LABWARE
Results Count
LABWARE 2012
LABWARE UNIVERSITY
CUSTOMER EDUCATION CONFERENCE NEW ORLEANS
Laboratory Training Management Using LIMS
Enterprise Laboratory Platform
lims eln

Introduction

- **Tyson Foods, Inc.**
  - Food Safety & Laboratory Services Network
    - 17 Corporate/Regional/On-site Labs with ~240 users
  - Quality Assurance + Other with ~600 users
  - LabWare LIMS implemented in 1998
  - English, Spanish and Portuguese languages supported
  - Served via Windows Terminal Server

The Problem

- **Corporate Lab (Springdale, AR)**
  - 90+ Team Members
  - 305 Individual training topics
    - Chemical
    - Microbiological
    - ISO 9001 (TUV:SUD)
    - ISO 17025 + AOAC (A2LA)
    - EHS and Regulatory Compliance
  - One HUGE MS Excel file and hours of management time used
  - Prone to errors and procrastination

Key Objectives

- **Improve recordkeeping**
  - ISO 17025 and AOAC Requirements
  - Timeliness, accuracy, and reduce management time required.
- **Electronic records only**
  - Electronic signature
  - remove paper

Key Objectives Continued…

- **Segment and categorize**
  - Generate reports for routine management, training compliance, audits, and data analysis on demand
  - Training requirements/needs highly visible to individual Team Members to support self management of training
    - Re-enforced by performance reviews

The Solution

- **Utilize LabWare LIMS**
  - For team members, no new applications to learn
  - For admin, no additional software or cost accrued
- **Use existing LabWare functionality with user dialogs and user menus to create a Training Manager.**
  - 100% managed by lab staff

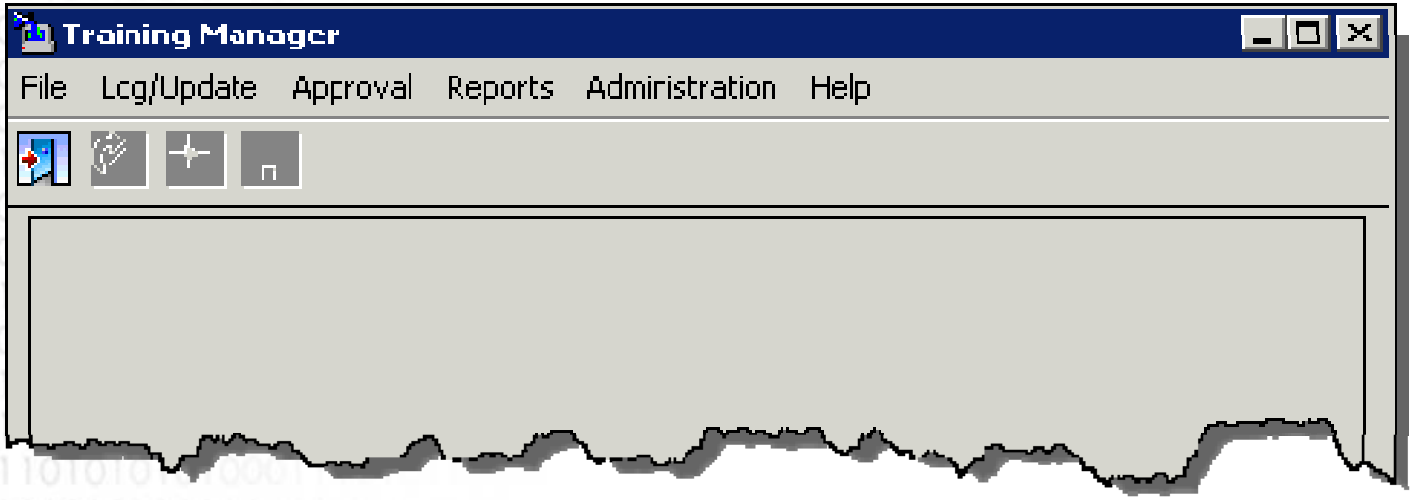
Structure

- **Added 3 new tables to the database**
  - Training Topics
    - Unique ID, description, type, interval, active flag
  - Required User Training
    - Unique ID using topic and user name, training topic, user name, active flag, group name, testing facility, trainer flag
  - Training Log
    - Training date, training topic, user name, approval date, and other information pieces
    - Mimics the table INSTRUMENT_LOG

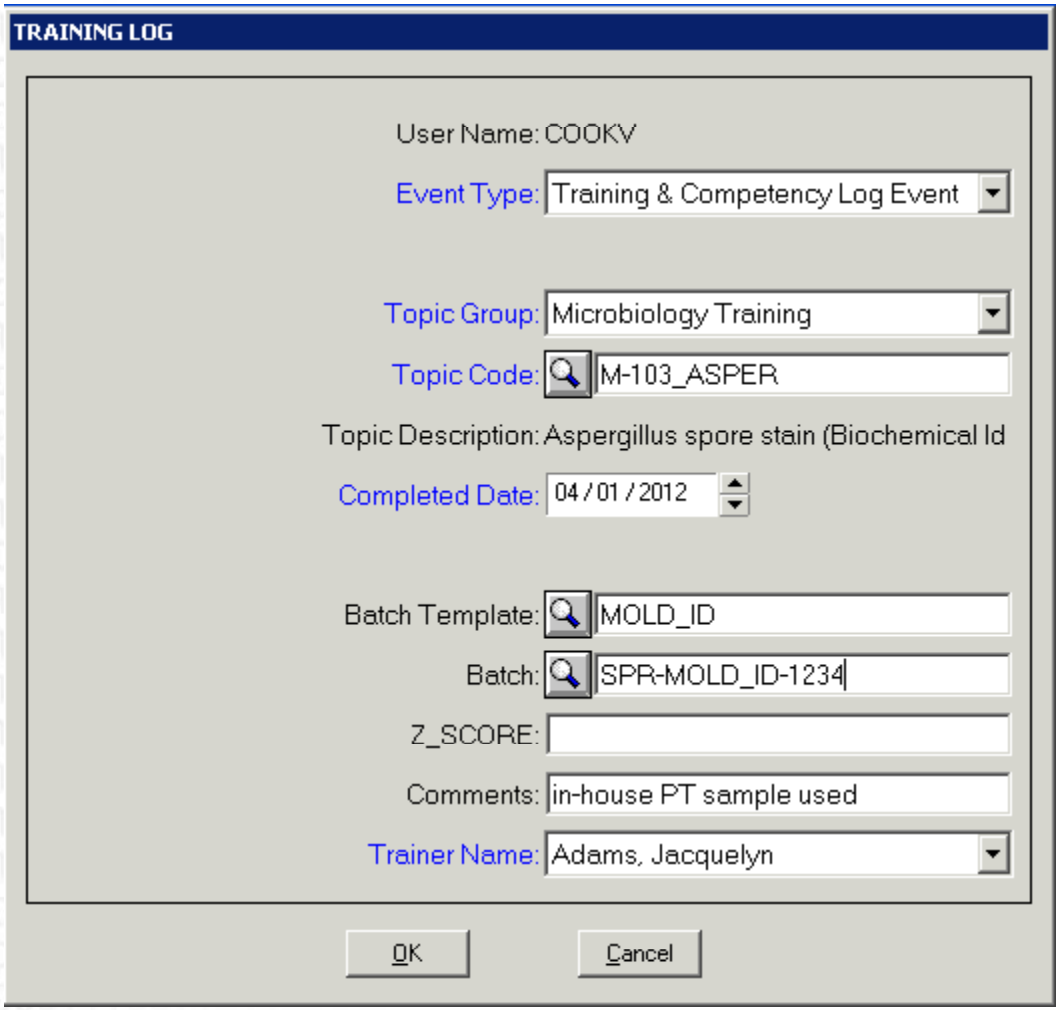
Objects and Interfaces

- Several subroutines, user dialogs and user menus
- Utilized existing laboratory, group, and functional security
- Created 7 reports
- Workflow visual aid to notify team members of upcoming training needs

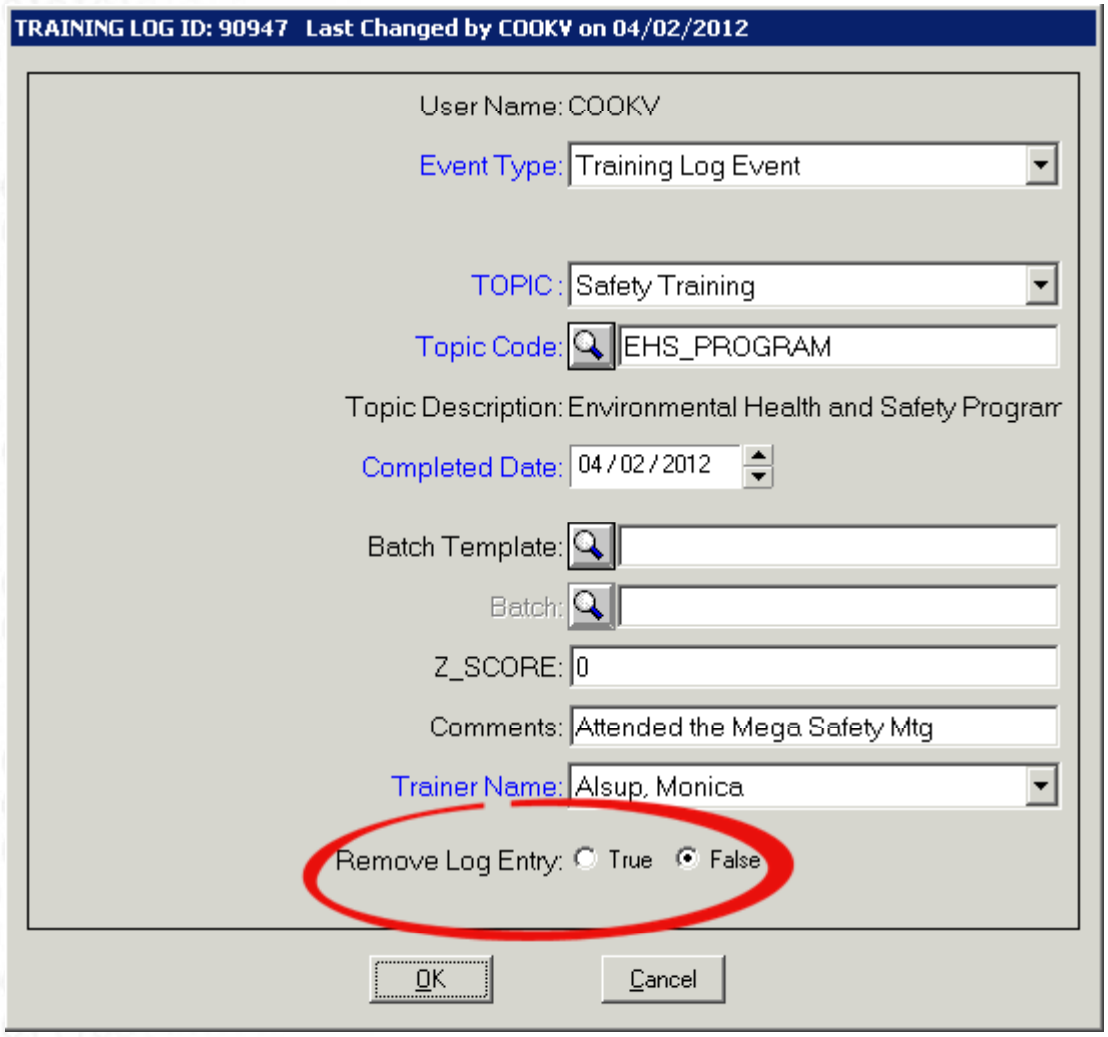
Training Manager



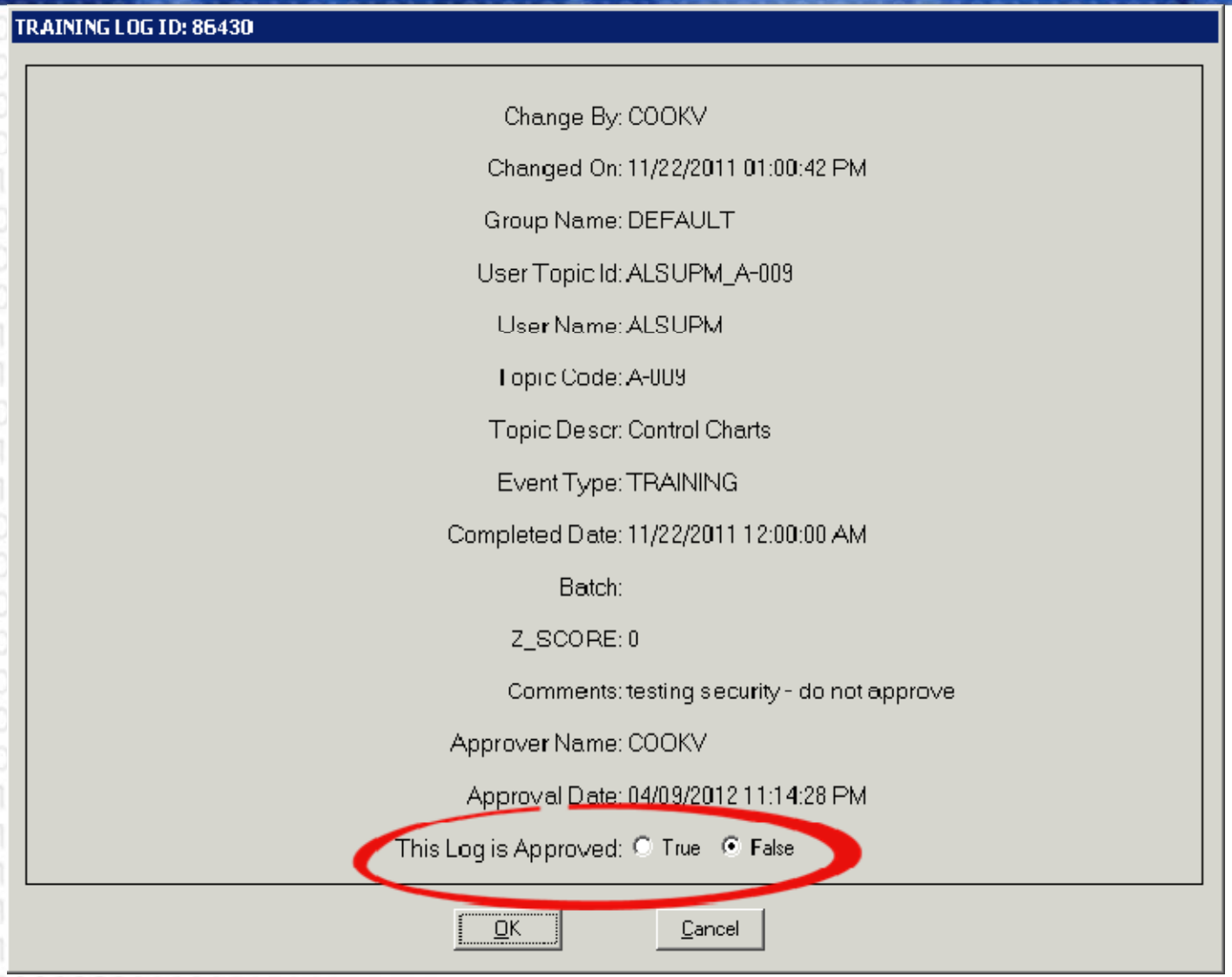
Log a Training Event



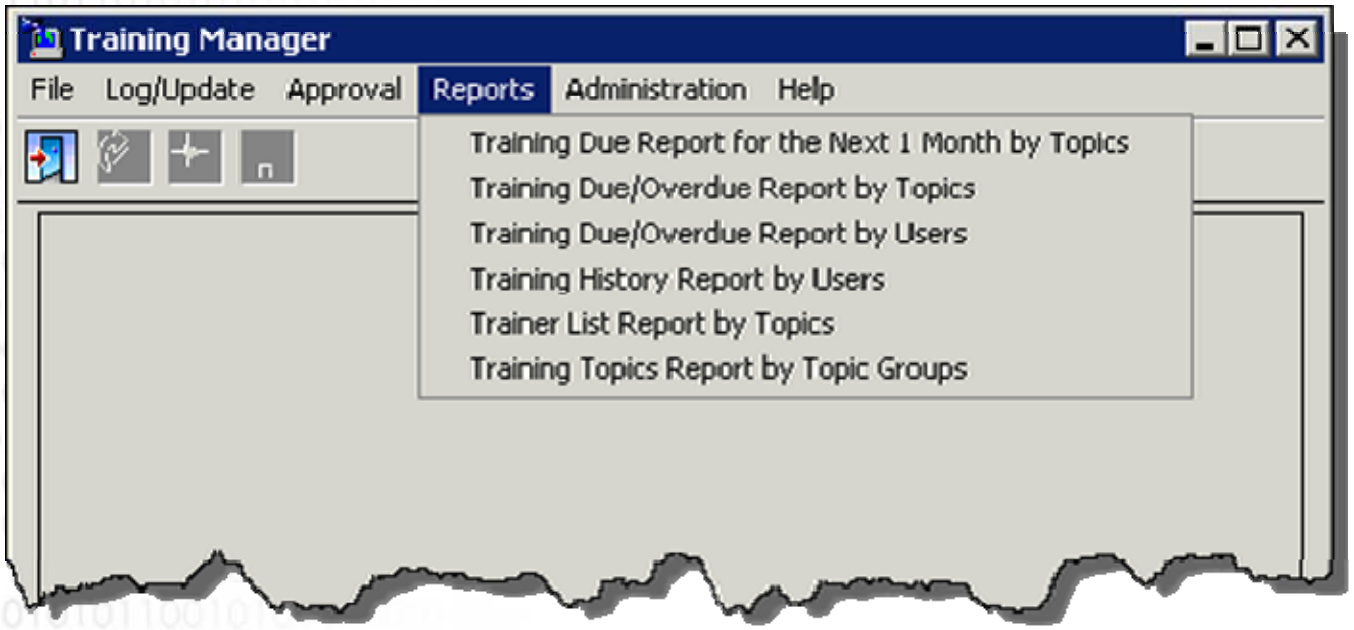
Edit a Training Event



Approve a Training Event

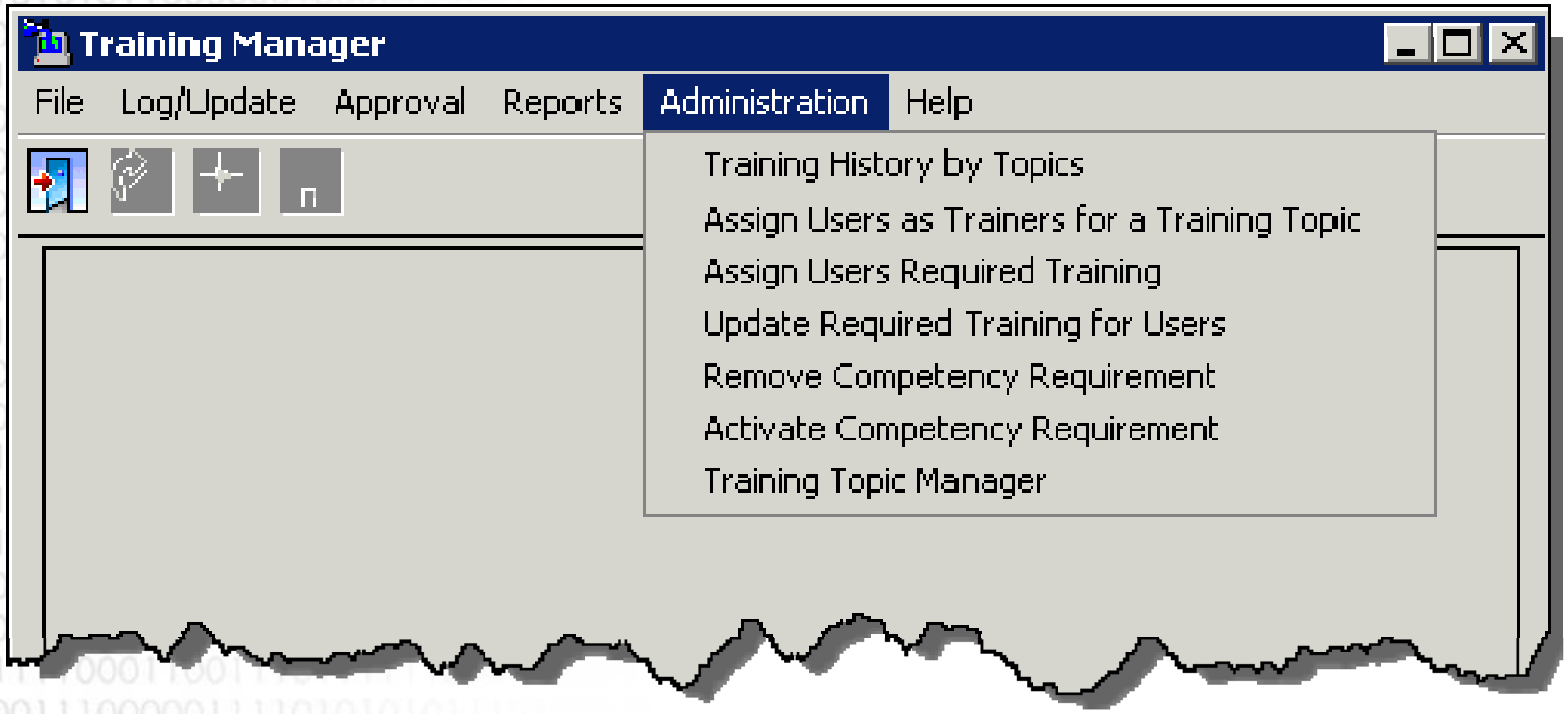


Reports

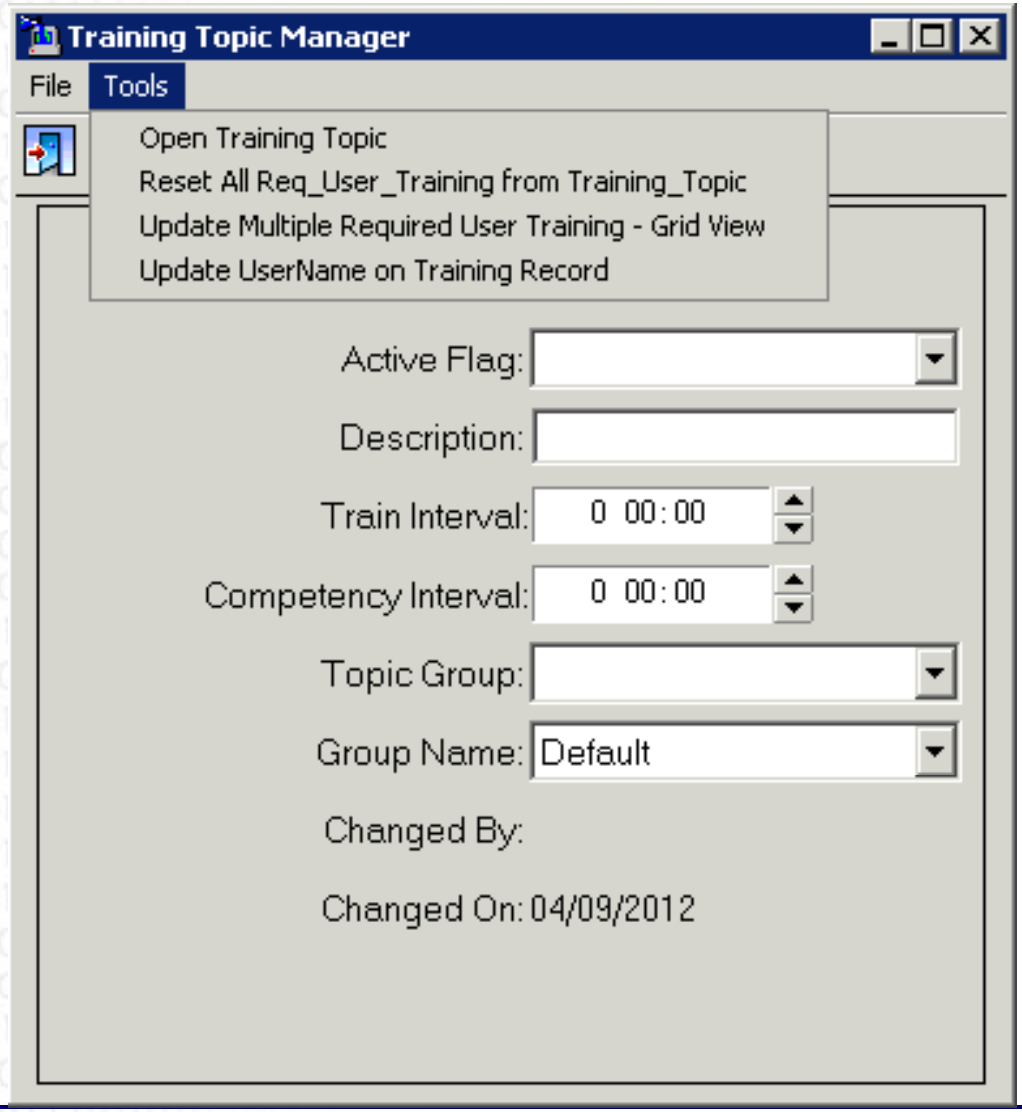


- **Plus a "Training Matrix" report that exports to Excel in cross-tab format for internal and 3rd party audits**

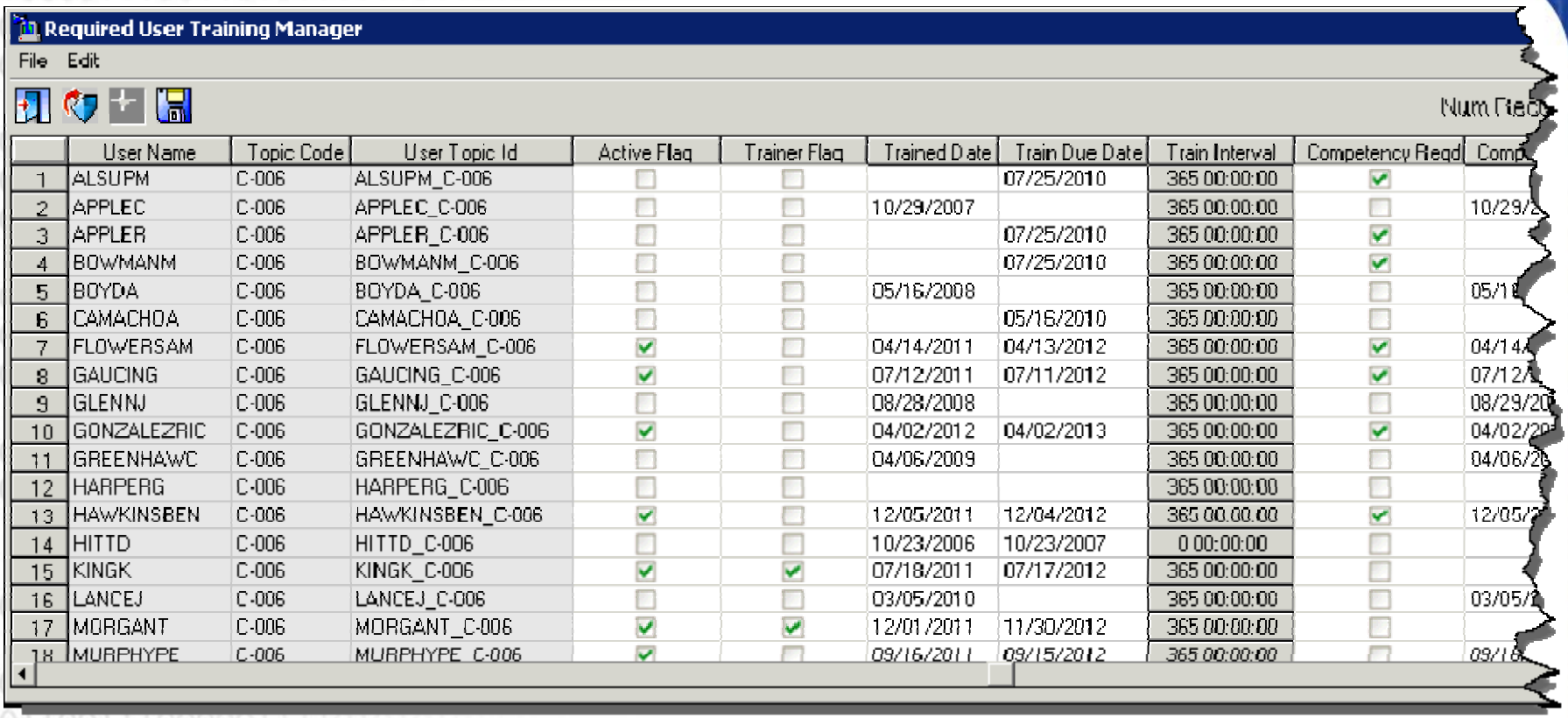
Administration



Training Topic Manager Tool



Required User Training Grid

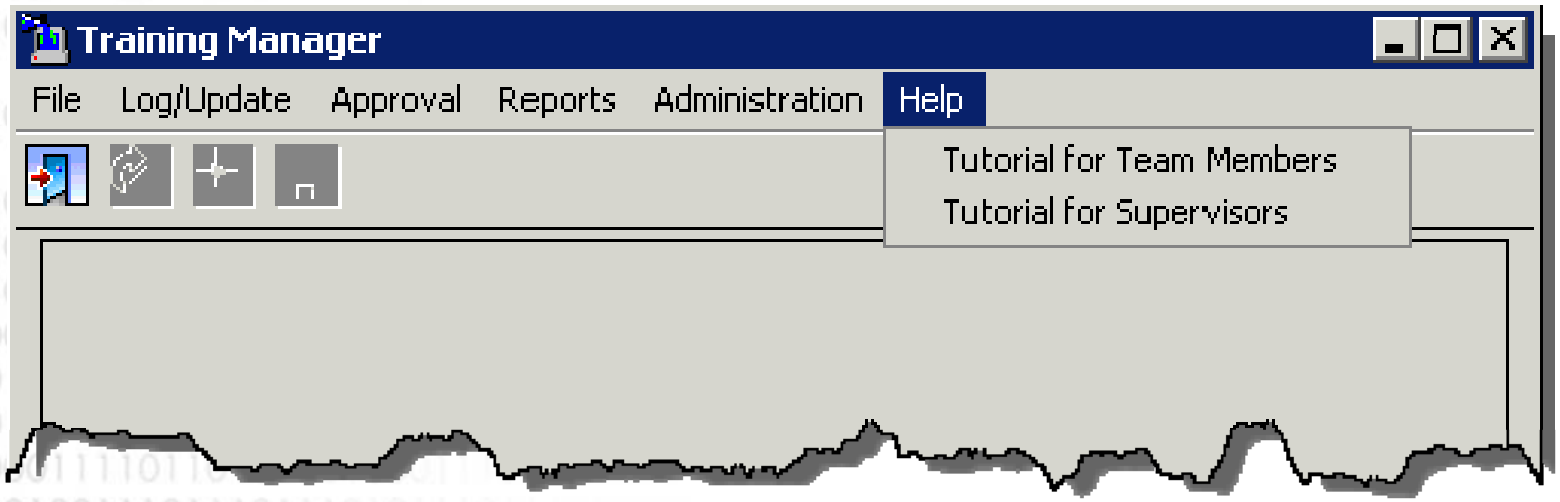


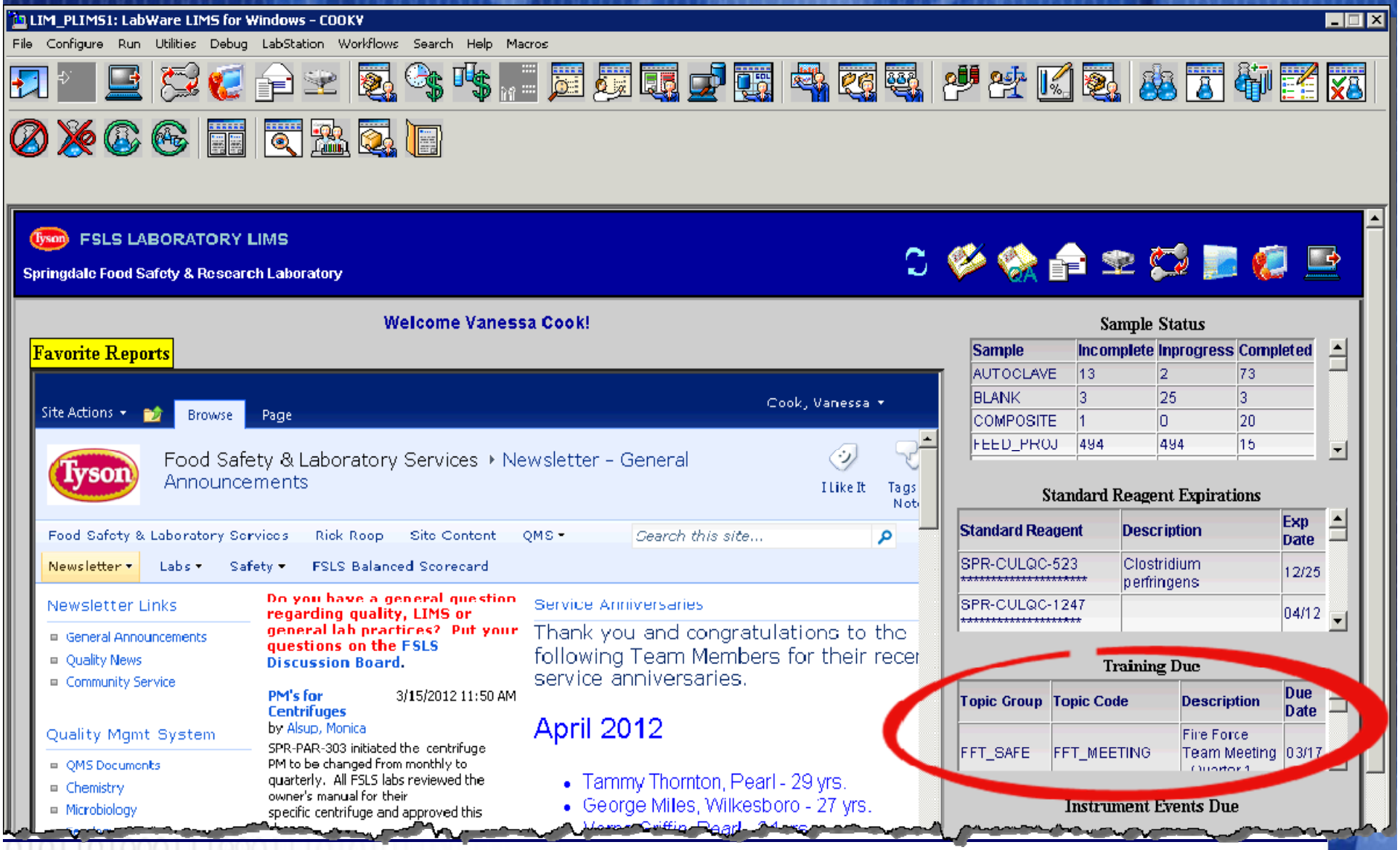
	User Name	Topic Code	User Topic Id	Active Flag	Trainer Flag	Trained Date	Train Due Date	Train Interval	Competency Reqd	Comp
1	ALSUPM	C-006	ALSUPM_C-006	☐	☐		07/25/2010	365 00:00:00	☑	
2	APPLEC	C-006	APPLEC_C-006	☐	☐	10/29/2007		365 00:00:00	☐	10/29/2
3	APPLER	C-006	APPLER_C-006	☐	☐		07/25/2010	365 00:00:00	☑	
4	BOWMANM	C-006	BOWMANM_C-006	☐	☐		07/25/2010	365 00:00:00	☑	
5	BOYDA	C-006	BOYDA_C-006	☐	☐	05/16/2008		365 00:00:00	☐	05/1
6	CAMACHOA	C-006	CAMACHOA_C-006	☐	☐		05/16/2010	365 00:00:00	☐	
7	FLOWERSAM	C-006	FLOWERSAM_C-006	☑	☐	04/14/2011	04/13/2012	365 00:00:00	☑	04/14
8	GAUCING	C-006	GAUCING_C-006	☑	☐	07/12/2011	07/11/2012	365 00:00:00	☑	07/12
9	GLENNJ	C-006	GLENNJ_C-006	☐	☐	08/28/2008		365 00:00:00	☐	08/29/20
10	GONZALEZRIC	C-006	GONZALEZRIC_C-006	☑	☐	04/02/2012	04/02/2013	365 00:00:00	☑	04/02/20
11	GREENHAWC	C-006	GREENHAWC_C-006	☐	☐	04/06/2009		365 00:00:00	☐	04/06/2
12	HARPERG	C-006	HARPERG_C-006	☐	☐			365 00:00:00	☐	
13	HAWKINSBEN	C-006	HAWKINSBEN_C-006	☑	☐	12/05/2011	12/04/2012	365 00:00:00	☑	12/05/2
14	HITTD	C-006	HITTD_C-006	☐	☐	10/23/2006	10/23/2007	0 00:00:00	☐	
15	KINGK	C-006	KINGK_C-006	☑	☑	07/18/2011	07/17/2012	365 00:00:00	☐	
16	LANCEJ	C-006	LANCEJ_C-006	☐	☐	03/05/2010		365 00:00:00	☐	03/05/2
17	MORGANT	C-006	MORGANT_C-006	☑	☑	12/01/2011	11/30/2012	365 00:00:00	☐	
18	MURPHYPE	C-006	MURPHYPE_C-006	☑	☐	09/16/2011	09/15/2012	365 00:00:00	☐	09/16

- **Role assignments allow appropriate access to functionality**

Enterprise Laboratory Platform
lims eln

Instructional Documents



- **Tutorial documents are stored in our LIMS User Manual SharePoint library and open in the Terminal Server environment for easy access.**

Workflow Status Window