**QSMART – EXPERT TRAINING**

This training contains both optical and electronics part.

The purpose is to troubleshoot system and replace optical and electronics parts.

* Product unpacking
* Product description
* Customer use
  + Product function
  + Q-touch function
  + Flash lamp replacement
  + CG maintenance
* Description Service
  + Sub Assy function
  + System block diagram
  + Board functions
  + Qsmart service software
  + Spare parts list

**LASER HEAD**

* Laser Head description
* HeNe laser alignment
* Service software description
* Pump chamber assy
* Rod assembly
* GRM assy
* Polarizor assy
* Pockels cell assy and Qswitch electronic assy
* Quarter waveplate assy
* Back mirror assy
* Coolant connecting set
* Temp sensor assy
* LED CCA board
* TRIGGER CCA assy
* Laser Brain CCA (transistor replacement + firmware burning )
* Cover switch

**ICE**

* ICE description
* Power supply cover removal procedures
* CPU CCA replacement (firmware burning)
* Power supply mounting and dismounting
* Key CCA
* Cooling group replamcent
* Cooling group Sub assy
* Function Test

**HARMONIC GENERATOR**

* HG Description
* Crystal cell assy
* Windows replacement
* Beam dump and dicrhoirc mirror replacement
* PSHG cca replacement
* Photodiodes replacement 2/3W et 4/5W

**ADDITIONAL PROCEDURES**

Firmware upgrade procedure (ICE and Laser head).