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| i2s Learning Services Training Proposal  submitted to  **Essilor** |
| By  **i2s Business Solutions**  Date: 8 April 2015 |

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# Course Details and Fees

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| **Code** | **Course Title** | **Days** | **Fees US$**  (up to 5 participants at i2s Business Solutions premises) |
| WM665G | IBM Integration Bus V9 Application Development I | 5 | 3,750 |
| WM675G | IBM Integration Bus V9 Application Development II | 5 | 3,750 |
| **Total** | | **10** | **7,500** |

**Note**:

* The above price is valid for conducting the training at **customer/IBM** premises
* Every additional participant above 5 would be charged at **US$** **500** per day
* 2 Weeks mobilization period is required upon receiving PO
* If required, i2s shall arrange **IBM training material** and shall **invoice** client for the actuals.
* Trainer's travel cost (KL to Singapore or Bangalore on shortest economy class) and hotel accommodation (not exceeding USD 100 per night) shall be charged based on actuals

**Payment Term:**

* Course Fee shall be settled along with the PO

# Course Descriptions

1. IBM Integration Bus V9 Application Development I

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| Course Code:  **WM665G** | Duration: | 5 days |
| Delivery Type: | Classroom (Hands-on labs) |
| Skill Level: | Intermediate |

**Overview**

In this 5-day instructor-led course, you learn how to use IBM Integration Bus to develop, deploy, and support platform-independent message flow applications. These applications use various messaging topologies to transport messages between service requesters and service providers, and also allow the messages to be routed, transformed, and enriched during processing.

The course explores message flow problem determination, with an emphasis on identifying and recovering from errors in message flows. You learn how to construct message flows that use extended Structured Query Language (ESQL), Java, and the IBM Graphical Data Mapping editor to transform messages. The course also explores how to control the flow of messages by using various message processing nodes, and how to use databases and maps to transform and enrich messages during processing.

**Audience**

This course is designed for experienced integration specialists and senior-level developers with experience in application development and WebSphere MQ.

**Prerequisites**

You should have:

* Basic experience with WebSphere MQ administration
* A basic understanding of current IT technologies such as Structured Query Language (SQL), Extensible Markup Language (XML), Java, and XML Path language (XPath)
* An understanding of the business needs of your organization

**Skills Taught**

* Describe the features and uses of the IBM Integration Bus
* Develop, deploy, and test message flows
* Generate message flows from predefined patterns
* Use IBM Integration Bus problem determination aids to diagnose and solve development and runtime errors
* Describe the function and appropriate use of various message processing nodes
* Write basic ESQL and Java methods to transform messages
* Use the IBM Graphical Data Mapping editor to transform messages
* Define, use, and test simple XML and Data Format Description Language (DFDL) message models
* Describe supported transport protocols and how to call them in message flows
* Describe IBM Integration Bus integration with other IBM products such as IBM Business Process Manager, WebSphere Enterprise Service Bus, WebSphere DataPower, and WebSphere Transformation Extender
* Extend IBM Integration Bus functions by using WebSphere Adapters and plug-ins
* Describe the packaged application support for SAP, Siebel, and PeopleSoft

**Course Outline**

* Course introduction
* Introduction to IBM Integration Bus
* Application development fundamentals
* Exercise: Importing and testing a message flow
* Developing message flows
* Exercise: Implementing a message flow pattern
* Using problem determination tools and help resources
* Exercise: Analyzing runtime error scenarios
* Exercise: Using problem determination tools
* Using compute nodes to transform messages
* Exercise: Implementing a message flow
* Controlling the flow of messages
* Exercise: Adding flow control to a message flow
* Exercise: Implementing explicit error handling
* Modeling messages
* Exercise: Implementing a message model
* Mapping messages with the Graphical Data Mapping editor
* Referencing databases in a message flow
* Exercise: Referencing a database in a map
* More message processing nodes
* Message transports overview
* Preparing for production
* Exercise: Creating a runtime-aware message flow
* Extending IBM Integration Bus
* Course summary

1. IBM Integration Bus V9 Application Development II

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| Course Code:  **WM675G** | Duration: | 5 days |
| Delivery Type: | Classroom (Hands-on labs) |
| Skill Level: | Intermediate |

**Overview**

This 5-day course provides an intermediate-level continuation of course *IBM Integration Bus V9 Application Development I (WM665)*, which introduced the concepts necessary to successfully create and support IBM Integration Bus message flow applications.

**Audience**

This intermediate course is designed for integration specialists and senior-level developers with experience in IBM Integration Bus application development.

**Prerequisites**

You should successfully complete *IBM Integration Bus V9 Application Development I (WM665)* **or** *(VM665)*, which introduces IBM Integration Bus development topics that are necessary for success in this course.

**Skills Taught**

* Aggregate messages in a message flow
* Control the sequence of messages in a message flow
* Transform messages with Microsoft .NET and Common Language Runtime facilities, the PHP scripting language, and XML style sheets
* Extend DFDL message models
* Use message sets and the Message Repository Manager (MRM) parser
* Provide a message flow as a web service
* Request a web service from within a message flow
* Generate Web Services Description Language (WSDL) files from a message model
* Describe how to implement WS-Addressing and WS-Security standards in IBM Integration Bus
* Create an integration service
* Create and implement a WebSphere MQ request and response service definition
* Create and implement a database service definition
* Use Java Message Services (JMS) as a transport protocol within IBM Integration Bus
* Implement publish and subscribe with IBM Integration Bus
* Configure security-enabled message processing nodes
* Record and replay messages that a message flow processes
* Analyze and filter information in complex XML documents
* Construct and extend a user-defined pattern

**Course Outline**

* Course introduction
* Aggregating and controlling message sequence
* Exercise: Implementing message aggregation
* Transforming messages with PHP, XSL, and Microsoft .NET
* Modeling complex data with DFDL
* Exercise: Extending a DFDL model
* Working with message sets and the MRM parser
* Exercise: Implementing an MRM message set
* Implementing web services
* Exercise: Implementing web services with IBM Integration Bus
* Integration services
* Exercise: Creating and testing an integration service
* WebSphere MQ and database service discovery
* Exercise: Discovering WebSphere MQ and database services
* Using JMS for message transport
* Exercise: Implementing a message flow that uses JMS
* Implementing publish/subscribe
* Implementing message security
* Exercise: Implementing IBM Integration Bus runtime security
* Analyzing data and message flows
* Exercise: Recording and replaying message flow data
* Creating patterns for reusability
* Exercise: Creating and implementing a user-defined pattern
* Course summary

# Terms and Conditions for i2s Courses and Education Materials

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| The terms and conditions for i2s courses and education materials consists of these terms and conditions overleaf, along with any applicable license agreement, and are the complete agreement between the parties regarding the courses and/or education materials i2s provide and replace any prior oral or written communications between the parties. Terms and conditions of any purchase order issued by you with respect to the subject matter herein shall not apply to the courses or education materials but any formal purchase order will be accepted as a confirmation of attendance and the terms of this Agreement.  By ordering a course and or education materials, or receiving a Service, attending a class or using any education materials constitutes your acceptance of the Terms and Conditions of this Agreement and it is executed as of the date of our confirmation.  **“Course”** means an educational service available from i2s. A course may be provided by instructors presenting Educational Material in a class room (a class) and or by self-study of education materials.  **“Education materials”** are literary works or other works of authorship including documentation, manuals, machine-readable instructions, components, data, audio-visual content (such as images, text, recordings, or pictures) and related licensed materials. Education material is owned by i2s or one of its third party suppliers, and is copyrighted and licensed, not sold. All whole or partial copies of education material shall be subject to the same terms as the original copy.  **Courses and Education Materials**  We provide information regarding the courses on request. We may add or withdraw courses and education materials at any time without notice.  i2s will provide each student with the official student material for each course and issue a course completion certificate to each student who attends at least 80% of the total duration of the course.  **Scheduling Classes**  **Public classes**: We will specify the dates of public classes.  **Private (One-Company) classes:** Will be scheduled by mutual agreement. We will require a month’s advance notice before the start of the courses. For private courses, the classes will be held at customer site unless otherwise specifically stated. The customer will be required to supply the required classroom facilities as well as the hardware, software, multimedia projector, and lunch, tea/coffee.  **Course Fees and Charges**  All Charges are valid for 30 days. However, i2s reserves the right to increase Charges at any time without prior notification after the validity period.  **Public classes**: Course Fees for public classes/courses will be those in effect on the date the class begins and include the use of required education materials and machines. They do not include student travel and living expenses. Charges include reasonable expenses incurred by i2s in the provision of the Services including travel, accommodation and living costs. Other miscellaneous costs to be charged to you will be mutually agreed between the Parties. | **Private Classes**: Charges for private classes will be established based on your requirements and will cover the course material provided to the students, the instructor fees, and travel/living costs of the instructor. Additional charges may apply, such as additional students beyond the agreed number, facilities, and remote lab support. The set-up charges will be generally included in the private classroom pricing unless specifically stated separately.  **Payment terms**  You agree to pay i2s the course fees or charges defined above including applicable taxes imposed by any authority and any late payment fees, which we specify in the invoice.  Payment is in advance unless mutually agreed otherwise. Advanced payments must be made no later than 5 days prior to the commencement date of the course or in the case of multiple courses specified above the total amount to be paid prior to the commencement of the first course. Any course for which advance payment has been made that i2s cancel will be refunded in full.  The charges for the private classes are based on a class size of no more than five (5) students unless otherwise stated in the quotation. Any additional student will be charged at US$ 500 per day, per additional student, unless otherwise specified in the quotation/proposal.  **Cancellation Charges**  **Public classes**: You will be billed the full price of a class/course if you cancel your enrollment less than seven calendar days prior to the scheduled start date or if you do not show up for the class. Registrants who fail to attend without notification or who do start but do not complete the Course are subject to the full tuition cost.  i2s reserves the right to cancel a course if there are less than five registered students. Cancellation notice will be given by i2s 5 days prior to start of the course.  **Private classes**: If you cancel a private class within seven calendar days prior to the scheduled start date, or following commencement you will be billed the full price of the private class; if you cancel between eight and fifteen calendar days prior to the scheduled start date you will be billed 25% of the full price; and if you cancel between sixteen and twenty-one calendar days prior to the scheduled start date you will be billed 10% of the full price. Cancellation of a private class more than twenty-one calendar days prior to the scheduled start date may be made without charge.  **Conference** cancellation charges will be specified on the conference website or in the conference brochure for the event.  **Patents and Copyrights**  If a third party claims that the education materials we provide to you infringe that party's patent or copyright, we will defend you against that claim at our expense and pay all costs, damages, and attorney's fees that a court finally awards, provided that you shall promptly notify us in writing of the claim; and allow us to control, and cooperate with us in, the defence and any related settlement negotiations. If such a claim is made or appears likely to be made, you agree to permit us to enable you to continue to use the education materials, or to modify or replace them. If we determine that none of these alternatives is reasonably available, you agree to return the education materials to us on our written request. We will then give you an appropriate credit for the returned materials. |

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