



**Table 6.3.1 A: Recommended Initial Training and Experience Levels**

Examination Method	NDT Level	Technique	Training Hours	Experience	
				Minimum Hours in Method	Total Hours in NDT
Acoustic Emission	I		40	210	400
	II		40	630	1200
Electromagnetic	I	AC Field Measurement	40	210	400
	II		40	630	1200
	I	Eddy Current	40	210	400
	II		40	630	1200
	I	Remote Field	40	210	400
	II		40	630	1200
Ground Penetrating Radar	I		8	60	120
	II		20	420	800
Guided Wave	I		40	240	460
	II		40	240	460
Laser Methods	I	Profilometry	8	70	130
	II		24	140	260
	I	Holography/Shearography	40	210	400
	II		40	630	1200
Leak Testing	I	Bubble Testing	2	3	4
	II		4	35	65
	I	Pressure Change	24	105	200
	II		16	280	520
	I	Halogen Diode	12	105	200
	II		8	280	520
	I	Mass Spectrometer	40	280	520
	II		24	420	800
Liquid Penetrant	I		4	70	130
	II		8	140	270
Magnetic Flux Leakage	I		16	70	130
	II		12	210	400
Magnetic Particle	I		12	70	130
	II		8	210	400
Neutron Radiography	I		28	420	800
	II		40	1680	2400
Radiological	I	Radiographic	40	210	400
	II		40	630	1200
	I	Computed Radiography	40	210	400
	II		40	630	1200
	I	Computed Tomography	40	210	400
	II		40	630	1200
	I	Digital Radiography	40	210	400
	II		40	630	1200
Thermal/Infrared	I		32	210	400
	II		34	1260	1800
Ultrasonics	I		40	210	400
	II		40	630	1200
	II	Time of Flight Diffraction	40	160	n/a
	II	Phased Array	80	160	n/a
Vibration Analysis	I		24	420	800
	II		72	1680	2400
Visual	I		8	70	130
	II		16	140	270

Notes:

1.0 For NDT Level II certification, the experience should consist of time at NDT Level I or equivalent. If a person is being qualified directly to NDT Level II with no time at NDT Level I, the experience (both Method and Total NDT) should consist of the sum of the hours for NDT Level I and Level II and the training should consist of the sum of the hours for NDT Level I and Level II.

- 2.0 For NDT Level III certification, the experience should consist of the sum of the hours for NDT Level I and Level II, plus the additional time in 6.3.2 as applicable. The formal training should consist of the NDT Level I and Level II training, plus any additional formal training as defined in the employer's written practice.
- 3.0 Listed training hours may be adjusted as described in the employer's written practice depending on the candidate's actual education level, e.g. grammar school, college graduate in engineering, etc.
- 4.0 Training should be outlined in the employer's written practice. Magnetic Particle training hours may be counted towards Magnetic Flux Leakage training hours as defined in employer's written practice.
- 5.0 If an individual is currently certified in an ET technique and a full course format was used to meet the initial qualifications in that technique, the minimum training hours to qualify in another ET technique at the same NDT Level may be reduced up to 40 percent if so defined in the employer's written practice. If an individual is certified in an ET technique, the minimum experience to qualify for another ET technique at the same level or to the next level may be reduced by up to 50 percent if so defined in the employer's written practice.
- 6.0 While fulfilling total NDT experience requirement, experience may be gained in more than one (1) method, however, the minimum hours must be met for each method.
- 7.0 If an individual is currently certified in a Radiological technique and a full course format was used to meet the initial qualifications in that technique, the minimum additional training hours to qualify in another technique at the same level should be 24 hours (of which at least 16 hours should be equipment familiarization). The training outline should be as defined in the employer's written practice. If an individual is certified in a technique, the minimum additional experience required to qualify for another technique at the same level should be 24 hours, as defined in the employer's written practice.
- 8.0 Time of Flight Diffraction and Phased Array requires completion of Level I and II Ultrasonic Testing training and experience as prerequisites.