



INDux Training Course

Advanced Level

Modules 1 and 2

GENERAL INFORMATION ON TRAINING COURSE

GOALS	<ul style="list-style-type: none"> - Get trained for safe and reliable operation of the equipment. - Acquire an advanced theoretical understanding of the different elements of the Rhodotron® and its components. - Follow advanced exercises on troubleshooting of major systems. - Gain autonomy with IBA equipment.
LOCATION	INDux center - Belgium (advanced 1) & France (advanced 2)
PROGRAM	See table below
DURATION	5 full days for each module
ATTENDANCE	3 -4 persons
TRAINEE'S PRE-REQUIREMENT	The trainees should be fluent in English, having an adequate degree of experience and technical expertise corresponding to the responsibilities involved. To take the Advanced Level modules 1 and 2, participants must have followed the Basic Modules 1 and 2.

Certificate of attendance will be issued to the trainees at the end of the training week.

ADVANCED 1

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
ADVANCED E-SOURCE	MAGNETISM	ADVANCED RADIO FREQUENCY	ADVANCED RADIO FREQUENCY	POWER SUPPLIES - IN-DEPTH ANALYSIS
<ul style="list-style-type: none"> - Principles review and equipment calibration. 	<ul style="list-style-type: none"> - Principles, implementation and introduction to beam optics. - Fundamentals of beam tuning. 	<ul style="list-style-type: none"> - Resonance, fundamentals of RF tuning and regulation. 	<ul style="list-style-type: none"> - The Low-Level RF rack in depth. - General troubleshooting approach and case studies. 	<ul style="list-style-type: none"> - Power electronics and components review.

ADVANCED 2

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
SYSTEM PARAMETERS & DOSIMETRY	RF CHAIN TUNING & FINAL POWER AMPLIFIER	OVERVIEW OF SOLID-STATE AMPLIFIERS	APPLIED BEAM TUNING	TROUBLESHOOTING
<ul style="list-style-type: none"> - Site presentation. - System parameters, assessment of machine condition. - Dosimetry. 	<ul style="list-style-type: none"> - Applied RF tuning. - FPA adjustments. - The anode power supply - practical exercises. 	<ul style="list-style-type: none"> - Principles and implementation. - E-source - Maintenance and detailed electronics overview. 	<ul style="list-style-type: none"> - Theoretical reminders and hands-on beam spot checks. 	<ul style="list-style-type: none"> - Applied troubleshooting exercises. - Conclusions and final debrief.

