CONTINUAL PROGRESSION

- AVEVA Americas Course Schedule 2008 -

Courses	Modules	Days	Aug	Sept	Oct	Nov	Dec
Piping & Equipment Design	M3, M4, M5	Mon - Fri	11-15 (H)(W)		6-10 (H)(W)	3-7 (H)(W)	
Steelwork Design	M3, M6, M18	Mon - Fri					8-12 (H)(W)
Electrical Design	M3, M4, M9 Partial M5	Mon - Fri			27-31 (H)	17-21 (W)	
Piping Catalogues & Specifications	M22	Mon - Fri	18-22 (H)(W)	29-3 (H)(W)		10-14 (H)(W)	
Deliverables Production	M10, M12 M13	Mon - Fri			27-31 (W)	17-21 (H)	
Deliverables Administration	M27, M28	Mon - Fri		8-12 (H)			15-19 (W)
Basic Administration	M25	Wed-Fri			22-24 (W)		
PML	M33	Mon - Fri			20-25 (H)		15-19 (H)

(H - Houston, W – Wilmington)

- Our courses are open to individuals with a background in engineering, both contractors and/or full-time employees.
- Courses are conducted in our dedicated training suite at AVEVA Houston, TX and Wilmington, DE
- Customer demand dictates how frequently we run our courses. If you don't see the course(s)/module(s) that you are interested in attending on the Schedule, please contact training.us@aveva.com or by telephone (302) 427 8600 to find out when the next dates are.
- If you are a company that requires three or more staff to be trained, then simply book one of our trainers for an onsite visit.
- To optimize your learning potential, our maximum class size is eight students
- A module list defining the content of each training module is available on request.
- Course fees are available on request.
- Please note that for new users we offer Introductory Courses comprised of blocks of modules (see Course Schedule). 281) 654-5905
- Modules 9 to 42 have certain PDMS knowledge pre-requisites.
- Some modules must be taken in conjunction with associated modules.
- The minimum class size is four; if a class size falls below this number, the class is subject to rescheduling.

For more information, please contact Pam Trovinger, Training Coordinator
1-302-427-8600

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CONTINUAL PROGRESSION

PDMS Plant Design Module List

2008

Module No	Module Name	Module Description	No of Days
M1	Overview Demonstration	This module provides an appreciation of the functionality available to the different engineering disciplines. Although aimed at managers, it is also of benefit to anyone working within the engineering environment.	1
M2	Hands-On Overview	Intended to provide an appreciation of the functionality available to the different engineering disciplines and give an appreciation of data requirements and workflow when working with 3D CAD. Aimed at managers, senior engineers and designers who will be responsible for projects and deliverables.	2
M3	Basics and Functions	This is a core module that introduces users to the set-up of VANTAGE Plant Design within the computer environment. It demonstrates how to access and exit VANTAGE Plant Design, utilise the mouse and keyboard functions and the principles of graphical image control.	Part of Introductory Courses
M4	Equipment Design	This module develops the basic skills for using VANTAGE Plant Design for Equipment Design and is useful not only to equipment engineers and designers, but also to instrument and electrical, architectural, piping, layout and structural engineers.	2
M5	Piping Design	Piping designers will learn how to create and manipulate pipe routes in VANTAGE Plant Design. Also, how the system handles out of spec items, pipework connectivity, site and shop materials and some basic isometric production.	2
M6	Basic Steelwork Design	This module develops the skills for creating and modifying basic steelwork elements in VANTAGE Plant Design.	2
M7	Wall and Floor Design	Architectural and other engineering disciplines learn how buildings and civils constructs are created to complete the project design.	2
M8	HVAC Design	This module develops the skills for creating and manipulating HVAC in VANTAGE Plant Design.	2
M9	Cable Tray Design	This module develops the skills for creation and manipulation of cable trays.	1

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Module No	Module Name	Module Description	No of Days
M10	Drawing Production	This module develops the skills for creating engineering drawings and can only be undertaken by candidates that know how design data is created.	2
M11	Clash Detection	Supplementing the basics covered in earlier modules, this module develops the skills of clash detection to fulfil clash-free design requirements and quality assurance audits.	1
M12	Reports	An extension to the principles covered in earlier modules, this module develops the skills to produce report data for materials take-off, pre-order quantities, data checking and quality assurance audits.	1
M13	Isometric Production	Developing the basic isometric skills covered in earlier modules, this module shows how to produce different types of isometrics and provides awareness of other module requirements.	1
M14	Hangers and Supports	With supports affecting all disciplines and providing significant additional bulk and steelwork, this course benefits all.	1
M15	Multi-Discipline Supports	This is an alternative method of creating supports and is a useful extra string to a piping engineer's bow.	2
M16	Piping Spools	Company specific Spool criteria and requirements are used to transform VANTAGE Plant Design pipe routes into required spool sections.	2
M17	Pipe Router	Advanced router allows rapid layout configurations to be created for preliminary material take offs.	2
M18	Advanced Steelwork Design	This module enhances the knowledge already gained from the Basic Steelwork Design module through the introduction of the more advanced topics in VANTAGE Plant Design Steelwork Design.	2
M19	Equipment Template Design	All companies with specific technologies, and modular and object engineering requirements will benefit from creating equipment templates that will satisfy all output requirements for specific project designs.	4
M20	Advanced Drawing production	This module develops the skills for creating engineering drawings and can only be undertaken by candidates who know how design data is created.	2

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CONTINUAL PROGRESSION

Module No	Module Name	Module Description	No of Days
M22	Piping Catalogues & Specifications	Aimed at piping engineers with PDMS isometric skills, this module shows how to recreate all engineering piping specifications in a VANTAGE Plant Design format, also including any additional piping components.	5
M23	Structural Catalogues & Specifications	Following this course, the user will be able to recreate all structural members joints and fittings in a VANTAGE Plant Design format and also create structural member specifications for use in the design environment.	5
M24	Hangers & Supports, Catalogues & Specifications	This module teaches the attendee how to recreate all piping supports and specifications in a VANTAGE Plant Design format.	5
M25	Basic Administration	Although entitled 'Basic' Administration, attendees on this course must have a comprehensive understanding of many areas of PDMS, as the course will enable the attendee to create and control any size of VANTAGE Plant Design project, and manage associated data and hardware.	3
M26	Advanced Administration	An extremely useful supplement to M25 Basic Administration, this course covers how to control database access in line with increasingly stringent quality control requirements.	2
M27	Isometric Administration	A further skill within the piping discipline, to build upon existing PDMS piping and isometric skills, this course will enable the attendee to create and control project specific isometric requirements.	2
M28	Drawing Administration	Attendance on this course will enable the user to create and control drawings' standards.	3
M29	Auto Drawing Production Administration	A natural extension to M28 Drawing Administration, this course will enable the attendee to setup and maintain procedures for automatic production of engineering drawings.	1
M30	Pipe Stress Interface	This course will enable the attendee to build on their existing PDMS HVAC skills to learn how to setup and maintain procedures for automatic production of HVAC and cable tray drawings.	1
M31	Multi-Discipline Support	This course will enable the attendee to setup and maintain the use of MDS.	1
M32	Template Joint Design	This module augments the skills developed on the Structural Catalogues & Specification module to produce template joints and fittings for producing details Material Take Offs.	4
M33	Programmable Macro Language (PML)	The attendee will understand how VANTAGE Plant Design applications work, will be able to introduce company specific forms and menus and generate their own objects with this object orientated software.	5
M34	Global	The attendee will understand how Global works and the requirements of the IT infrastructure.	2

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M35	Lexicon	The attendee will understand how to create additional attributes for any VANTAGE Plant Design database element.	1
M36	Propcon	The attendee will understand how component engineering data is included and used with piping and structural specifications.	1
M37	Review	Demonstrates how to use Review for design assessments, checking, simulation of building and modifications, and presentations.	1
M38	Interfaces	There are a number of interfaces and the attendee will understand how the specific interface of interest works and its limitations.	1
M39	HVAC Administration	This module develops the skills for creating and manipulating HVAC Administration in VANTAGE PDMS.	1
M40	Model Object Manager Design	This module provides the necessary skills for designers expected to use the VPD Model Object Manager application (MOM). MOM enables the designer to build and control the status of 3D objects from the line, equipment and instruments list data help in VPE Workbench.	1
M40a	Model Object Manager Administration	This module provides the necessary skills for administrators expected to implement and support the VPD Model Object Manager application (MOM). MOM enables the designer to build and control the status of 3D objects from the line, equipment and instruments list data help in VPE Workbench.	1
M41	Clash Manager Design	This module provides the necessary skills for designers expected to use the VPD Clash Manager application (CM). CM enables the designer to check the clash status of any 3D design item. The application provides the central repository for clash history data for all project disciplines.	1
M41a	Clash Manager Administration	The module provides the necessary skills for administrators expected to implement and support the VPD Clash Manager application (CM). CM enables the designer to check the clash status of any 3D design item. The application provides a central repository for clash history data for all project disciplines.	1
M42	Deliverable Manager	This module provides the necessary skills for anyone expected to administer and produce deliverables using VPD Deliverable Manager (DM). DM provides a mechanism for producing and controlling deliverables such as isometrics, equipment drawings and pipe support details.	1
M43	Connectivity Manager User	This module provides the necessary skills to enable the pipe designer to build and associate 3D objects from the 2D engineering data. Engineering data arrives in VPE Workbench from the VPE P&ID application. Connectivity Manager allows the designer to compare the consistency of the 2D and 3D data.	1
M43a	Connectivity Manager Administration	This module provides the skills for the VPD administrator to configure CYM for the production project. It covers all aspects of product configuration to tailor the application to suit a given project's requirements. Before undertaking this training course the administrator MUST have undertaken the 1 day Connectivity manager user training, Module M43.	1