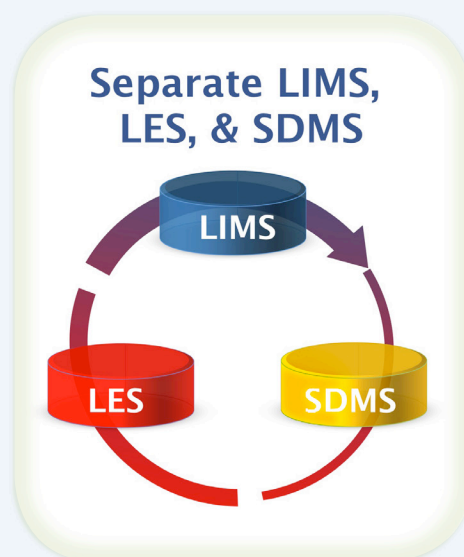


Thermo Scientific Lab Execution System

SampleManager LIMS Delivers a Complete Informatics Solution
for Method Execution, Laboratory and Data Management

Thermo Scientific™ SampleManager™ LIMS is continuously upgraded to meet the changing needs of industrial and life sciences laboratories. SampleManager 11 delivers:

- Method and SOP Execution
- Scientific Data Management
- Workflow Design
- Lifecycle Workflow
- Instrument Integration
- Dashboards



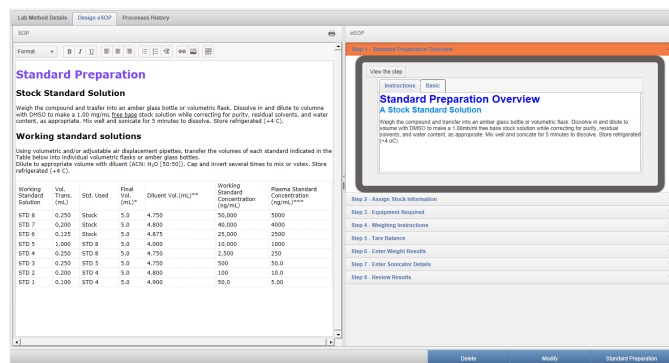
A comprehensive data and laboratory management solution like SampleManager LIMS, developed on paperless lab principles, is one of the most critical investments any business can make if they are moving towards a truly integrated and connected enterprise.

Addressing the increasing pressures to improve time to market and realize cost savings in QA/QC and analytical labs, the new Thermo Scientific Lab Execution System (LES) gives lab managers complete control to manage their methods and SOPs, without the need to purchase, integrate and validate additional software from multiple vendors. The new LES is web-based, built on and fully integrated with Thermo Scientific SampleManager LIMS, allowing for the LES functionality to be executed from the LIMS or from any web browser. Combined with the instrument integration capabilities of Thermo Scientific Integration Manager™,

and the raw data storage and retrieval capabilities of the company's SDMS (Data Manager™), the new LES expands the growing Informatics platform offered by the company, and offers customers the most comprehensive paperless lab solution available today. With the new SampleManager platform of embedded feature-rich capabilities, lab managers and scientists across all industries will be able to achieve full instrument integration, manage their methods and workflow, retrieve and archive any kind of raw scientific data, and export those results across the organization in the format that's required by the recipient.

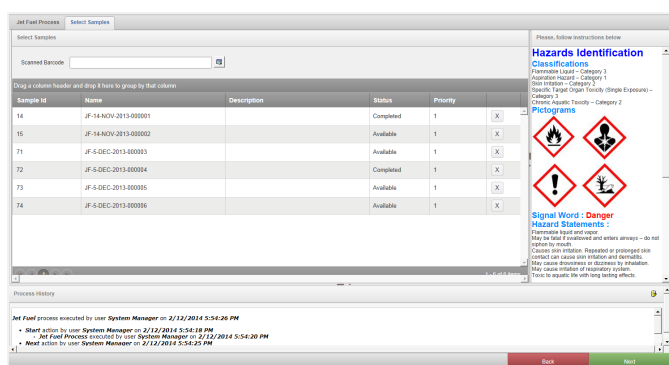
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SOPs and methods can be broken down into logical steps to guide analysts through the procedure.



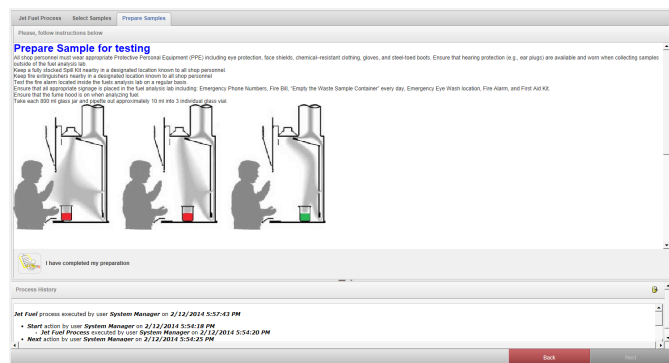
Working Standard	Final Vol.	Diluent Vol.	Working Standard Concentration	Plasma Standard Concentration
STD 1	0.250	5.0	4,750	50,000
STD 2	0.250	5.0	4,750	40,000
STD 3	0.250	5.0	4,750	30,000
STD 4	0.250	5.0	4,750	20,000
STD 5	0.250	5.0	4,750	10,000
STD 6	0.250	5.0	4,750	5,000
STD 7	0.250	5.0	4,750	2,500
STD 8	0.250	5.0	4,750	1,000
STD 9	0.250	5.0	4,750	500
STD 10	0.250	5.0	4,750	100

Hazard warnings embedded into the SOP remind analysts of necessary safety procedures.

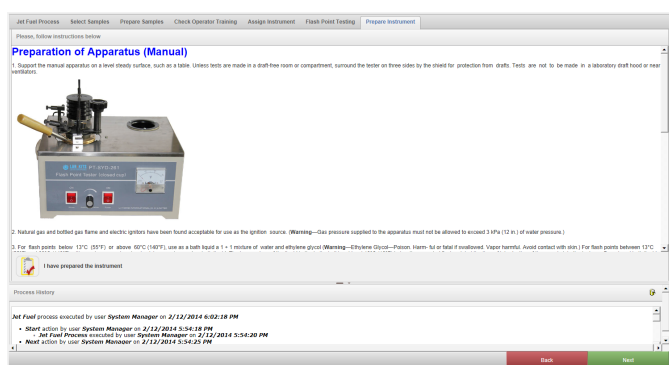


Sample ID	Name	Description	Status	Priority
H1	JF-16 NOV-2013-000001		Completed	1
H2	JF-16 NOV-2013-000002		Available	1
H3	JF-16 DEC-2013-000003		Available	1
H4	JF-16 DEC-2013-000004		Completed	1
H5	JF-16 DEC-2013-000005		Available	1
H6	JF-16 DEC-2013-000006		Available	1

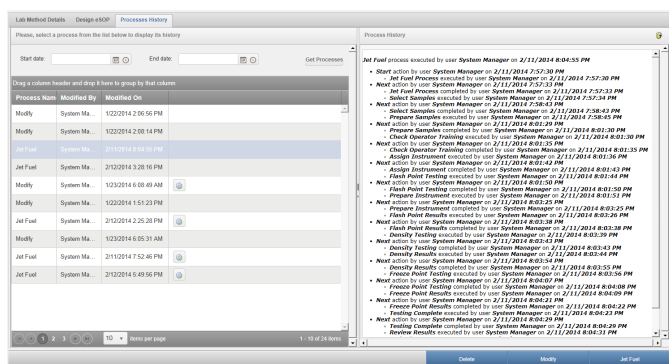
Instructions and illustrations demonstrate proper analytical techniques.



Training records and instrument calibration records ensure that only trained analysts and calibrated instrumentation is used.



Process history provides a detailed description of every activity that has occurred against an SOP or method and their status.



For more information about SampleManager LIMS and LES, call us at the number closest to you, email us at marketing.informatics@thermofisher.com, or visit www.thermoscientific.com/SM11

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