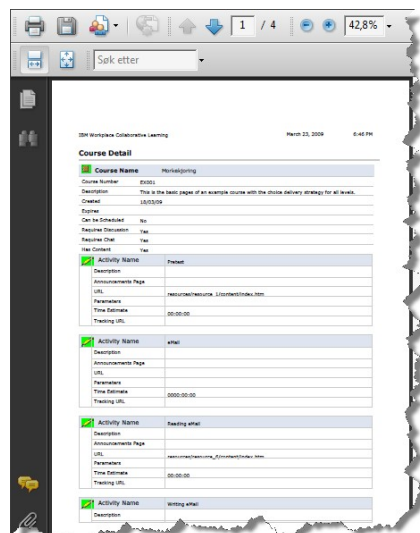
- Du kan kjøre en rapport eller administrere planlagte rapporter som dekker sentrale områder og måleverdier. De viktigste rapportkategoriene er Katalog, Påmelding, Fremdrift, Ressurser og Ferdighetsadministrasjon.

- Planlagte rapporter er en effektiv måte å holde oversikt over opplæringsaktivitetene. Det gir deg også mulighet til å kjøre rapporter når systembruken er på sitt laveste, slik at maskinressursene utnyttes best mulig.

- Vi velger å kjøre en «Course Detail» rapport på vårt «Mørkekjøringskurs»

- Tilgjengelige formater (Output):

- PDF
- HTML
- XML
- CSV
- Text






Karriereplanlegger (scenarier): Coursemanager

Spreadsheetloader portlet

Spreadsheet Data Loader

 **Spreadsheet Data Loader**

You can use a spreadsheet to update Learning data. First, create the spreadsheet with your data (you may use the links to download spreadsheet (.csv) templates). Then, export the spreadsheet from your favorite editor as a .csv file, browse to find the file on your desktop, select the type of data to be updated and click the Upload button.

Spreadsheet (.csv)

Type :

Spreadsheet Templates

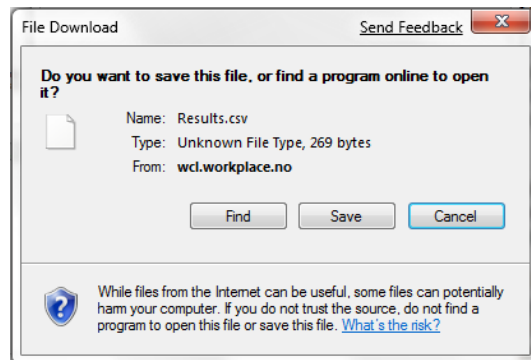
- [Results.csv](#)
- [EnrollStudents.csv](#)
- [Masters.csv](#)
- [Offerings.csv](#)
- [Courses.csv](#)
- [Rosters.csv](#)

Resultater (import, eksport)

- Du kan bruke et regneark til å oppdatere opplæringsdata for resultater, påmeldinger, tilbud, mastere, ressurser og registrering.

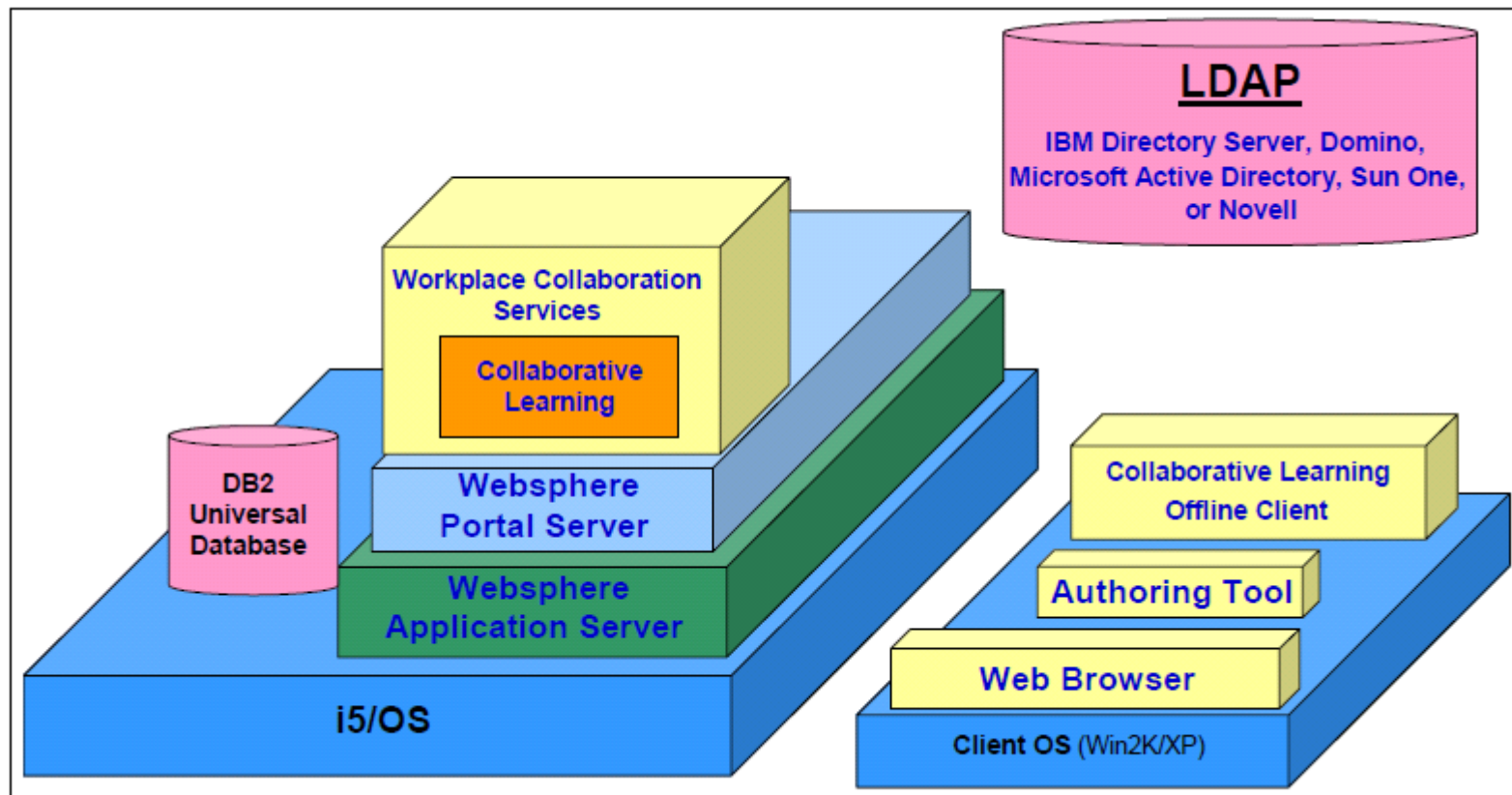
- Dette er en effektiv metode for å oppdatere store mengder med data og overføre informasjon raskt fra andre applikasjoner

- Du kan nå oppdatere data samlet direkte gjennom Learning Management-systemet. Du velger bare et klargjort regneark (lagret som en .csv-fil) direkte fra skrivebordet, indikerer hvilken type oppdatering det er, og klikker på "Upload Spreadsheet"





Infrastruktur





LMS 1.0 2002

- Core LMS functionality
- Portal based UI
- Skills Management
- Learning Plans
- Integration with WCS Team Spaces for team collaboration

Collaborative Learning 2007

- Portal 6.0.1
- Admin and Student Usability enhancements
- Admin and Student UI refresh
- Performance and scalability improvements
- Integration with Portal Search
- Integration with Sametime web conference
- Integration with Quickr
- Support for Window/DB2
- Migration

Collaborative Learning 2009

▪ Platform and Database Support

- Unix
- Linux
- Aix
- Solaris
- HP Itanium
- MS SQL
- Oracle
- iSeries

▪ Migration Tools

LMS 1.0.5 -> Collaborative Learning

WCL 2.6.1 -> Collaborative Learning