

Training Course Data Sheet	
PME311 <b>Aspen InfoPlus.21:                      Applications Development</b>	Course Number: <b>PME311</b>
	Duration: <b>5 days</b>
	CEUs Awarded: <b>3.5</b>
	Level: <b>Advanced</b>

<p><b>Former Course Title/Number</b></p> <p>This course was previously known as Aspen InfoPlus.21® Applications Development, MM406</p> <p><b>Objectives</b></p> <ul style="list-style-type: none"> <li>Tailor Aspen InfoPlus.21 database records to fit your process perfectly</li> <li>Build active processing elements into your own customized data structures</li> <li>Evaluate Aspen InfoPlus.21 for use with an application</li> <li>Write your own processes to use with Aspen InfoPlus.21</li> <li>Design or maintain an Aspen InfoPlus.21 application</li> <li>Create a custom client application using the latest Visual language techniques including VB.NET and ASP.NET to bring Aspen InfoPlus.21 data to the desktop</li> </ul> <p><b>Course Benefits</b></p> <ul style="list-style-type: none"> <li>On-site expertise reduces downtime, and enables in-house implementation of changes</li> <li>Maximize business value by fully utilizing all appropriate features of the product.</li> <li>Accurate specification of your application means accurate process data</li> <li>Exploit the potential of publishing process data across your enterprise</li> </ul> <p><b>Who Should Attend</b></p> <ul style="list-style-type: none"> <li>Database designers, System integrators and application developers, Programmers, System managers, Database maintenance or support staff</li> </ul>	<p><b>Approach</b></p> <ul style="list-style-type: none"> <li>A series of lecture sessions, with frequent hands-on sessions using v2006.5 software to put theory into practice on a local training database</li> <li>A complete guide to creating custom families of records, including those with multiple repeat areas, history, built-in event detection and all other Aspen InfoPlus.21 database features</li> <li>Use of the Redefinition Wizard is covered</li> <li>Write programs to perform processing on Aspen InfoPlus.21 data using the Aspen InfoPlus.21 API. Although examples are in “C”, code is fully explained the code for non-“C” programmers</li> <li>Configure Aspen SQLplus® queries to trigger from data changes and perform processing</li> <li>Write client applications in VB6, VB.NET and ASP.NET that can remotely access data on the Aspen InfoPlus.21® server using ODBC links and Process Explorer Automation Objects</li> </ul> <p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>PME101 Aspen InfoPlus.21: Real Time Information Management Foundation (mandatory)</li> <li>PME201 Aspen InfoPlus.21: Real Time Information Management Foundation (highly recommended)</li> <li>Students who have some experience in a programming language will gain more benefit from some sections of the course</li> <li>Note: Aspen Web.21™ is not covered in this course.</li> </ul>
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**PME311 Aspen InfoPlus.21: Applications Development Course Agenda**

**Day 1**

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| <ul style="list-style-type: none"> <li>Customized Record definition                             <ul style="list-style-type: none"> <li>Use Definition Editor Tool</li> <li>Add fields, setting data types and presentation formats</li> <li>Configure automatic field updates, e.g. update timestamps</li> <li>Configure limit checking</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>Learn how to use Aspen SQLplus generic queries to process Aspen InfoPlus.21 activations.</li> <li>Build a downtime application using generic queries.</li> <li>Review Summary and Alarm processing in Aspen InfoPlus.21</li> </ul> |
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- Configure rate of change calculation
  - Include normal and history repeat areas in a custom record
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**Day 2**

- Customized Record definition (cont'd)
    - Configuring history repeat areas
    - Configure map records
    - Custom selector records
    - Using the Redefine Wizard to modify Definition records on the fly.
    - How select records work
    - Use of the Redefinition Wizard
    - Attach standard record processing e.g. boxcar, validation
    - Use "ghost selector pointing" for recipe records
  - Preparing custom records for processing
    - Methods of triggering programs from record
    - Use diagnostic utilities to detect "activation" triggering
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**Day 3**

- Introduction to the Aspen InfoPlus.21 API
  - Writing programs using the Aspen InfoPlus.21 API including user triggered programs; programs triggered automatically from record "activations"; programs that run on the Aspen InfoPlus.21 server and remotely
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**Day 4**

- Client-based Applications
    - Create a desktop application with Aspen InfoPlus.21 data using VBA for Process Explorer (VB6)
    - Access current and historical Aspen InfoPlus.21 data from custom client applications using the ADO model, SQL and Desktop ODBC
    - Create applications that write data to the Aspen InfoPlus.21 database. User data entry forms
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**Day 5**

- Build a VB.NET application to retrieve data from Aspen InfoPlus.21 using ADO.NET
- Build a VB.NET application to retrieve data from Aspen InfoPlus.21 using Aspen Process Data
- Build an ASP.NET web page that uses ADO.NET to retrieve values from Aspen InfoPlus.21
- Build a Web service that can be used to write queries against Aspen InfoPlus.21

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