Line #	Description	Qty
1	**AlluraClarity FD10C**	1

The AlluraClarity FD10 (Ceiling) single-plane cardiovascular system comprises a ceiling mounted G-arm stand and digital imaging X-ray system for cardiovascular diagnostic and interventional procedures.
ClarityIQ technology is the foundation of AlluraClarity systems touching every part of the imaging system.

ClarityIQ incorporates powerful state-of-the-art image processing technology, developed by Philips research, all working in real-time enabled by the latest computing technology:

- -Noise and artifact reduction, also on moving structures and objects
- Image enhancement and edge sharpening;
  - Automatic real-time patient and accidental table motion correction on live images.
- Flexible digital imaging pipeline
- ClarityIQ systems have a flexible digital imaging pipeline from tube to display that is tailored for each and every application area such as Cardio or Neuro. This gives the flexibility to select virtually unlimited application-specific configurations.
- With ClarityIQ over 500 system parameters are fine-tuned for each application area; the result of years of Philips clinical leadership. It is now possible to filter out more X-ray radiation, use smaller focal spot sizes, shorter pulses, thereby fully utilizing the unique capabilities of the Philips MRC X-ray tube.

 The AlluraClarity FD10 system uses an integrated single-host concept. The system is comprised of five functional building blocks: Geometry, X-ray Generation, Image Detection, Viewing, and User Interface. Each functional building block is explained in further detail including accessories.

GEOMETRY
The AlluraClarity FD10 Stand
The ceiling suspended geometry segment is comprised of the following features:
- A motorized, ceiling suspended Poly Diagnost G-arm, which can be ceiling rotated to allow a three-sided patient approach at maximum free floor space with full body coverage.
- All stand movements are motorized. The motorized and manual parking movement consists of ceiling rotation and a longitudinal movement. The counterbalanced Dynamic Flat Detector can also be positioned manually or motorized. Angulation and rotation of the Poly-Diagnost G-arm are motorized at high speeds.
- Parking and longitudinal movement of the Poly-Diagnost G-stand, can be performed either manually either motorized. The longitudinal movement comprises electronic auto-stop positions, to facilitate positioning in the iso-center with ease and accuracy.
- Single operator control of stand parking or longitudinal positioning provides motorized base rotation at 12 degrees per second from +90 to -90 degrees, and motorized longitudinal movement at 15 cm/s over a maximum range of 260 cm.
- The projection angles for the Poly-Diagnost G-arm in the head position (orientated parallel to the table) are:
  - Rotation 120 degrees LAO to 120 degrees RAO
  - Angulation 45 degrees cranial to 45 degrees caudal

- Motorized stand movements are variable speed with a configurable maximum speed, allowing:
  - rotation speed up to 25 degrees per second
  - angulation speed up to 18 degrees second
- The depth of the Poly-Diagnost G-arm is 105 cm.
- The stand features BodyGuard capacitive sensing collision avoidance for patient protection.
- The variable source image distance range between the x-ray tube foci and the Dynamic Flat Detector input screen is 86.5 to 123 cm.

Patient Support
Xper Table

- Patient support provided with a flat carbon fiber tabletop
- Tabletop length of 319 cm and tabletop width of 50 cm
- Floating tabletop movement of 120 cm longitudinal and 35 cm transverse
- Motorized height adjustment from 74.5 to 102.5 cm
- Maximum cantilever of 223 cm , for full patient coverage
- Maximum patient weight 250 kg plus 500 N for CPR (or 225 kg plus 1000 N) in any longitudinal position of the table top
- Xper Geometry and Imaging Modules for exam room controls.
  - The operating modules can be attached to either side of the table.

Patient Support Accessories

- Three rail accessory clamps
- Mattress pad
- Translucent catheterization armrest
- IV Pole
- Set of Cable Holders
- Set of Arm Supports (FCV0248)
- Arm Support (FCV0258)
- Patient straps
- Table-mounted radiation shield
- Antifatigue Mat with Philips logo

X-RAY GENERATION
The AlluraClarity FD10 comprises an integrated dedicated X-ray system, micro-processor controlled 100kW generator, based on high frequency converter technology. The user interface control of this X-ray Generator is incorporated into the Xper module, Xper Desktop Console, and the Xper on-screen displays.

The Velara CFD generator comprises:
- Voltage range is 40 - 125 kV.
- Maximum current 1250 mA at 80 kV
- Maximum continuous power for fluoroscopy: 2 kW for 8 hours, 2.4 kW for 0.5 hour.
- Program selection
- Acquisition frame rates 3.75, 7.5, 15, 30 frames per second
- Pulsed fluoroscopy frame rates 3.75, 7.5, 15, 30 frames per second.
- Minimum exposure time of 1 ms.

- Automatic kV and mA control for optimal image quality prior to run to safe dose
- An X-ray collimator with single semi-transparent wedged filter with manual and automatic positioning.
- SpectraBeam filtering of low energy radiation to optimize image quality and dose efficiency with the MRC-GS 0508 X-ray tube.
- Xper Beam Shaping, which means that, both shutters and wedges can be positioned on the Last Image Hold without the need for X-ray radiation.

Fluoroscopy
- Three programmable fluoroscopy modes can be selected from the Xper Imaging T.S.O. Each mode has a different composition of dose rate, pulse speed, filter setting, and image processing (noise reduction, adaptive contour enhancement, and adaptive harmonization).
- Xper Fluoro Storage, a grab function allows storage and archiving of a single fluoro frame or the last 20 seconds of fluoroscopy. These images or runs can be archived as a regular run.

X-ray Tube
The AlluraClarity FD10 includes a Maximus ROTALIX Ceramic tube assembly MRC-GS 05 08 and cooling unit CU 3101 for cardio-vascular systems. Comprising:

- 0.5/0.8 mm nominal focal spot values maximal 45 and 85 kW

IMAGE DETECTION
The Allura Clarity FD10 comprises the following image detection chain:
- A 25 cm (10 in.) diagonal triple-mode Dynamic Flat Detector. It comprises a 6"/8"/10" triple mode Dynamic Flat Detector
- The outer detector box diameter is 37 cm diagonal square
- The digital output of the Flat detector is a 1024 x 1024 matrix at 14 bit depth and the detector pixel pitch is 184 micron by 184 micron
- The DQE (0) is 75% providing high conversion of X-ray into a digital image, while maintaining a high MTF.

VIEWING
The AlluraClarity FD10 comprises the following components in order to display the clinical images in the control and examination rooms:

Displays

Examination Room
Two 18-inch monochrome LCD monitors
- 18-inch monochrome TFT-LCD display
- Native format 1280x1024 SXGA
- 10-bit gray-scale resolution with gray-scale correction

These monitors are not delivered when FlexVision XL, EP Cockpit or EP Cockpit XL is selected.

The monitor ceiling suspension in the exam room can be configured to accommodate 3, 4, 6, or 8 LCD monitors and includes motorized height adjustment. The height adjust feature is dependent on the room ceiling height. When FlexVision XL, EP Cockpit or EP Cockpit XL is selected the monitor ceiling suspension is configured for one of those options.

- The first reference channel is for the display of reference images or runs, controlled by infra-red remote-control Xper Viewpad.
- The On-Screen Display provides status information on stand rotation, angulation, display of system messages, X-ray tube load status, selected fluoroscopy mode, selected detector Field of View, and both the rate and accumulation of the dose area product and skin dose.

Control Room
One 19-inch color LCD monitor

- 19-inch color TFT-LCD display

Control Room
One 18-inch monochrome LCD monitor
- 18-inch monochrome TFT-LCD display
- Native format 1280x1024 SXGA
- 10-bit gray-scale resolution with gray-scale correction

These control room monitors are not delivered when EP Cockpit or EP Cockpit XL is selected.

Acquisition
The acquisition segment coordinates the parameters for automatic exposure control. The program is selected via the Xper module or Xper Desktop Console.

This AlluraClarity offers a storage capacity of:
- 100,000 images at matrix size of 1024 x 1024, 10-bit
- Maximum number of examinations is 999, with no limit to the maximum number of images per examination

Xres Image Processing and SPIRIT
- Xres is a multi-resolution spatial temporal noise reduction and edge enhancement filter. It exploits the full benefits of the digital detector to enhance sharpness and contrast and to reduce noise in the clinical images. The settings for both Xres and SPIRIT can be customized with regard to the image quality.
- SPIRIT harmonizes the background of clinical image to provide excellent visualization of coronary arteries projected in complex projections, such as arteries projected over the diaphragm or spine.

USER INTERFACE
Xper is comprised of three elements: 1) Xper Settings, which customizes the system to each user preferred settings; 2) Xper User Interface 3) Xper Integration, which makes advanced integration functionality available such as DICOM Query / Retrieve, background archiving, and Xper Fluoro Storage.

The Xper User Interface comprises a range of User Interface modules in the Examination Room, including On-Screen Display.

On-Screen Display

- X-ray indicator and X-ray tube temperature condition
- Gantry position in rotation and angulation and Source Image Distance
- Detector field size display

- Selected Frame speed
- Fluoroscopy mode
- Integrated fluoroscopy time
- Stopwatch
- Skin Dose: dose rate with X-ray, cumulated dose with no X-ray
- Dose Area Product: dose rate with X-ray, cumulated dose with no X-ray
- Graphical bars for indication of Body Zone specific dose rate and accumulated skin dose levels, related to the 2 Gy level

Remote Intercom
A separate intercom, which is connected independently from the system that allows separate placement of the intercom at the preferred working position in the control room and examination room.

Xper ViewPads
The Xper ViewPad contains the preprogrammed function settings. The system is provided with two Xper ViewPads. The following functions are provided:

- Run and image selection
- File and run cycle
- File overview
- Store to Reference image file
- Copy image to photo file
- Digital (fixed) zoom and panning
- Recall reference images, which means switching control of Xper ViewPad function from live to reference monitor
- Laser pointer, intended to point at regions of interest on the imaging monitors
- LED indication of laser pointer on/off and battery low

Tableside Modules
One Xper Module is provided for use at either the tableside or in the control room. This module uses a touch screen, which can be operated when draped with sterile covers. The Xper Module contains the following functionality:
- Acquisition settings
- Selection of Xper Setting allows the user to set frame rates and x-ray generation settings applicable for the type of the preferred intervention
- Automatic positioning recall to allow the stand position to match the reference image.
- Image Processing

The Xper Geometry T.S.O. module can be positioned on all sides of the patient table, while keeping the button operation intuitive. The Xper Geometry T.S.O. provides the following functionality:
- Tabletop float and table height position
- Source Image Distance selection
- longitudinal movement of the Gantry along the ceiling
- Gantry rotation in an axis perpendicular to the ceiling
- Store and recall of two scratch gantry positions including SID
- Emergency stop button

The Xper Imaging T.S.O. module can also be positioned at three sides of the patient table, while keeping the button operation intuitive. The Xper Imaging T.S.O. provides the following functionality:

- Fluoroscopy Flavor selection defined per Xper Setting
- Shutters and Wedge positioning
- Xper Fluoro Storage and Grab
- Selection of the Detector field size
- Shutters positioning
- Reset of the fluoroscopy buzzer

Pan Handle (NCVA081)
The Pan Handle is an extension of the control facility for floating movements of the table top.

Control Room
The control room comprises an Xper Review Module, a keyboard, a mouse. The Xper Review Module offers the basic functions for review. The Xper Review Module contains the following functionality:

- Power on/off
- Tagarno wheel to control the review of a patient file
- File and run cycle
- Contrast, Brightness, and Edge enhancement settings
- File, Run, Image stepping and run and file overview
- Delete run
- Image invert and digital zoom
- Reset fluoroscopy timer and enable/disable X-ray

System information is displayed on the bottom of the data monitor:

- Stopwatch and Time
- System guidance information
- Dose Area Product (DAP), Skin Dose, and accumulative dose
- Frame speed settings, fluoroscopy mode, and accumulated fluoroscopy time
- Exposure and fluoroscopy settings as Voltage (kV), Current (mA) and pulse time (ms)
- Geometry information as rotation, angulation, and SID

The workflow is divided in scheduling, preparation, acquisition, review, and archive.

Scheduling
The patients can be added, listed and selected per date, physician, and intervention type. Previous DICOM patient studies can be uploaded with the DICOM Query Retrieve function.

Patient management protocols are flexi ble and allow for multiple studies to be selected under one patient identification number. This means that new studies can be appended to an earlier patient file. Furthermore, each study can contain multiple examinations to allow for split administrative purposes. Each examination contains multiple files, i.e. acquisition file, reference file, and QA results file.

Preparation
The preparation page provides the information of the room and patient preparation of each individual physician. The preparation page is customizable per Xper Setting and allows each physician to provide his or her own room protocols.

Acquisition

The acquisition page contains information on the current selected patient.

Review

The review page allows for reviewing of patient's:
- Previous examination cases
- Review of other DICOM XA or DICOM SC studies.

Radiation Dose Structured Report

Collection of dose relevant parameters and settings and export to a DICOM database (e.g. PACS, RIS), according IEC60601-2-43, 2nd Edition.

The reported data can be used for, for example:

- Quality improvement: evaluating trends in X-ray dose performance per facility, system and operator.
- RDSR enables analysis of average dose levels & variance for routinely performed exams and procedures.
- Typical system usage can be extracted from the data.

Archive

Continuous Autopush (NCVA090)

Continuous Autopush is an archive accelerator which ensures that background archiving continues with minimal disruptions.

Clinical studies can be archived to a CD or a PACS. The archive process can be completely automated and customized with Xper Settings. Parameters like multiple destinations and archive formats can be selected to the individual needs.

The Xper DICOM Image Interface enables the export of clinical images to PACS. The export formats are based on DICOM 3.0 protocols. The system exports clinical studies in Cardiac DICOM XA Multi-Frame or DICOM Secondary Capture formats.
- The export format is configurable in 512x512 or 1024x1024.
- The examination can be sent to multiple destinations for archiving and reviewing purposes.
- The Xper DICOM Image Interface provides DICOM Storage and DICOM Storage Commitment Services.
- The DICOM Query/Retrieve function allows older DICOM XA MF and DICOM SC studies to be uploaded in the system. Furthermore, additional information can be appended to a study, while keeping the patient identification the same.

Clinical Education Program for Allura Systems

Essentials OffSite Education: Philips will provide up to two (2) Cardiovascular Technologists, Registered Technologists Registered Nurses, or other system operator as selected by customer, with in-depth didactic, tutorial, and hands-on training covering basic functionality and work-flow of the cardiovascular imaging system. In order to provide trainees with the ability to apply all fundamental functioning on their system, and to achieve maximum effectiveness, this class should be attended no earlier than two weeks prior to system installation.

In the event that an EP Navigator workstation has also been ordered, the offsite training course will be tailored to focus on the electrophysiology functionality of the FD system and the EPN workstation.

In the event that your main FD system will be dedicated to Cardiac applications your offsite training course will be tailored to focus on the Cardiac functionality.

This twenty-eight (28) hour class is located in Cleveland, Ohio, and is scheduled based on your equipment configuration and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. This class is a prerequisite to your equipment handover OnSite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. **Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292102 (CV Full Travel Pkg OffSite) is purchased with all OffSite courses.**

Handover OnSite Education: Philips Education Specialists will provide twenty-eight (28) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 28 hours, and must include the two OffSite education attendees. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. **It is highly recommended for systems that are fully loaded or for customers with a large number of staff members to also purchase 989801292099 (CV Add OnSite Clin Educ 24h).**

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref# 106107-110915

2	**System is AlluraClarity**	1

3	**DAP meter monoplane**	1

This option provides a physical DAP meter device for the Allura systems to enable DAP (Dose Area Product) measurement instead of the standard used DAP calculation.

The DAP meter consists of an Ionization chamber which measures the amount of radiation (Air Kerma rate) during all diagnostic X-ray examinations.

4	**Prep table for Table Mount inj**	1

This is only applicable when the Mark 7 Arterion Table Mount injector will be ordered locally. Prepared for Table Mount Injector prepares the XperTable with the cabling needed for a Table Mount install of the MEDRAD Mark 7 Arterion injector head. This preparation will facilitate the install of the Table Mount injector system. It will save an estimated 4 - 8 hours of installation time. The injector base unit can be placed in the technical room, and User Interface and display can be placed in the control room or on the wall of the exam room.

5	**HeartNavigator R1**	1

Performing a structural heart procedure can be a breath-taking and tense intervention. HeartNavigator Release 1 provides support in planning of the procedure and additional live image guidance during the procedure. Previously acquired DICOM cardiac CT-datasets can be used as input. The CT-dataset can be presented in 3D and overlaid with the live-fluoroscopy to provide 3D real time insight during the procedure.
Planning:
DICOM Cardiac CT dataset can be used for the determination of the optimal intervention strategy. Optimal view planes for the X-ray device can be programmed with CT data. Furthermore, HeartNavigator Rel.1 is able to automatically segment anatomical structures, landmarks and planes out of DICOM cardiac CT-datasets. Different tools are available to help the user with the planning:

- Different anatomical visualization tools can be selected to visualize the desired anatomical structures

- Different anatomical landmark points are available to help the user to better understand the orientation and positioning of devices
- Different sizes of virtual devices which can be selected and projected on the CT data to give a reference on how the device would fit the patient

Image Acquisition en Procedure Execution:
During live image guidance HeartNavigator can be fully operated from table side using the XperModule. The user can overlay the acquired images on the 3D reconstruction of HeartNavigator.
The bidirectional link between the X-ray system and HeartNavigator allows the user to select the optimal stand position for the procedure in two ways. 3D Automatic Position Control allows the gantry to automatically move to the projection shown on the HeartNavigator monitor. 3D Follow C-arc allows the overlay to remain in sync with the 2D projection, automatically adjusting the viewpoint as the gantry is repositioned. Different visualization options are available like 3D volume and vessel outline to select as overlay.

Clinical Education for Heart Navigator:

iXR Heart Navigator OnSite Education: Philips Education specialist will provide sixteen (16) hours of education for up to (4) students selected by the customer . The Physicians performing the procedures are required to be part of the training session. CEU credits may be available for each participant that meet the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient ready. Philips personnel are not responsible for actual patient contact or operation of the equipment during the educations sessions except to demonstrate proper equipment operation.

iXR Heart Navigator OnSite Live Case Follow Up Education: Philips Education Specialist will provide twenty -four (24) hours of education for Physicians and staff for live case use of the Heart Navigator software. This will be a follow up visit to the initial training of the Heart Navigator software. It is required that Live Valve implantation studies be performed during this education session. No CEU credits will be available for this session. Please refer to guidelines for more information. Note: Site must be patient ready. Philips personnel are not responsible for actual patient contact or operation of the equipment during the educations sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref # 694698-20110915

6   **MultiSwitch.**   **1**
MultiSwitch/Xper Window Switch

MultiSwitch is an option that provides the ability to share the Xper workspot in the Control Room with other applications that are loaded on separate PC modalities.

The MultiSwitch option allows switching of the (colour LCD) data monitor, keyboard and mouse, normally connected to the Allura Xper system, to a separate PC modality.

Thus saving significant space in the control room as only one monitor and keyboard is used for multiple applications.

Applications that are loaded on this PC modality, will run independantly of the Allura Xper system, operated from the Xper workspot in the control room. Obvious example PC applications from PMS are Xcelera, Xcelera CLM, 3D RA, StentBoost, Viewforum.

In addition to the Allura Xper system, up to three separate PC modalities can be connected to MultiSwitch. If these PC modalities are also connected to an Ethernet Network, the ethernet connection will also be switched by MultiSwitch.

The requirements of the PC modality that is connected to MultiSwitch,and the applicable applications are:

- maximum resolution for the colour LCD display: 1280*1024 VGA
- PS/2 keyboard- and mouse interface
- complies with UL60950 regulations and EMC level A

The maximum power supply requirement for three PC modalities (incl accessoiries) in total should not exceed 1400 Watts@230 VAC.

The MultiSwitch option comprises:

- KVM Switch box (4 inputs, 1 output)
- Ethernet switch (3 inputs, one output)
- 5 ea cable sets for keyboard, mouse and VGA
- 3 ea power cables for the PC modalities and one power cable for the ethernet switch
- 4 ea ethernet cables

The Xper Window Switch is an option that provides the ability to integrate networked functionality in the Control Room of the Allura Xper Flat Detector system. The Xper window switch provides the possibility to switch to CIS/RIS applications that are available on the network and are basically data-only oriented.

Xper Window Switch to any RIS/CIS

The Control Room workspot can be switched to the hospitals' Cardiology/Radiology Information System. Only the user-interface devices Data Monitor, Keyboard, and mouse are switched via standard available solutions: "X-window", and "HTML browser" to become a standard UI for the RIS/CIS system.

This option is a software key which enables the specific Xper switch functionality for only the applications, which are available on site.

Compatible with:
- . Allura Xper FD10 R.3
- . Allura Xper FD10/10 R.2

Xper Live/Ref Slaving

The Xper Live/Ref Slaving will enable the option to slave the
Live or Ref video source from the Allura Xper. The total amount of
 Xper Live/Ref Slaving that can be selected is max 4.
Xper Live/Ref Slaving is possible:
- In Control Room icw FCV0011(B/W monitor in Control Room)
- In Philips MCS (additional monitor excluded from this option)
- Icw FCV0519 1 or 2 MCS from Skytron/Steris

8   RIS / CIS DICOM interface   1

This package allows communication of the Allura Xper system with a local information system
(CIS or RIS). The interface uses the DICOM Worklist Management (DICOM WLM) and Modality
Performed Procedure Step (DICOM MPPS) standards.

If a hospital has an Allura Xper system and an information system it can receive patient and
examination request information from the information system and report examination results in
order to:

-Eliminate the need for retyping patient information on the Allura Xper
-Prevent errors in typing patient names and registration numbers (ensuring consistency with IS
information to prevent problems in archive clusters ortosearch fora name in case of later retrieval)
-Inform the IS about the acquired images and radiation dose

Upon request from the Allura Xper system the complete worklist with all relevant patient and
examination data is returned from the IS to the Allura Xper system. For each patient the following
information will be shown on the Allura Xper after it has been retrieved from the IS:

Patient Identification:

- Patient name
- Patient ID
- Birth date
- Sex

    Examination/Request Information:
- Accession number
- Scheduled procedure step start time
- Scheduled performing physician's name

    It is possible at all times to enter patient demographics information manually within the
    Allura Xper system in case of an emergency or in case the local Information System
    connection is down.

    On request of the clinical user the Allura Xper will report the following information about the
    selected patient to the IS:
    Patient Identification:
- Patient name
- Patient ID
- Birth date
- Sex

    Examination/Request Information:
- Accession number

- Performed procedure step status start/end date and time
- Performing physician's name
- Referenced image sequence

Radiation dose:
- Total time of fluoroscopy
- Accumulated fluoroscopy dose
- Accumulated exposure dose
- Total dose
- Total number of exposures
- Total number of frames

Further detailed information can be found in the Allura Xper DICOM Conformance Statement.

The interface requires an EasyLink (hardware and software) if the IS is not compliant withDICOM Work List Management and Modality Performed Procedure Step.

9   **Lab Reporting**   **1**

Lab Reporting allows the user to generate and print simple reports in modality stand-alone situations. The user is able to incorporate free text and clinical images. The reporting functionality is suited for local printing and email. Part of the report is generated automatically from administrative data (e.g. patient/exam data hospital name) and required data (e.g. run-log dose information and event-log).

10   **Aut Pos Contr Xper sys & table**   **1**

This Automatic Position Controller (APC) combines APC for Allura Xper FD10
and FD20 systems with table APC.
System APC provides two modes of operation:
Preset Position Sequence: the sequence of projections is
determined through personnalized Xper Settings. Each set
contains a maximum of 10 positions. Positions can be recalled in
sequence or directly. The projection sequence comprises rotation
angulation and SID settings related to the selected reference
image.
Reference driven positioning: The projections on the reference
monitors can be recalled with the push of a button. The reference
driven positioning recollects the C-arm rotation angulation Flat
detector image format and SID.
Table APC
The Automatic Position Controller (APC) for the table provides
two modes of operation:
Auto positioning. The tabletop position and table height will be
adjusted automatically to the pre-defined default point of interest.
This to save time and x-ray dose at the start of an exam or for
setting up the system for rotation scans.
Store/recall of a position of the table top. This includes the
height-, longitudinal- and lateral position of the table top.

11   **Rotational Scan**   **1**

Rotational Scan provides real-time 3D impressions of complex vasculature and the coronary artery tree. It acquires multiple projections with just one contrast injection.

Rotational Scan can be used during screening procedures to quickly determine the optimal projection for the study as the angle (rotation/angulation) of the projection is indicated on each image.

Compared with traditional angiography Rotational Scan can save considerable time dose and contrast while providing image detail required for diagnostic and therapeutic decisions.

Rotational Scan is possiblewith the Allura Xper systems in the side position (ceiling mounted systems) and in the head position which provides the flexibility to perform procedures virtually from head to toe.

With Allura Xper FD20

C-arm in side position:

- Max. rotation speed: 30°
- Max. rotation angle: 180°

C-arm in head position:

- Max. rotation Speed: 55°
- Max. rotation Angle: 305°

With Allura Xper FD10:

Poly G in side position (ceiling version):

- Max. rotation Speed: 30°
- Max. rotation Angle: 90°

Poly G in head position:

- Max. rotation Speed: 55°
- Max. rotation Angle: 240°

Maximum speeds are given by the framespeed specifications of the system configuration.

The speed and range of rotation are the highest available (see table). The very high speed allows using less contrast whereas the very wide rotation range provides a complete evaluation of the anatomy.

The stand is designed forvery high mechanical stability. It offers precise positioning and high reproducibility assuring you of high quality images and excellentstudies.

Operation of Rotational Scan is extremely easy. The procedure is selected set up and executed virtually within a matter of seconds supporting the highest patient throughput. A set of dedicated acquisition programs is available on the Xper Module and can be selected at the touch of a button.

The rotation endand start positions are easily selected. The procedure is controlled from theexposure hand

- or foot-switch.

| 12 | **Xper Swing** | 1 |

XperSwing allows dual-axis rotational coronary angiography to gather more information in less time and with less X-ray and contrast dose. XperSwing acquires simultaneous RAO/LAO cranial-caudal views in just one acquisition run by moving the C-arm in a curved trajectory instead of multiple acquisitions. XperSwing can be used during screening procedures to quickly determine the optimal projection for the study as the angle (rotation/angulation) of the projection is indicated on each image, providing image detail required for diagnostic and therapeutic decisions and to obtain a real-time 3D impression of the coronary artery tree.

In total seven pre-programmed trajectories are available:
• Three for Left coronary imaging
• Two for Right Coronary imaging,
• Two generic trajectories.
The choice depends on size and weight of the patient. These trajectories are designed to fully cover all conventional projections for a diagnostic coronary angiography. Rotation and angulation movements are combined in one complete scan trajectory, using the maximum rotation and angulation speed of the Allura Xper system. (55 resp 30 degr/sec). XperSwing is possible in the side position (ceiling mounted systems) and in the head position

XperSwing functionality includes, but is not limited to

• 15 frames per seconds acquisition to allows using of less contrast.
• Wide rotation range provides a complete evaluation of the anatomy.
• Precise positioning and high reproducibility, assuring you of high quality images and excellent subtraction studies.
• Set up and executed in a matter of seconds.
• Set of dedicated acquisition programs with the trajectories available on the Xper Module
• The rotation end- and start-positions can be selected.
• Acquisition procedure is controlled from the exposure hand or footswitch.

| 13 | **Digtal subtracted Angio** | 1 |

The DSA-option allows to extend the application functions with additional vascular studies. DSA features real-time digital subtraction at low frame speeds of 0.5, 1, 2, 3, or 6 frames per second. The DSA prgrams can be selected per Xper Settings.
It offers exposure technique for uncompromised image quality of subtracted images.
In addition, this option also allows subtraction on run basis (run-subtract), which can be applied in the Rotational Scan and Bolus Chase Subtract options

This function will comprise following functionality:

- Fluoro-Trace
- Fluoro-Subtract
- Exposure subtract on individual image or run basis
- Mask selection

- Landmarking
- Pixel shift

Compatible with:
. Allura Xper FD10 Rel 3 onwards
. Allura Xper FD10/10 Rel 2 onwards

14   **FD SmartMask**   **1**

SmartMask simplifies roadmapping procedures by overlaying a selected reference image with fluoroscopy on the live monitor in the exam room.
The reference image can be faded in/out with variable intensity, controlled from tableside.
SmartMask uses the reference image displayed on the reference monitor.
Any previously acquired image can be used as reference.

SmartMask facilitates pre- and post- intervention comparisons to assess treatment results

15   **FULL AUTOCAL**   **1**

The AutoCal option is a software package to be used in conjunction with quantitative analysis software packages. It provides an auto calibration procedure for an object to be analyzed that is placed in the iso-center. When the object to be analyzed (e.g. Left Ventricle Vessel Segment) is placed in the iso-center AutoCal avoids the need to:

- acquire an additional image series containing a sphere or grid for calibration purposes
- calibrate manually on a calibration object (e.g. catheter) displayed in the image or image series to be analyzed

16   **Ventricular Quant.Sw
          pkg(Xper)**   **1**

Left Ventricular Quantification Software Package. Software package for the analysis of single plane Left ventricular angiograms. Calculates the Ejection fraction and local wall motion parameters in different formats.

Functions:

- Various LV-volumes
- Ejection Fraction
- Cardiac Output
- Centerline Wall Motion
- Slager Wall Motion
- Regional Wall Motion
- Calibration routines

In addition the package allows manual measurements of line lengths (absolute and ratio's) and angulations. Multiple measurements in one image are possible.

Comprising:

- software license

Compatible with:
. Allura Xper FD 10 Rel 3 and FD10/10 Rel 2 onwards
. Allura Xper FD20 Rel 2, FD20/10 Rel 2 onwards

17   **Coronary Quant.Sw pkg(Xper)**   **1**

Functions:

- diameter measurement along the selected segment
- cross sectional area
- %-stenosis
- pressure gradient values
- stenotic flow reserve
- calibration routines

In addition the package allows manual measurements of line lengths (absolute and ratio's) and angulations. Multiple measurements in one image are possible.

Comprising:

- software license

Compatible with:
. Allura Xper FD 10 Rel 3 and FD10/10 Rel 2 onwards
. Allura Xper FD20 Rel 2, FD20/10 Rel 2 onwards

18   **Vascular Quant.Sw pkg(Xper)**   **1**

Functions:

- vessel diameter / stenotic index
- automated vessel analysis
- calibration routines

In addition the package allows manual measurements of line lengths (absolute and ratio's) and angulations. Multiple measurements in one image are possible.

Compatible with:

- Allura Xper FD10 Rel 3 and FD10/10 Rel 2 onwards
- Allura Xper FD20 Rel 2 and FD20/10 Rel 2 onwards
- Allura CV20 R1 onwards

19   **Xcelera on Xper Module**   **1**

This option integrates the Xcelera network application in the Allura Xpe
It allows operation of the Xcelera viewer with the Xper module in the examination room during an examination.
Display of Xcelera imaging in the examination room has to be arranged for the monitor ceiling suspension
with an additional monitor or with MultiVision (sharing an existing monitor).
Following Xcelera viewing functions are available on the Xper module:

- study selection
- replay control (start/stop/autocycle, run step, image step)
- Report selection (with page step, close report)
- image settings (adjust Contrast, Brightness, Edge enhancement) and reset to original settings

20   **2nd Xper Module pr**   **1**

The second Xper Module is equal to the standard Xper Module and provides touch screen control of displayed functionality.
The following functions can be made availabe providing the relevant commercial options have been selected:

- Acquisition settings
- Image processing controls
- Automatic position control (optional)
- Channel selection for MultiVision
- Quantitative Analysis controls (optional)
- Xcelera and ViewForum viewing (optional)
- Interventional tool controls (optional)
- Allura 3D-RA, Dynamic 3D Roadmap
- StentBoost, Allura 3D-CA
- XperCT, XperGuide
- XIM physiomonitoring controls (optional)

Comprising:

- Xper Module with Cabling
- Mounting materials
- Software

Connectivity:
A maximum of 3 Xper modules can be connected to the Allura Xper system:

- one Xper module can on the XperTable
- one Xper module in the control room
- one Xper module on the Xper Pedestal

Compatible with:
Allura Xper FD20 Rel.3
Allura Xper FD20/10 Rel.2
Allura Xper FD20/20 Rel.1

Power requirements: refer to system configuration.

21   **Xper PM5 on XperModule**   **1**

This option integrates Xper PM5 with the Allura Xper system.
It allows the physician and procedure staff to perform a complete hemodynamic study from tableside on the Allura Xper module.
The "Hemo" menu will contain a subset of the Xper PM5 features. The Allura Xper module interface acts as a remote control to the Xper PM5 system. Changes selected on the Allura Xper module will be displayed on the Xper PM5 system, all functionality for the selected functions are controlled within the Xper IM application.

Following functions are available from the Allura Xper Module:

- SNAP (Auto record)
- Obtain/Capture and store hemodynamic waveforms and ECG's
- Cardiac Output measurements
- Monitor scale and sweep speed
- NIBP measurement

22	**Cath Arm Support**	1

For brachial catheterisation and digital imaging technique
The support is made of X-ray transparent material with exception of the fixingclamp and pivots.

23	**Pulse Cath Arm Support**	1

Facilitates catheterization trough the pulse and provides room for placing catheterization instruments. It is a flat radio translucent board and is placed under the patient while a part projects at either the left or right side of the tabletop to support the arm.

Size: 100 x 85 cm
Material: carbon-fibre reinforced material

24	**Peripheral X-ray Filter**	1

Set of flexible x-ray filters to provide an uniform density in angiographic examinations of the lower peripheral area.
Comprising:
· one central filter, at the top edge provided with sizing markers at every 5 cm, length : 1 m
· two side filters, length: 1 m

25	**Pivot for table base.**	1

For angiographic- and interventional procedures of the upper peripherals.
Provides improved table access for patient transfer.
Allows pivoting of the table base around its vertical axes.
Pivot range from -90 degrees to + 180 degrees (or -180 to +90 degrees) with locked positions on 0, -13/+13 (facilitating arm-angiography) and -90/+90 and 180 degrees.

Comprising:

- pivot device with graduated scale to be mounted on the universal floor plate of the table.

Compatible with Xper Table

26	**Table top brake kit for the Xper Table**	1

The table top brake kit prevents the table top from floating in case of a power off situation.
A friction brake is applied to stop the longitudinal and lateral movement of the table top.

27   **Long mattress cardio**   **1**

Patient mattress, thickness 70 mm, length 3165 mm, width 500 mm

28   **CABLE CARRIER CS**   **2**

Additional carrier for suspension of cable hose from X-ray tube assembly or TV monitor.

29   **StentBoost sw Rel. 2.0**   **1**

StentBoost is a unique interventional tool to improve visualization of stents in the coronary arteries during interventions. This, Philips exclusive, innovative interventional tool produces a highly augmented image of a deployed stent in coronary arteries - while the catheter is still in place. The StentBoost image helps clinicians to make a thorough check of stent expansion, and see the position of stents in relation to other objects, like other stents, without the use of extra contrast or other 'expensive' consumables. This allows interventional cardiologists to immediately take any corrective action required while your patient is still in the examination room.
The way it works
StentBoost automatically detects the stent delivery markers image after image. In each image StentBoost aligns the markers with the markers of the previous image. By doing this all radiopaque material in the close proximity of the markers will be enhanced and items further away from the markers will be greyed out.
The result provides enhanced contrast of the environment surrounding the markers, including the stent, while background noise is faded out.
StentBoost Workflow

1. Image acquisition
StentBoost is based on a maximum of 40 frames out of a cine run. Depending on the frames speed this takes the user 2-3 seconds.

2. Image transfer
The run will automatically be transferred to the interventional workstation and show up in the StentBoost software.
The Real time link (NCVA590) is a unique option within the Allura Xper FD10 R.2 and Allura Xper FD10/10 and allows instant access to the StentBoost image.

3. Region of Interest definition
The StentBoost software shows the acquired run with a predefined Region of interest. With the region of interest user has to indicate where the markers of the stent delivery markers are located in the image run.

4. StentBoost
After definition of the region of interest, the user presses next and within seconds, the boosted image shows up on the screen.
A real time operation user interface is available with StentBoost, providing:

- Review of StentBoost runs, before and after processing
- Viewing tools like Brightness/Contrast, Pan and Zoom to optimize the image displayed
- Automatic stent delivery system marker identification
- Reliability feedback regarding the enhanced run
- Manual quality improvement; Manual correction possibility for marker identification
- View patient info like, Birth date, Gender, Patient ID, Exam ID, Exam date, Run date, Run time, Hospital name, Physician name, RAO/LAO
- Creation of exportable items:

- movies (AVI format)
- snapshots (jpeg format)
- The step 5, 6 and 7 are not mandatory.

5. Calibration
To create a StentBoost image no calibration is needed. For the measurement support tool four calibration methods are included:

- No calibration
- Auto calibration based on calibration data generated by the Allura Xper system when the autocall function is installed (MCV5681),
- Marker distance of the stent delivery markers,
- Catheter calibration

6. "Measurement"
"Measurement" an option within the StentBoost package supports the clinician in his/her decision-making in determining the percentage of remaining stenosis in the stent.

7. Archiving
Transfer to:

- Optional Hard Copy unit (DICOM Print)
- Optional third party station (snapshots images in DICOM Secondary Capture format)
- Any computer via a web server functionality with images in a standard file format (JPEG, AVI movies)
- One or multiple DVD's, CD-ROM(s) for easy archiving
- Store a subset of exportable objects (snapshots and AVI Movies) to a USB removable memory device.

8. StentBoost release 2.0 comprises:

- StentBoost release 2.0 Software Package
- User manual on compact disc
- Software release bulletin
- DICOM Conformance Statement
- StentBoost IQ verification Phantom

9. Compatible with:

- Allura Xper FD10 R 1.x
- Allura Xper FD20
- Allura Xper FD10 R. 2
- Allura Xper FD10/10

10. Pre-requisite for StentBoost R 2.0:

- Interventional Hardware (NCVA106)

The interventional tools hardware is the computer that enables the 3D interventional tools, it allows to import and view DICOM compatible data from other imaging modalities The interventional Hardware comprises at least a Harddisk containing operating system and application software.

31   **Real time image link**   **1**

Real Time digital image link to an off-line Allura Interventional Hardware station. This applies on the applications 3D-RA, StentBoost and 3D-CA on the Interventional Hardware. This dedicated digital link sends raw or processed image data (depending on the application) real time during monoplane exposures to the connected Interventional Hardware station, to allow instant results of the applicable reconstruction after the exposure run.

In biplane systems, this digital link is available for the frontal channel only.

32   **StentBoost Control for Xper**   **1**
                                              Module

Table Side Module functionality for Allura Xper FD20 used with StentBoost Release 1.0

For further improvement of interventional procedures efficiency, the physician has all StentBoost functionality needed at tableside available on the Xper module.

33   **FlexVision XL,Snapshot**   **1**

FlexVision XL is an integrated viewing solution designed to give
you full control over your viewing environment.
The FlexVision XL provides the ability to:
• Display information from up to 8 sources simultaneously (incl.
third party systems) on the Philips 56-inch color LCD in the Exam Room.
• Resize and/or enlarge information at any stage during the case.
• Select and customize viewing lay-outs of the Philips 56-inch
color LCD via the Xper table-side module
• Overview connected equipment (incl. third party systems) from
a single location.

The FlexVision XL consists of:
• DVI video composition unit.
o The DVI video composition unit allows the user to direct and switch the video output of all connected medical equipment to specific sub windows of the Philips 56-inch color LCD in the Exam Room.
o The DVI video composition unit is operated from the
Xper tableside module.
o The DVI video composition unit supports a wide variety of display formats (up to 1920x1200)
o Up to 9 external inputs are connected to the DVI video composition unit via Wall Connection Box(es).

• Medical grade, high resolution color LCD in the Exam Room
o This display supports the image quality requirements for
monochrome X-ray images as well as color images and replaces
all displays normally delivered with an Allura Xper FD or
AlluraClarity system for the Exam Room.
o Main characteristics are:
- 56 inch, 8 Megapixel color LCD
- Native resolution: 3840x2160
- Brightness: Max: 450 Cd/m2 (typical) stabilized: 350 Cd/m2
- Contrast ratio: 1200:1 (typical)
- Wide viewing angle (approx. 176 degrees)
- Constant brightness stabilization control

- Lookup tables for gray-scale, color and DICOM transfer function
- Full protective screen Ingress Protection: IP-21

• Large color LCD control (Xper Module)
o Resize and/or enlarge information at any stage during the case
via the Xper tableside module in the Exam or Control Room
o Select viewing lay-outs via the Xper table-side module in the
Exam Room
o Create new layouts by matching inputs to desired locations on
preset templates.

• Monitor Ceiling Suspension
o Monitor ceiling suspension for use in the Exam Room carries
the 56 inch color LCD, providing highly flexible viewing
capabilities. The monitor ceiling suspension is height-adjustable
and moveable along ceiling rails. It can be positioned on either
side of the table.

• Isolated Wall Connection Boxes
o Up to 9 Isolated Wall Connection Boxes can be connected to
FlexVision XL.
o Through Isolated Wall Connection Boxes, 3rd party equipment
can be connected to the FlexVision (DVI video composition unit).

The Wall Connection Boxes have Power, Grounding, Video (DVI), Network (RJ45) and
Keyboard/mouse (USB) connections.
The Wall Connection Boxes can be located in the Technical
Room, Control Room and/or Exam Room.
In case of an Equipment Rack: 1 x Wall Connection Box is
permanently placed on the Equipment Rack.

• Snapshot
o The snapshot function allows the user to store/save a
screen-capture of any image on the 56" display as a
DICOM Secondary Capture image to a connected PACS.
The snapshot-all function allows the user to store/save a
screen-capture for each displayed image in the Exam Room /
Control Room as seperate DICOM Secondary Capture images .

34   **Set of 2 additional 21in. LCDs   1**

Two 21inch additional displays are located on top of the monitor ceiling suspension frame which
carry the 56 inch large screen color LCD display.

These 2 additional LCD's can be used to display additional video sources or used as display back
up for Hemo and Xray Live images. These LCD's have a fixed content.

Main characteristics of back-up displays are:

- 21.3 inch, 2 Megapixel color LCD display
- Max. resolution: 1600x1200
- Brightness: 450 Cd/m2
- Contrast ratio : 550:1
- Wide viewing angle (approx. 170 degrees)
- Constant brightness stabilization control
- Independently selectable brightness settings for monochrome and color images
- Independently selectable lookup table for gray-scale, color and DICOM transfer function

FCV0587, "XPer Live/Ref Slaving" required when displaying X-Ray Live as back-up.

| 35 | 2ND REF for FlexVision XL | 1 |

2nd REF for FlexVision XL is optional on FlexVision XL. Second Ref images will be displayed on the large screen monitor.

| 36 | IXR Additional Training 16 Hours OnSite | 2 |

Clinical Education Specialists will provide sixteen (16) hours of CV OnSite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. CEU credits may be available for each participant that meets the guidelines provided by Philips. Note: Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. Education expires one (1) year from the earlier of equipment delivery date or purchase date.

| 37 | CV Full Travel Pkg OffSite | 2 |

Includes one (1) participant's airfare from North American customer location to Cleveland, Ohio, with lodging, ground transportation, and meal expenses. Breakfast/dinner provided by the hotel, and lunch/breaks are catered by Philips. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

| 38 | CV Physician's OffSite Education Pkg | 1 |

Philips will provide one (1) Cardiovascular Physician as selected by customer with an intensive, seven (7) hour, hands-on training geared toward the busy physician. This instructor-led course covers base functionality and work flow of the Cardiovascular imaging systems. Benefits of this class include helping the physician to increase productivity and patient throughput. The class is scheduled based on availability and equipment configuration, and is held at Philips state-of-the-art training facility in Cleveland, Ohio. Package includes tuition, meals and transportation, plus airfare and lodging which are coordinated through a Philips Travel Service partner. Entitlement expires one (1) year from equipment delivery date, or purchase date if purchased separately.

| 39 | CV 16h to 20h Travel Pkg OffSite | 1 |

Includes one (1) participant's airfare from North American customer location to Cleveland, Ohio, with lodging, ground transportation, and meal expenses. Breakfast/dinner provided by the hotel, and lunch/breaks are catered by Philips. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced.
 Education expires one (1) year from equipment installation date (or purchase date if sold separately).

40   **CV Addl Cardiac Essentials**   **1**
           OffSite Educ 20 Hours

Philips will provide one (1) Cardiovascular Technologists, Registered Technologists Registered Nurses, or other system operator as selected by customer, with a non-vascular, cardiac focused in-depth didactic, tutorial, and hands-on training covering basic functionality and work-flow of the cardiovascular imaging system including XperSwing and Stentboost.. In order to provide trainees with the ability to apply all fundamental functioning on their system, and to achieve maximum effectiveness, this class should be attended no earlier than two weeks prior to system installation. This twenty (20) hour class is located in Cleveland, Ohio, and is scheduled based on your equipment configuration and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. This class is a prerequisite to your equipment handover OnSite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292445 (CV 16-20 Hour Travel Pkg OffSite) is purchased with this course.

Education expires one (1) year from equipment installation date (or purchase date if sold separately).

41   **Airfare to Cleveland for**   **8**
           Biomed Training

Includes one (1) participant's airfare from North American customer location to the Cleveland Training Center (CTC) in Cleveland, Ohio. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Expires one (1) year from the earlier of equipment delivery date or purchase date.

42   **Food Transpt Lodging for**   **68**
           Cleveland Biomed Training

Includes one (1) day of modest lodging, ground transportation, and meal expenses in Cleveland, Ohio for one (1) attendee. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Although this part is only for one day, it is sold in multiple quantities to account for entire length of course. Expires one (1) year from the earlier of equipment delivery date or purchase date.

43   **XD3908EPCOCKPITNAVFLEX4**   **2**
           D

Course Number: XD3908

System Codes: 722010, 722011,722012 and 722013

Course Title: EP Cockpit, EP Navigator & FlexVision

Course Length: 4 days (excludes Saturdays, Sundays, and Philips holidays)

Delivery Method(s):   ILT

Modality: iXR

Location: PHC, CTC

Target Audience: Service Engineers.

 DESCRIPTION:
The EP Cockpit part trains the engineer to a technical and application level which will enable the engineer to do room preparation, mechanical and electrical installation, configuration and connectivity on the EP Cockpit parts of an Allura Xper FD system, following the System Manual Installation and Setting To Work.

The EP Navigator part trains the engineer to a technical and application level which will enable the engineer to do the Installation and the Setting To Work activities between the Allura Xper FD Cathlab, EP Navigator workstation and an Xcelera, following the Setting To Work.

The engineer will be able to connect an Allura Xper FD modality to the EP navigator who can retrieve the CT images of the patient from the Xcelera or 3D-ATG images from the Allura. The EP Navigator will match these reconstructed 3D images with the fluoroscopy images coming from the Cathlab.

The FlexVision part will train the engineer to a technical level which will enable the engineer to do the Installation, Setting To Work and Corrective Maintenance of the FlexVision option on an Allura Xper FD system according the Service Manuals.

All knowledge and skills for the configuration, connectivity and interoperability functions are practiced during the lab sessions.

PREREQUISITES:
 XD3971 or XD9065

 COURSE OBJECTIVES:

During this course the field service engineer will be provided with the needed competencies to install an Allura Xper EP Cockpit lab with an EP Navigator workstation & FlexVision 56" monitor.

The engineer will learn the following knowledge and skills:

Hardware Installation of the EP Navigator components
Installation of the EP Navigator Operating Software and Application Software
Configuration of an EP Navigator towards an Xcelera for query and import
Configuration of an Xcelera towards an EP Navigator for query and send
Configuration of a Real Time Output (RTO) link of a Cathlab towards the EP Navigator
Configuration of the Control network of a Cathlab towards the EP Navigator
Execution of the DICOM verification tests for Query and Import
Configuration of the Xper settings of the Cathlab for a correct automatic EP workflow with the Cathlab in application mode
Testing of the total workflow with all systems in Application mode
Mechanical /Electrical Installation Monitor Ceiling Suspension with FlexVision 56" monitor
Mechanical /Electrical Installation B-Cabinet
Configuration of the FlexVision 56" monitor
Adjustments of the FlexVision 56" monitor
Corrective Maintenance issues of the FlexVision 56" monitor

PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE

DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH PURCHASE OF AN ALLIANCE CO; OP AGREEMENT.) Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:
1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training

| 44 | XD3970ALLURAFD7.6PART1C TC9 | 2 |

Course Number: XD3970
System Codes: 722010, 722011, 722012, 722013
Course Title: Allura Xper Rel 7.6 Part 1
Course Length: 9 days (exclude Saturday, Sunday, and Philips holiday)
Delivery Method(s): Instructor-Led
Modality: iXR
Location: PHC, SLC, CTC
Target Audience: Service Engineers.
DESCRIPTION:
Part 1 trains the Customer Support engineer to a technical level which will enable him/her to perform Planned Maintenance (PM) and basic Corrective Maintenance (CM) on Allura Xper systems, according to the Customer Support philosophy. He / She will also be able to assist during a system installation.
 Part 1 can be followed up by part 2, intended for dedicated Cardio Vascular modality Engineers. Part 2 focuses on setting to work (configuration) and extended Corrective Maintenance.
The following Allura Xper systems are covered:
FD10 release 7.6
FD10/10 release 7.6
FD20 release 7.6
FD20/10 release 7.6
FD20/20 release 7.6

PREREQUISITES:
CS9020 BASIC NETWORKING
XC3002 X-RAY SYSTEMS BASIC PART 2

COURSE OBJECTIVES:
The engineer will learn how to:
 •Operate the system, as far as required to perform service tasks.
• Make use of the service documentation.
• Make use of basic functionality of the service tools.
• Perform Planned Maintenance:
 -Safety checks
 -Performance checks

-Adjustments
(Not included: Mechanical checks)
• Create a backup of the system.
• Perform a restore of the system.
• Perform basic CM with help of the service documentation and service tools.
-Faultfinding using the System Manual Corrective Maintenance.
-Focus on replacement of parts with a high exchange rate.
-Retrieve the log file from the system to escalate a problem.
• Customize positions for Automatic Position Control in the EPX-database.
MAJOR TOPICS:
Introduction Allura Xper systems
Operating
Service documentation
Service tools
Planned Maintenance
Corrective Maintenance
System Architecture
X-ray generation
Geometry
Operator controls
Power supply
Imaging
System control
Radiation safety
Image quality
Customization
Software
* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE
DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE
FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL
PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE
TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR
TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE
TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF
SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH
PURCHASE OF AN ALLIANCE CO; OP AGREEMENT.) Course dates and location to be finalized
by Philips. Philips shall attempt to accommodate Customer requested dates and training location.
The price quoted includes course tuition. Travel and living expenses are not included, but may be
purchased separately through Philips.

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold
separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training

Course Number: XD3974
System Codes: 722010, 722011, 722012, 722013
Course Title: Allura Xper Rel 7.6 Part 2
Course Length: 9 days
Delivery Method(s): Instructor-Led
Modality: iXR
Location: PHC, SLC
Target Audience: Service Engineers.

DESCRIPTION:
This course is a follow up on the Allura Xper Part 1 course and is intended for modality Engineers that specialize in Cardio Vascular.
3 months Field experience on Allura Xper systems is strongly recommended before attending this part 2 course, this means the engineer has done some installation, pm- and cm visits.

In part 2 the customer support engineer is trained to a technical level which will enable him/her to perform setting to work and extended corrective maintenance on Allura Xper systems, according the customer support philosophy.

Not covered are the Mechanical Installation and Cabling of the Allura Xper System.
These topics are covered in the e-learning: Allura Xper Mechanical Installation.

The following Allura Xper systems are covered:

FD10 release 7.6
FD10/10 release 7.6
FD20 release 7.6
FD20/10 release 7.6
FD20/20 release 7.6
PREREQUISITES:
•   XD3866 or XD3966 or XD3970
COURSE OBJECTIVES:
For Allura Xper systems, the engineer will learn how to:

Perform the setting to work, including:
Setting to work of Dicom Store and Storage Commit from Allura towards an Xcelera PACS as well as Setting To Work of the CWIS option towards an Xcelera and/or Hemodynamic system Xper Flex Cardio.
Customizing of common parameters of the Xper database.
Distinguish technical problems from incorrect operating.
Perform extended corrective maintenance; with help of analytical trouble shooting, service documentation and service tools.
Perform a Dicom traffic capture file, with help of the DVTK program (Dicom Network Analyzer), as part of the connectivity Fault Isolation Procedure for analyzing and if needed sending to helpdesk Image quality faultfinding using lower level IQ measurements.

Blue Anti-Fatigue Floor Mat w/ Logo

| 47 | **Rad Shield w/ Arm (Contoured) 61X76** | **2** |

Contoured Rad Shield with Arm rest. 61X76

| 48 | **PIVOTING TABLE-MOUNTED RADIATION SHIELD** | **1** |

Table-mounted radiation shield for additional protection of physician and staff against scatter radiation. The shield consists of two protective parts: a lower shield and an upper shield. The shield is specially designed for use with the AD5 patient table.

The table mounted radiation shield provides the following features:

- Mounting to either the right orleft tableaccessory rails;
- Pivoting into the required working position;
- Pivoting into the parking underneath the tabletop facilitating patient preparation;
- The upper shield can be positioned upright providing optimal protection or can be folded down for free access to the patient.

The table mounted radiation shield includes:

- Lower shield measuring 70 cm high 80 cm wide 0.5 mm Pbequivalence;
- Upper shield measuring 40 cm high 50 cm wide 0.5 mm Pbequivalence;
- Mounting clamp;

Docking device for wall mounting.

| 49 | **Cable Spooler** | **2** |

| 50 | **M LED 3MC Light** | **2** |

MAVIG M3 MC LED - Multi Color / power Supply Included
Includes Portegra2 Ext Spring Arm 75/90cm

| 51 | **Portegra 2 360 Ceiling Column** | **2** |

Portegra 2 360 Column w/ trolley and ceiling track

| 52 | **Mark 7 Arterion, Table Mount** | **1** |

The Mark 7 Arterion Injection System is the latest in MEDRAD's "Mark" series of angiographic injectors. Compared to earlier systems, the Mark 7 Arterion injector head is lighter and easier to use so you can focus more on the patient.
The clear and intuitive user interface guides you through proper set-up, and highlights the information you need to perform safe procedures.
Unique to the market, the front load system simplifies set-up and makes for a cleaner tear down.
The clear syringe provides a higher level of confidence that you are ready to inject.

Made from a clear material, the Mark 7 Arterion syringe (Catalog ART 700 SYR) allows you to easily view the inside of the syringe for smoother purging of air. And MEDRAD's famous fluid dots are still there to help-round for fluid, oval for air.
The table mount injector solution ensures the contrast injector is conveniently placed and always available when it is needed. It provides a clean workspace without occupying valuable floor space.
System includes:

- Table Mount
- display control panel
- 6 ft. coiled hand switch
- operation manual (CD)
- 10 ft. head cable
- syringe heat maintainer
- imaging system interface cable for the Allura / Allura Xper
- consumables starters kit

For the MEDRAD Mark7 Injector system Philips is only the distributor. MEDRAD provides the service as well as the application support of both versions unless stated differently in the Philips Service Agreement

System Specifications:

- Flow Rate 0.1-45.0 ml/s in 0.1 ml increments
- 0.1-59.9 ml/m in 0.1 ml increments
- Volume 1-150 ml in 1 ml increments
- Pressure Limit 100-1200 psi in 1 psi increments
- (150ml syringe) 689-8273 kPa in 1 kPa increments
- Rise Time 0.0-9.9 seconds in 0.1 increments
- Delay Time 0.0-99.9 seconds in 0.1 increments
- Fill Speed 1-20 ml/s
- Fill Volume 1-150 ml
- Syringe Size 150 ml
- Syringe Heat Maintainer 35 °C (95 °F) ± 5 °C (9 °F)
- Protocol Memory 40 Protocols
- Injection Memory History

53   **FlexVision XL 9 Input Package**   **1**

The FlexVision XL9 input package provides nine isolated wall connection boxes and nine legacy converters.

Isolated Wall Connection Box
This Isolated Wall connection Box facilitates connection of the video source via standard DVI cable/connector and lossless transfer of the video signal over the approximate 30 m cable distance. It can be mounted in the exam room or in the control room, depending on the location of the video source.

The quantity of the VWCB's has to be calculated as follows:

For each video signal to FlexVision XL on Cardiac System: 9 VWCB
Note:
No VWCB is required in case a video signal is connected directly to a dedicated LCD from the following sources:
1) Xper Live/ref Slaving
2) Interventional HW (XtraVision), ViewForum, Xcelera (only if workstations are powered by Allura Xper)
3)Xper IM

Legacy Video Convertor
The Legacy Video Convertor enables conversion from VGA towards DVI for supported input resolutions, as listed in the table below.

Signal type	Native resolution	Image Aspect Ratio
VGA	640x480	4:3
SVGA	800x600	4:3
XGA	1024x768	4:3
SXGA	1280x1024	5:4
SXGA+	1400x1050	4:3
UXGA	1600x1200	4:3
WXGA	1280x800	16:10 (8:5)
WSXGA	1440x900	16:10 (8:5)
WSXGA+	1680x1050	16:10 (8:5)
WUXGA	1920x1200	16:10 (8:5)
2K	2048x1080	19:10
TV1080I/P	1920x1080	16:9
TV 480I	720x480	4:3
TV 480P	704x480	4:3

54	**AD5 TO XPER TABLE ADAPT. PLATE**	**1**

55	**Turnkey Operation**	**1**

Turnkey Construction - Cath Lab

56	**Universal Power Supply**	**1**

Philips Power Solutions 25 kVA UPS for FD10 system.

57	**Trade in Allowance**	**1**

Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in.

Product: 722001 Allura Xper FD10 Ceiling
Serial Number: 519213
Manufacturer: PHILIPS HEALTHCARE

Trade-In authorization number: 26745

De-install Date: Not later than 180 days after receipt of Order

Customer will be trading-in equipment that is described on the attached System Disclosure Form (the "Trade-In"), which Trade-In the parties agree (i) will be removed on the De-install Date and (ii) is currently in the condition as represented on the System Disclosure Form. In addition, the parties agree as follows:

1. Customer represents and warrants that Customer has good and marketable title to the Trade-In as of the date of this Quotation and will have good and marketable title when Philips removes the Trade-In from Customer's site (the "Removal Date");
2. Title to the Trade-In shall pass from Customer to Philips on the Removal Date, unless otherwise agreed by Philips and the Customer;
3. Notwithstanding anything to the contrary in any Business Associate Addendum, Customer represents and warrants that as of the Removal Date all Protected Health Information will have been de-identified or removed from the Trade-In;

4. Philips may test and inspect the Trade-In prior to de-installation. If the condition of the Trade-In is not substantially the same on the Removal Date (ordinary wear and tear excepted) as it is identified on the System Disclosure Form, then Philips may reduce the price quoted for the Trade-In;

5. If the removal date is delayed until after the De-Install Date, unless Philips causes the delay, then Philips may reduce the price quoted for the Trade-In by six percent (6%) per month.

6. Philips is responsible for normal de-installation costs of the Trade-In.

7. The trade-in value will not include costs associated for any facility modifications and/or rigging required for de-installation and must be accounted for separately.

8. Customer is responsible for all plumbing necessary to properly drain coolant from chiller system and cap the lines.

9. Prior to the Removal Date, Customer shall remove from the room all equipment that is not being de-installed.

Line #	Description	Qty		

1   **Xper Flex Cardio Nurse Station**   **2**

The Nurse Station is a computer workstation that can be installed within the Cath Lab suite and offers an additional location from which to enter medication and nurses' notes data during procedures and sample pressures and other physiologic data. Nurse Station is also capable of controlling Xper Flex Cardio 2010. The Nurse Station communicates with a central database server for accessing and storing patient case procedure information.

Features:
-Remote workstation for procedure documentation
-Remote control of the Xper Flex Cardio 2010 or 2020
-Remote recording of hemodynamic samples
-Input conscious sedation data
-Point of care inventory management via documentation or manufacturer barcode (optional via Inventory)

Minimum Hardware included:
-XDS Workstation
-19" LCD Display
-Keyboard
-Mouse
-Patient cable kit
-Barcode reader

System Software included:
-Xper Information Management Hemo Control software for Workstation CPU
-Microsoft Windows XP Professional
-Symantec pcAnywhere
-Microsoft SQL Express Edition
Requires:
-Xper IM Data Center SW R1.5. Note: Existing networks to which a Flex Cardio is to be added will be upgraded to R1.5 at time of room installation
-XDS Wall Mount OR Rolling Stand

2   **Xper Flex Cardio Flex Cardio**   **1**
                                         2010
- Complete, pre-configured FC2010, geared for quick system repairs
- Device only (does not include installation cables or patient cables)

Monitoring Parameters:
- Four (4) invasive pressure channels
- 12 Lead ECG
- Respirations
- Body Temp
- NIBP
- SPO2
- Integrated Cardiac Outputs

| 3 | **Xper Flex Cardio Control Room** | 2 |

Xper Flex Cardio Control Room configuration is a physiomonitoring/hemodynamic system that is optimized for the cath lab environment. The system allows for monitoring the patient's vital signs as well as allows for hemodynamic measurements required during interventional procedures. This Control Room configuration consists of a signal acquisition unit that is installed within the procedure room and a computer workstation in the x-ray control room. This configuration is typically used within the cath lab, hybrid OR and multi-purpose labs where cardiac monitoring is required. User logins allow for networking to a central database server for archival of case procedure information. The system outputs the monitored signals to a boom display within the procedure room, while dual LCDs displays connected to the control room workstation can be used for all of the hemodynamic and information management functionality.

Software Features:
-Physiomonitoring, manual or automated entry of patient information in case details, sampling of waveforms, charting, hemodynamics
-Non-clinical functionality available via Xper Information Management modules loaded on the control room workstation

Xper Information Management modules included:
-Hemodynamic control software
-Charting for case procedure documentation
-Hemodynamic calculations
-Vitals capture
-Scheduler

Optional Features:
-FFR Measurement for Volcano or St. Jude
-End Tidal CO2 (Side Stream and/or Main Stream)
-16 Lead ECG
-ECG Analysis using Philips DXL Algorithm

Optional Modules:
-Xper IM Documentation Workflow Modules
-Xper IM Registries
-Xper IM Patient Status Viewer

Minimum Hardware included:
-Flex Cardio device (Model FC2010)
-Workstation
-Dual LCD Displays
-Keyboard
-Mouse
-Patient cable kit

Minimum Software included:
-Microsoft Windows 7 or greater
-Current version of Xper IM software for workstation
-PC Anywhere v12.5 or greater
-McAfee Antivirus

Monitoring functionality included:
-NIBP

-Respiration
-Temperature
-12-lead ECG
-SpO2
-Cardiac output (Thermodilution)
-Invasive pressures (4 channels)

Requires purchase of:
-Xper IM Data Center SW
-Table Mount
-4:3 LCD HQ Display
NOTE:
- Pressure transducers, or adapter cables, are not included.
- Contact: Fogg System Company
USA: 1-800-525-0292
http://www.foggsystem.com/

| 4 | Side Stream ETCO2 | 3 |

Incorporates Side Stream End Tidal CO2 monitoring capabilities to Xper Flex Cardio devices via external Philips Sidestream cable (M2741A)

- Monitoring accomplished via nasal canula.

Include:
-One box (10 each) disposable Adult CO2/O2 Nasal Canulas (M2750A)
-One box (10 each) disposable Pediatric CO2/O2 Nasal Canulas (M2751A)

| 5 | Xper IM Data Center SW with 1 CU License | 1 |

Data Center software is required when communication between devices is desired. One concurrent user license is included to facilitate accessing purchased workflow modules.

System Software included:
- Xper Information Management Data Center software
- Xper Information Management Client Software

Test Environment system software included:
- Xper Information Management Data Center software
- Xper Information Management Client Software
- Xper IM Connect Software
NOTE: Test environment for use on hospital provided hardware. This test environment can be used to test configuration changes prior to implementing in live environment.

Requires:
- Data Center Server Hardware, with appropriate Microsoft SQL 2008 processor license
- Client Workstation HW for Concurrent User License usage
- Test Server Hardware, if Test Environment desired

| 6 | Total Number Xper Concurrent User Licenses | 5 |

The quantity shown for this item indicates the TOTAL number of Concurrent Users customer would have after purchasing additional licenses offered within this proposal.

This total is derived by taking into account any existing concurrent users licenses the customer currently owns, and adding that number to the quantity being offered under a separate line item. For this reason the TOTAL number may be more than the quantity offered herein.

| 7 | **WF4 Xper IM Doc Wkflow Modules** | 1 |

Bundle of the following modules:

- Transcription
- Arterial Trees
- Custom Forms
- Inventory
- Data Analysis

| 8 | **Xper IM Concurrent User License** | 4 |

Xper Concurrent User licenses provide floating access to interact with a single server. While the quantity of clients is uncontrolled, the total number of concurrent user licenses available determines the maximum amount of simultaneous users on the network at any moment in time.
- Allows access to all purchased Xper Information Management workflow modules at networked workstations
- Hospital to provide network card(s), hub ports, cable to node(s), and implement installation of hardware

Requires:
- Client Workstation HW
- Data Center SW

| 9 | **Xper IM Registries** | 1 |

Data collection such as research data, ACC, customer designed collection. ACC screens are accessible when charting menus in a case. Registry data can be exported to a 3rd party vendor from these screens. Custom screens can be built and utilize for local, smaller registries.

Features:
- Collection of registry data from source charted information utilizing menus and scrapers
- HL7 export of data to 3rd party vendor

System Software:
- Registries module certificate

Requires:
- Xper Information Management Data Center software
- Export requires purchase of Discrete Clinical Data interface

| 10 | **Xper IM VA CPRS Integration** | 1 |

This product allows activation of ADT, LABS, Results, and Discrete Cli
Activation of additional interfaces requires additional purchase.

ADT - Captures ADT demographics information in HL7 format from hospitals' mainframe systems in real-time (compatible with third party systems such as Medi-Tech, Siemens, and others).

LABS - Captures LABS information in HL7 format from hospitals' mainframe systems in real-time (compatible with third party systems such as Medi-Tech, Siemens, and others).

DISCRETE CLINICAL DATA - Sends Xper Information Management Clinical Discrete Data to third party databases using HL7 format via TCP/IP or File Post.

RESULTS - Sends finalized Transcription reports from Xper Information Management to electronic medical records systems. Reports may be sent in PDF (via HL7 Reference Pointer - which is an interface that sends an HL7 message to the receiving system. This HL7 message indicates where a copy of the .pdf document is located and can be picked up. The .pdf document has all the information and formatting that is on the transcription.) OR HL7 ASCII format (ORU ^R01 which is a text only version of the document. The information will only contain the text and does not include any pictures, or formatting that has been added to the document.)

System Software:
- ADT Interface License
- LABS Interface License
- Discrete Clinical Data Interface License
- Results Interface License

Requirements:
- Xper Connect Core Software
- All Xper Information Management Connect functions require a common network connection between Xper Information Management Connect Server and the appropriate third party system or device and Xper Information Management client workstation(s).

| 11 | Xper IM Connect Software | 1 |

This software is required when interfacing between Xper Information Management and a third party system is desired. The software enables activation of available Xper Information Management Connect Interfaces.

System Software included:
-Xper Connect Software

Requirements:
All Xper Connect functions require a common network connection between Xper Information Management Interface Server and the appropriate third party system or device and Xper Flex Cardio client or hospital provided workstation(s). Used ports must remain open.
- Interface Server Hardware

| 12 | DMWL Non-Orders Based Interface | 1 |

This product allows activation of DICOM Modality Worklist (SCP) - Non-Orders Based interface. Activation of additional interfaces requires additional purchase. This interface will generate a DICOM Modality Worklist based off information manually entered into the Xper Case Details Screen.

DICOM Modality Worklist (SCP) - Non-Orders Based - Creates DICOM Modality Worklist that allows imaging devices to automate patient admission functions, improving workflow and reducing errors. This is Non-Orders based and requires ADT or manual admit to Xper Information Management which then manually creates a worklist entry.

Formats/Protocols Supported:
- DICOM

System Software:
- DICOM Modality Worklist (SCP) Non-Orders Based Interface License

Requirements:
- Xper Connect Core Software
- Xper ADT Interface (for auto admit)
- All Xper Connect functions require a common network connection between Xper Information Management Interface Server and the appropriate third party system or device and Xper Flex Cardio client or hospital provided workstation(s).

| 13 | **Xper IM End of Case Report Interface** | **1** |

This product allows activation of End of Case Report interface. Activation of additional interfaces requires additional purchase.

End of Case Report Interface – Sends a HL7 Reference Pointer Message to hospitals' EMR or HIS systems, alerting the system where it can locate a PDF version of the end of case report. The end of case report will contain but is not limited to demographics, hemodynamic data, waveforms, conscious sedation data, and procedure log.

Formats/Protocols Supported:
- HL7 version 2.1, 2.2, 2.3, 2.4, 2.5
- TCP/IP, File Post

System Software:
- End of Case Report Interface License

Requirements:
- Xper Connect Core Software
- All Xper Connect functions require a common network connection between Xper Information Management Interface Server and the appropriate third party system or device and Xper Flex Cardio client or hospital provided workstation(s).

| 14 | **Philips Cath Lab Experience** | **1** |

This interface enables the Philips Cath Lab Experience functionality within Xper Information Management. This includes launching Xcelera to view and capture cine images for inclusion in reports as well as saving reports, coronary trees and waveforms into Xcelera.
Activation of additional interfaces requires additional purchase.

System Software:
-Cath Lab Experience Interface License
Requirements:
-Xper Connect Core Software.
-All Xper Information Management Connect functions require a common network connection between Xper Information Management Hospital Interface Software and the appropriate third party system or device and Xper Information Management client workstation(s).
-Xcelera version 2.2 or higher

NOTE: For optimal performance the following interfaces are required: ADT or Orders.

| 15 | **XperIM Data Center Server** | **1** |

The Server hardware provides the platform for all network communications for Xper Flex Cardio physiomonitoring system and Xper Information Management. Facility is to provide monitor, keyboard and mouse or equivalent.

Minimum System Hardware Included:
- File Server
- Main Board

- Dual Core 1.6 GHz or greater processor
- 4 GB RAM
- Hard Disk (500 GB capacity, RAID possible)
- DVD-ROM drive
- Video – 1280 x 1024 res, 16 bit color Min
- 10/100/1000 Network Adapter (may have multiple)

System Software included:
-Microsoft Windows Server Operating System (sufficient licenses for all IPC provided computers and software licenses purchased)
-Microsoft SQL Server Software
-Symantec pcAnywhere

Requires:
- Xper IM Data Center SW
- Rack in which to place Server, monitor, keyboard, mouse and UPS

| 16 | **Xper IM Test Server** | 1 |

The Data Center Test Server hardware provides the platform for all network communications for Xper IM test environment. The test configuration cannot be used for clinical practice and must be sold in conjunction with an Xper IM solution.

Minimum System Hardware Included:
-File Server, rack chassis
-Main Board
-Dual Core 1.6 GHz or greater processor
-4 GB RAM
-RAID 5 array (500 GB capacity)
-CD-ROM drive
-Video – 1280 x 1024 res, 24/32 bit color Min
-10/100/1000 Network Adapter (2)

System Software included:
-Microsoft Windows Server Operating System (sufficient licenses for all Philips provided computers and software licenses purchased)
-Microsoft SQL Server Software
-Symantec pcAnywhere

Requires:
- Xper IM Test SW
- Rack in which to place Server, monitor, keyboard, mouse and UPS

| 17 | **GCX Rolling Stand** | 2 |

For mounting of VESA Compatible Flat Panel displays.

Includes:
 - Rolling stand
 - Keyboard / Mouse support arm
 - CPU mounting bracket
 - Flat Panel display mounting base

- Storage basket
- Support arm for Flex Cardio device

Notes:
*This roll stand does not support mounting of dual displays.
*Customer purchasing Xper Flex Cardio Bedside Solution will also need to purchase the Xper GCX Articulating Arm for mounting of the FC2020 device.

18   **4:3 LCD HQ Display (19 inch)**   **1**

19" Medical Grade LCD Color Display (1280 x 1024 resolution) for mounting on suspension boom in procedure room, or for use with client workstations

- Includes VGA Cable (To be pulled / installed by customer). Cable not included with Boom monitor if purchased with a hemodynamic system, as the cable is included with that product.

19   **XperIM Interface Broker Test**   **1**
                   Server

The XperIM Connect Test Server hardware provides the platform for all network communications for Xper IM test environment.

Minimum Server Hardware Included:
-File Server
-Main Board
-Dual Core 1.6 GHz or greater processor
-4 GB RAM
-RAID 5 array (500 GB capacity)
-CD-ROM drive
-Video – 1280 x 1024 res, 24/32 bit color Min
-10/100/1000 Network Adapter (2)

System Software included:
-Microsoft Windows Server Operating System (sufficient licenses for all IPC provided computers and software licenses purchased)
-Microsoft SQL Server Software
-Symantec pcAnywhere

Require:
- Xper IM Test software
- Customer to provide rack in which to place server, and peripherals such as monitor, keyboard, mouse and UPS.

20   **XperIM Connect Server**   **1**

The Interface Server provides the platform for all communications with Xper Information Management Connect software and third party interface systems.
Minimum System Hardware Included:
-File Server
-Main Board
-Dual Core 1.6 GHz or greater processor
-4 GB RAM
-RAID 5 array (500 GB capacity)
-CD-ROM drive
-Video – 1280 x 1024 res, 24/32 bit color Min
-10/100/1000 Network Adapter (2)

System Software included:
-Microsoft Windows Server Operating System (sufficient licenses for all IPC provided computers and software licenses purchased)
-Microsoft SQL Server Software
-Symantec pcAnywhere

Requires:
- Xper IM Connect SW
- Rack in which to place Server, monitor, keyboard, mouse and UPS

21   **Customer provided Boom**   **1**
              and/or Client Displays

Customer to provide Displays.

Boom displays must be medical grade monitor, which is a monitor that passes the requirements of IEC60601-1 for earth leakage, grounding and galvanic isolation etc. These monitors are specifically designed for use within the patient environment and have a UL or known agency mark (CSA, TUV) that states that it meets the 60601-1 standard

For Workstation displays outside of the patient environment, any PC compatible display may be provided.

22   **Customer Provided**   **1**
              Workstation HW

Hardware for use with concurrent user licenses and Patient Status Viewer software.

Minimum Workstation Hardware Specifications:
- Main Board
- 3.0 GHz or greater hyper-threading processor
- 2 GB RAM
- 80 GB or greater hard drive
- DVD-ROM drive reader
- Video – 1280 x 1024 res, 24/32 bit color (optional Dual Head DVI)
- 10/100/1000 MB network adapter (may have multiple)
- Mouse
- Keyboard

NOTE: Xper IM Concurrent User Licenses and/or Patient Status Viewer license must be purchased separately.

23   **Xper Flex Cardio Table Mount**   **2**

This Xper Flex Cardio Table Mount is a customized mounting system and is required to mount FC2010 to x-ray table. The mount includes cable management to minimize clutter of cables connected to the FC2010 device.

*This wall mount is optimized for the Philips Allura X-ray table, but could be used for x-ray tables from other manufacturers.

24   **24U Rack**   **1**

Storage rack for Server/Interface Server

Minimum System Hardware included:
- Rackmount Monitor, Keyboard, Touchpad Mouse
- KVM Switchbox

NOTE: To be assembled on-site.

| 25 | **Philips Cath Lab Experience** | 1 |

The XperIM Flex Cardio system will be installed in the Integrated Cath Lab (multimodality) configuration with Xcelera.

| 26 | **OnSite Clinical Training, 2 days** | 1 |

Provides one Clinical Applications Specialist on-site for two days (minimum 8 hours/day)

Training is valid for one year from the purchase date. Any unused training will expire after this time.

| 27 | **OnSite Clinical Training, Additional day** | 12 |

Provides one Clinical Applications Specialist on-site for one additional day (minimum 8 hours/day).

Training is valid for one year from the purchase date. Any unused training will expire after this time.

| 28 | **Integrated Cath Lab OnSite Training** | 1 |

Additional On-site Clinical Training on the Integrated Cath Lab
- Provides one Clinical Applications Specialist on-site for two days (minimum 8 hours/day)

Training is valid for one year from the purchase date. Any unused training will expire after this time.

| 29 | **Workflow Consulting Services** | 1 |

This consulting service is designed to analyze and document a customer's current departmental workflow, and then identify ways to optimize that workflow through the use of Xper Information Management. Whether replacing an existing cath lab hemodynamic and information system, upgrading from a legacy system or moving from paper-based processes to electronic documentation careful analysis and preparation for the new environment are critical to a successful implementation. This service is vital to understanding and planning for these effects.

| 30 | **Xper IM Customized Reporting Services** | 1 |

| 31 | **Xper IM Data Analysis Query e-learning** | 2 |

Xper Information Management Data Analysis (Query) eLearning Course Overview

This eLearning training course provides the trainee with the knowledge and skills needed to successfully utilize the Query module within the Xper Information Management application. This training is designed for clinical users who will be tasked with gathering patient statistical data from the Xper IM Application.

The elearning is taught using a combination of presentation, demonstration and hands on experience, all through a virtual computer-based training environment.

Upon completion of this course the student will be able to implement the skills learned to create and output standard and customized statistical reports. This course is not required prior to Go-Live of the application.

Features

Individuals who successfully complete this elearning training will be able to:

- Identify features and functions of the Query Module
- Discuss approach to designing queries to produce optimal results
- Perform queries on the entire database and with filters using standard reports
- Develop multiple-parameter queries
- Create and Output data with pre-defined and custom-built reports
- Automate the printing process to output reports on a scheduled basis
- Export database information to either Excel or Access

Recommended Attendees

- Xper Information Management Clinical Super Users (RN's, RCIS's, RT's, or CVT's) – This is not an IT course.
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge of Windows OS (copy, paste, find files, keyboard and mouse usage).
- Student should have the ability and authority to determine what statistical reports are needed for your facility.

Engagement Deliverables

- The elearning course can be access online or downloaded from the Philips Learning Center (PLC).
- The elearning course is not be available on CD/DVD. This course must be accessed online to obtain latest content.

Engagement Completion Criteria

Successful completion of the Xper Information Management Data Analysis (Query) elearning course will be based on completing the quiz through the PLC.

Customer Work Contributions

- It is recommended that the student will have successfully completed the Xper Information Management Super User eLearning course and the Xper Information Management Super User ILT course in order to understand the functions of the application or the Xper IM System Administrator course.
- It is recommended that the student utilize the system in a live environment for at least 2-4 weeks prior to enrolling in the eLearning course.
- Work with Project manager/Learning Center to create an account on the Philips Learning Center (PLC) and enroll in the elearning course.
- Customers must commit to completing the elearning before the enrollment expires.
- The elearning course is compatible with Windows and Apple base computers.
- The PLC website contains the latest list of recommended browsers and computer settings for optimal performance.
- Audio performance is enhanced with the use of headphones or earphones.

- The Xper IM application must be loaded and registered on a PC in order to utilize the Query module.

Estimating Assumptions on Work

The elearning course is located on the Philips Learning Center.

Limitations on Work

- Once the trainee is enrolled, he or she will have a maximum of six months to complete the elearning course. If the elearning course is not completed before the expiration date, the Project Manager or Learning Center will have to re-enroll the trainee.
- This elearning course is not required prior to Go-Live of the application.
- The Query (Data Analysis) module must be activated within the Xper Information Management Application (purchasable option).

Xper Information Management Transcription eLearning Course
Overview
This eLearning training course provides the trainee with the knowledge and skills needed to successfully utilize the Transcription module within the Xper Information Management application. This training is designed for clinical users who will be tasked with creating physician clinical reports (transcriptions) or who want to duplicate an existing written form within the Xper IM Application.

This training provides the basic information for creating transcription templates. Additional assistance with facility specific customizations and workflow scenarios can be provided by your Workflow Consultant, if purchased.

The class is taught using a combination of presentation, demonstration and hands on experience, all through a virtual computer-based training environment.

Upon completion of this course the student will be able to implement the skills learned to create, modify and configure new or existing transcription templates within the Xper IM application.

Features
Individuals who attend this training session will be able to:
- Discuss the uses of the Transcription module within the Xper IM application.
- Employ the functions and features of the Transcription Builder module in order to create new patient report templates or modify existing ones.
- Link the newly created templates to procedures in the Transcription Configuration Module.
- Create Direct Copy, Label, and Data Mining scrapers to populate transcription fields.
- In a patient study, create and sign a transcription document.

Recommended Attendees

- The student will have successfully completed the Xper Information Management Super User eLearning course and the Xper Information Management Super User ILT course in order to understand the functions of the application.
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge (keyboard usage, mouse usage). Student should have the ability and authority to determine what transcription templates are needed for your facility.
- It is recommended that the student have a working knowledge of the application prior to completing this module.

Engagement Deliverables
- The elearning course can be accessed online or downloaded from the Philips Learning Center (PLC).
- The elearning course is not available on CD/DVD. This course must be accessed online to obtain latest content.

Engagement Completion Criteria
- Successful completion of the Xper Information Management Transcription elearning course will be based on completing the quiz through the PLC.

Customer Work Contributions
- Work with Project manager/Learning Center to create an account on the Philips Learning Center (PLC) and
    enroll in the elearning course.
- One trainee per elearning session.
- Customers must commit to completing the elearning before the enrollment expires.
- The elearning course is compatible with Windows and Apple base computers.
- The PLC website contains the latest list of recommended browsers and computer settings for optimal performance.
- Audio performance is enhanced with the use of headphones or earphones.

Estimating Assumptions on Work
- The elearning course is located on the Philips Learning Center.

Limitations on Work
- Once the trainee is enrolled, he or she will have a maximum of six months to complete the elearning course. If the elearning course is not completed before the expiration date, the Project Manager or Learning Center will have to re-enroll the trainee.
- One trainee per elearning session.
- This training module is not required prior to Go-live of the application.
- This software module, within the Xper IM application must be purchased as part of the customer PO and the workstations must be configured in order for the Transcription module in the application to be available for use.

| 33 | **Xper IM Scheduler e-learning Course** | **2** |

Xper Information Management Scheduler eLearning Course
Overview
This elearning training course provides the trainee with the knowledge and skills needed to utilize the Scheduling module successfully within the Xper Information Management application. This training is designed for users (clinical or non-clinical) who will be utilizing the module to maintain staff or study schedules for their facilities.
The course is taught using a combination of presentation, demonstration, and hands-on experience, all through a virtual, computer-based training environment. No other Xper IM training is required prior to registering for this course.

Upon completion of this elearning, the student should be able to implement the skills learned to customize the Scheduler module for their facilities' workflows.

Features
Individuals who attend this training session will be able to:
- Describe the workflow involved in logging into the application
- Customize the scheduler module to track studies
- Customize the scheduler module for staff scheduling

Recommended Attendees
• Xper Information Management Customers – Clinical and/or general users of the Xper Information Management Application who will be responsible for utilizing the Scheduler module within the application.
• The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge (keyboard usage, mouse usage).

Engagement Deliverables
• The elearning course can be access online or downloaded from the Philips Learning Center (PLC).
• The elearning course is not be available on CD/DVD. This course must be accessed online to obtain latest content.

Engagement Completion Criteria
• Successful completion of the Xper Information Management Scheduler elearning course will be based on completing the quiz through the PLC.

Customer Work Contributions
• Work with Project manager/Learning Center to create an account on the Philips Learning Center (PLC) and enroll in the elearning course.
• Customers must commit to completing the elearning before the enrollment expires.
• The elearning course is compatible with Windows and Apple base computers.
• The PLC website contains the latest list of recommended browsers and computer settings for optimal performance.
• Audio performance is enhanced with the use of headphones or earphones.

Estimating Assumptions on Work
• The elearning course is located on the Philips Learning Center.
• No other Xper IM training is required prior to registering for this course.

Limitations on Work
• Once the trainee is enrolled, he or she will have a maximum of six months to complete the elearning course. If the elearning course is not completed before the expiration date, the Project Manager or Learning Center will have to re-enroll the trainee.
• This elearning course is not required prior to Go-Live of the application.
• Must have a workstation with Xper Information Management Application loaded and the Scheduler module activated (purchasable option).

| 34 | **Xper IM Custom Forms e-learning Course** | 2 |

Xper Information Management Custom Forms eLearning Course

Overview:

This eLearning training course provides the trainee with the knowledge and skills needed to successfully utilize the Custom Forms module within the Xper Information Management application. This training is designed for clinical super users who will be utilizing the module to create custom fields and forms to be able to capture patient data for use in the Transcription module or Data Analysis module.
The course is taught using a combination of presentation, demonstration and hands on experience, all through a virtual computer-based training environment. Upon completion of this eLearning, the student should be able to implement the skills learned to create customized fields, design forms, and create scrapers to populate the fields in a patient's case.
Features -

Individuals who attend this training session will be able to:
- Describe and demonstrate the process for creating a new field
- Describe and demonstrate the process for designing a custom form
- Create scrapers to populate the fields and forms in a test case
- Explain the purpose of the Custom Form module and how it can be utilized for capturing patient data.

Recommended Attendees
- Xper Information Management Customers – Clinical Super Users of the Xper Information Management Application with the Flex Cardio Hemodynamic Monitoring System. (This is not an IT course).
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge (keyboard usage, mouse usage).
- Student should have the ability to determine what fields are needed for your database and the authority to make those decisions for your facility.

Engagement Deliverables
- The eLearning course can be access online or downloaded from the Philips Learning Center (PLC).
- The elearning course is not available in CD/DVD format.

Engagement Completion Criteria
- Successful completion of the Xper Information Management Custom Forms elearning course will be based on completing the quiz through the PLC.

Customer Work Contributions
- The student will have successfully completed the Xper Information Management, Super User eLearning course and the Xper Information Management Super User ILT course in order to understand the functions of this application.
- Work with Project manager and the Learning Center to create an account on the Philips Learning Center (PLC) and enroll in the elearning course.
- Customers must commit to completing the elearning before the enrollment expires.
- The elearning course is compatible with Windows and Apple base computers.
- The PLC website contains the latest list of recommended browsers and computer settings for optimal performance.
- Audio performance is enhanced with the use of headphones or earphones.

Estimating Assumptions on Work
- The eLearning course is located on the Philips Learning Center.

Limitations on Work
- Once the trainee is enrolled, he or she will have a maximum of six months to complete the elearning course. If the elearning course is not completed before the expiration date, the Project Manager or Learning Center will have to re-enroll the trainee.
- This elearning course is not required prior to Go-Live of the application.
- The Custom Forms module must be activated within the Xper Information Management Application (purchasable option).

Xper Information Management Clinical Super User Pre-Requisite eLearning

Overview

This ***eLearning*** training course provides the trainee with the knowledge and skills required for successful completion of the Xper Information Management Clinical Super User ILT Course. This training is designed for new Xper IM clinical Super Users (RN's, RCIS's, RT's, or CVT's) who are unfamiliar with the Xper Information Management application, Flex Cardio Hemodynamic system, and implementation process.

The elearning is taught using a combination of presentation, demonstration, and hands on experience, all through a virtual computer-based training environment. This course also has a downloadable supplement document, which is to be read during this course.

Upon completion of this course, Clinical Super Users should be able to implement the skills learned to add users to their database, employing all the security features available within the application. They should be able to create User Roles based on user's job functions and/or application functions, within the department. The skills learned in this elearning module will be necessary for the successful completion of the Clinical Super User instructor-led course.

Features

- Individuals who successfully complete this elearning training will be able to:
- Explain, in general terms, the features and functions available in the Xper IM Application
- Describe the function of each of the components comprising the Xper IM network
- Describe how to maneuver through the application using the function Beans
- Explain how to log into the application
- Identify how to meet the demands of the hospital's rigid user security requirements by utilizing the security features of the Xper IM Hemodynamic System.

Recommended Attendees

- Xper Information Management Clinical Super Users (RN's, RCIS's, RT's, or CVT's) – Not for IT's.
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge of Windows OS (copy, paste, find files, keyboard and mouse usage).
- Students should have the authority to make decisions regarding database changes for their facilities.

Engagement Deliverables

- The elearning course can be accessed online from the Philips Learning Center (PLC).
- The elearning course is not available in CD/DVD format.

Engagement Completion Criteria

- Successful completion of the Xper Information Management Clinical Super User Pre-Requisite elearning course will be based on completing the quiz through the PLC.

- The project manager can close this project task once the customer is registered in the PLC and enrolled in this elearning course.

Customer Work Contributions

- Work with Project manager/Learning Center to create an account on the Philips Learning Center (PLC) and enroll in the elearning course.
- Completion of this elearning course quiz is required prior to registering for the Xper Information Management Clinical Super User ILT Course.
- Customers must commit to completing the elearning before the enrollment expires.
- The elearning course is compatible with Windows and Apple base computers.
- The PLC website contains the latest list of recommended browsers and computer settings for optimal performance.
- Audio performance is enhanced with the use of headphones or earphones.

Estimating Assumptions on Work

The elearning course is located on the Philips Learning Center.

Limitations on Work

Once the trainee is enrolled, he or she will have a maximum of six weeks to complete the elearning course. If the elearning course is not completed before the expiration date, the Project Manager or Learning Center will have to re-enroll the trainee.

36   **Xper IM Clinical Super User ILT   2 Course**

Xper Information Management Clinical Super User ILT Course

Overview

This intensive four and a half (4.5) day course provides the trainee with the knowledge and skills required for successful Xper IM implementation by the clinical Super User. This training is designed for new Xper IM clinical Super Users (RN's, RCIS's, RT's, or CVT's) who are unfamiliar with the Xper Information Management application, the Flex Cardio Hemodynamic system, and implementation process. The course includes lecture and hands-on exercises with clinical cases that detail best practices.

Upon completion of this course, Clinical Super Users should be able to implement the skills learned to customize their databases for their facilities' workflows, be able to utilize the Flex Cardio monitoring system, and train additional staff to use the application to perform a variety of procedures.

The class is taught using a combination of demonstration and hands on experience. The training course is held at a designated Philips learning facility. The price includes air travel, ground transportation, hotel accommodations, lunch, and a $40 daily allowance for breakfast and/or dinner at the hotel.

Features

Individuals who attend this training session will be able to:

- Describe the function of each of the components comprising the Xper IM network
- Identify how to meet the demands of the hospital's rigid user security requirements by utilizing the security features of the Xper IM Hemodynamic System
- Properly utilize the system to monitor any procedure type by utilizing the Flex Cardio Monitoring System
- Customize the system's default menus to ensure proper patient documentation
- Customize the default system tables to meet the needs of the facility
- Customize and maintain inventory through the Xper IM application.
- Perform the diverse types of cases from beginning to end and incorporate all aspects of the case into an electronic medical record.
- Document data for submission to the ACC4 CathPCI NCDR

Recommended Attendees

- Xper Information Management Clinical Super Users (RN's, RCIS's, RT's, or CVT's) – Not for IT's.
- Successful completion of Xper Information Clinical Super User Pre-Requisite eLearning is required prior to attending this course.
- The prospective student should have knowledge of clinical procedures and facility workflow, basic PC knowledge of Windows OS (copy, paste, find files, keyboard and mouse usage).
- Students should have the authority to make decisions regarding database changes for their facilities.

Engagement Deliverables

 4 ½ day training, Monday through Friday, covering the features listed above with the addition of a final exam.

Engagement Completion Criteria

Attendance of one person at Xper Information Management Clinical Super User ILT Training Course

- Training objectives have been delivered to the designated trainee
- The trainee has attended four and a half (4.5) days of training

Customer Work Contributions

- Successful completion of the Xper Information Management Clinical Super User
- Pre-Requisite eLearning course is required prior to registration for this course. This elearning course is located on the Philips Learning Center (PLC).

Estimating Assumptions on Work

- Customer personnel and resources, defined in the project plan are made available at the times defined by the project plan.

- Training is held at a designated Philips Training Center location.

Limitations on Work

- Training is good for one (1) year from the purchase date. Any unused training will expire after this time.
- Training classes are scheduled in advance and registration is on a first come, first serve basis.
- Notify Philips a minimum of two (2) weeks in advance of any changes to registration.

37   **Contracts - Onsite PS Hours**   **310**

Philips Healthcare applies disciplined project management methodology to delivery of each engagement. Our methodology closely parallels the Project Management Institute's (PMI) worldwide -recognized framework of Initiating, Planning, Executing, Controlling and Closing. The Philips team, led by an experienced project manager, will work with you throughout the duration of the project to deliver the products and services described in this quotation. Team members typically include the following:

- Implementation Specialists - responsible for technical work such as installation and configuration of the system hardware and software
- Application Consultants – responsible working within the clinical environment providing expertise in workflow, application configuration and training
- Integration Engineer – responsible for development and testing of HIS and clinical interfaces

The work effort to implement your solution is based upon the specific configuration that has been defined in the quotation. The Statement of Work (SOW) or Project Scope Document (PSD) describes how the solution will be implemented within your environment.

For Government accounts, signed meeting minutes of the work effort involved can also be used as a substitute for the signed SOW.

38   **Contracts - Onsite Training PS**   **248**
                                 hours

Provides onsite training to be delivered by a Philips Healthcare Application Consultant. Training is valid for one year from the date of purchase. Any unused training will expire after this time. Refer to the Statement of Work (SOW) or Project Scope Document (PSD) for additional detail.

For Government accounts, signed meeting minutes of the work effort involved can also be used as a substitute for the signed SOW.

39   **Contracts - Remote PS hours**   **226**

Philips Healthcare applies disciplined project management methodology to delivery of each engagement. Our methodology closely parallels the Project Management Institute's (PMI) worldwide -recognized framework of Initiating, Planning, Executing, Controlling and Closing. The Philips team, led by an experienced project manager, will work with you throughout the duration of the project to deliver the products and services described in this quotation. Team members typically include the following:

- Implementation Specialists - responsible for technical work such as installation and configuration of the system hardware and software

- Application Consultants – responsible working within the clinical environment providing expertise in workflow, application configuration and training
- Integration Engineer – responsible for development and testing of HIS and clinical interfaces

The work effort to implement your solution is based upon the specific configuration that has been defined in the quotation. The Statement of Work (SOW) or Project Scope Document (PSD) describes how the solution will be implemented within your environment.

For Government accounts, signed meeting minutes of the work effort involved can also be used as a substitute for the signed SOW.

40   **Xper OffSite Technical Training**   **2**
                                          (Biomed)

Overview

This three and a half day (3.5) training course is focused on the physiomonitoring system within the cath lab, the associated computer workstations, and peripheral equipment. During the course, the participants will learn about system functionality, maintenance, troubleshooting, and repairs. The training course is ideal for the clinical (biomedical) engineer responsible for servicing this equipment. The class is taught using a combination of demonstration and hands-on experience.

The training course is held at Philips Training Center located in Melbourne, FL. The price includes air travel, ground transportation, hotel accommodations, lunch, and a $40 daily allowance for breakfast and/or dinner at the hotel.

Features

- Describe and demonstrate how to:
- Establish program for and perform hardware and software Periodic Maintenance (PM).
- Understand the communication flow from Xper Flex Cardio Device to workstation to network.
- Test and troubleshoot Xper Monitoring system components.
- Test, troubleshoot, and repair faulty computer components.

Recommended Attendees

Staff member familiar with core competencies in maintenance, troubleshooting, and repair of biomedical equipment.

Engagement Deliverables

Three and a half days Xper IM Technical Training course

Engagement Completion Criteria

Attendance of one person at Xper IM Technical Training course in Melbourne

Customer Work Contributions

Select appropriately skilled resource to attend training with core competencies in maintenance,troubleshooting and repair of biomedical equipment.

Estimating Assumptions on Work

Training is held at Philips Training Center located in Melbourne, FL.

Limitations on Work

- Training is good for one (1) year from the purchase date. Any unused training will expire after this time.
- Training classes are scheduled in advance and registration is on a first come, first serve basis.
- Notify Philips a minimum of two (2) weeks in advance of any changes to registration.

| 41 | Xper IM Offsite IT System Administrator Training | 2 |

Overview

This comprehensive three and a half (3.5) days training program is designed to prepare the System Administrator in advanced system management and maintenance of Xper Information Management.

The training course is held at Philips Training Center located in Melbourne, FL. The price includes air travel, ground transportation, hotel accommodations, lunch, and a $40 daily allowance for breakfast and/or dinner at the hotel.

Features

Describe and demonstrate how to:
- System Layout: Xper components and troubleshooting
- Configuring Xper IM software and monitoring environment
- Xper Database: structure, troubleshooting, backup and restore
- Xper Connect: data flow, structure, and troubleshooting
- Lab Reporting: developing custom queries and generating custom reports
- Clinical Reporting: using the transcription builder to design new templates and associate them with different procedure types
- User Manager: creating new users, setting user types, and understanding and creating new user roles
- Portal Designer: creating new user role-portals (home pages) based on user role, modifying portal designs for a single user

Recommended Attendees

- IT staff member who will be responsible for performing system administrator duties
- Staff member who is able to navigate Microsoft Windows and has system administrator rights

Engagement Deliverables

Three and a half days advanced System Administration Training course.

Engagement Completion Criteria

Attendance of one person at Advanced System Administration Training

Customer Work Contributions

Select appropriately skilled resource to attend this training with the responsibility of performing system administration duties.

Estimating Assumptions on Work

Training is held at Philips Training Center located in Melbourne, FL.

Limitations on Work

- Training is good for one (1) year from the purchase date. Any unused training will expire after this time.
- Training classes are scheduled in advance and registration is on a first come, first serve basis.
- Notify Philips a minimum of two (2) weeks in advance of any changes to registration.

42	**Total number of Facilities**	**1**

43	**Configuration Support-Remote Services**	**32**

Provides remote configuration support to be delivered by a Philips Healthcare Application Consultant. Services are valid for one year from the date of purchase. Any unused services will expire after this time. Refer to the Statement of Work (SoW) or Project Scope Document (PSD) for additional detail.

44	**Application Training**	**40**

Provides onsite training to be delivered by a Philips Healthcare Application Consultant. Training is valid for one year from the date of purchase. Any unused training will expire after this time. Refer to the Statement of Work (SoW) or Project Scope Document (PSD) for additional detail.

45	**Follow-up Training**	**24**

Provides onsite training to be delivered by a Philips Healthcare Technical Implementation Consultant. Training is valid for one year from the date of purchase. Any unused training will expire after this time. Refer to the Statement of Work (SoW) or Project Scope Document (PSD) for additional detail.

46	**System Admin Training**	**16**

Provides onsite training to be delivered by a Philips Healthcare Technical Implementation Consultant. Training is valid for one year from the date of purchase. Any unused training will expire after this time. Refer to the Statement of Work (SoW) or Project Scope Document (PSD) for additional detail.

47   **Go-live support**   **40**

Provides onsite go-live support to be delivered by a Philips Healthcare Application Consultant. Services are valid for one year from the date of purchase. Any unused services will expire after this time. Refer to the Statement of Work (SoW) or Project Scope Document (PSD) for additional detail.