



# IMS Global Learning Consortium, Inc.

*presents*

## IMS Meta-data, Content Packaging & Enterprise: An advanced technology course

**27<sup>th</sup> September 2001**

**CISL National Study Center**

**Via della Piazzola 71,**

**I-50133 FIRENZE, ITALY**

**Tel. +39-0555032111**

**Fax. +39-055578057**

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### Course Aims & Objectives

While the development of good learning content is important, its effective and efficient delivery to the point of learning is essential. This delivery requires the packaging of the content, labelling of the materials and control of the learning session. The aim of this course is to give an **in-depth** explanation of the key IMS specifications that support the exchange of content and course information within the organisation based upon the IMS Learning Resource Meta-data, IMS Content Packaging and IMS Enterprise specifications.

### What You Will Learn

- How to use the IMS Content Packaging specification to package content for electronic exchange;
- How to package information based upon the IMS Meta-data, IMS Question & Test Interoperability and IMS Learner Information Package specifications;
- How the IMS Content Packaging and IMS Meta-data specifications are used within the ADL SCORM;
- How to exchange information on courses and their members between different administrative and learning systems using the IMS Enterprise specification;
- How to exchange learner and course information using a combination of the IMS Enterprise and IMS Learner Information Package specifications;
- How to build learning systems architectures using the IMS specifications.

### Who Should Attend

This course is for managers and engineers who are responsible for the development or usage of distributed on-line learning systems. It is also designed to help users decide how their learning system architecture should be built to provide a cost effective and open solution. It is advisable that attendees unfamiliar with the IMS specifications should have previously attended the introductory course on the IMS Meta-data, IMS Content Packaging & IMS Enterprise.

## Course Content

### **1. IMS Technologies & Tools**

- The IMS specification development process
- XML and XML schema (inc. XSDs and DTDs)
- XML Parsers, Validators and Editors
- Working with XML

### **2. IMS Content Packaging Specification V1.1.2**

- The core data structures and features (Manifest, Resources and Organization)
- Walk-thru of the Content Package XML schema
- Support for content labelling using IMS Meta-data
- Support for content assessment using IMS Question & Test Interoperability
- Adding proprietary features
- IMS Content Packaging and ADL SCORM
- Converting content for usage with IMS Content Packaging
- What to do and what not to do with the IMS Content Packaging specification
- Vendor implementations and use-cases

### **3. IMS Enterprise Specification V1.0**

- The core data structures and features (Person, Membership and Groups)
- Walk-thru of the Enterprise XML schema
- Unique identifiers, sourcedids and the IMS Persistent Location-independent Resource Identifier
- Extending the specification
- Relationship to the IMS Learner Information Packaging
- What to do and what not to do with the IMS Enterprise specification
- Typical transactions using the IMS Enterprise specification
- Vendor implementations and use-cases

## **Course Timetable**

The timetable for the day is:

8:15 to 8:45	Registration
8:45 to 9:00	Course Introduction
9:00 to 10:00	<b>IMS Technologies &amp; Tools</b>
10:00 to 10:30	<i>Break</i>
10:30 to 1:00	<b>IMS Content Packaging Specification V1.1.2</b>
1:00 to 2:00	<i>Lunch</i>
2:00 to 3:00	<b>IMS Enterprise Specification V1.01 – Part 1</b>
3:00 to 3:30	<i>Break</i>
3:30 to 5:00	<b>IMS Enterprise Specification V1.01 – Part 2</b>
5:00 to 5:30	Course Review & Final Questions

## **Course Materials**



Attendees to the course will be given:

- A detailed course workbook that contains all of the presented materials plus supplementary information;
- A CD containing an electronic version of the course notes plus the latest set of all **of** the released IMS specifications.

## Course Costs

Attendance on this one-day course is \$650 that must be paid in advance to IMS Global Learning Consortium Inc. Please book through the IMS web-site: <http://www.imsglobal.org> *Early Bird Registration*: If you sign up and pay in full on or before 6th September 2001 you will pay only \$550.00 USD.

## Course Presenters

<b>Thor Anderson, Ph.D.</b>	<b>Colin Smythe, Ph.D.</b>
<p>Thor has been involved in the development of the IMS specifications since March 1999. He is the technical lead for the development of the IMS Meta-data, IMS Content Packaging and IMS Learner Design specifications. He is also the Director of IMS Developer Support. Before joining the IMS, he was an instructional software developer with Apple, Netscape, and Oracle. His Ph.D. is in Instructional Technology from Utah State University.</p> 	<p>Colin has been involved in the development of the IMS specifications since September 1999. He is the technical lead for the development of the IMS Enterprise, IMS Learner Information Package , and IMS Question &amp; Test Interoperability specifications. He has taught on the topic of e-learning at many conferences throughout the world and before joining IMS he was Head of the Department of Computer Science and a full Professor at the University of Sheffield, UK.</p> 

*Hotel details and directions will be provided upon receipt of registration and payment.*