

Recommended Initial Training and Experience Levels

Table 6.3.1 A

Examination Method	Level	Technique	High School Graduate or Equivalent	Completion with a passing grade of at least 2 years of engineering or science study at a university college or technical school	Minimum Required Work Experience in Method (Hours)	Permitted Time Frame (to obtain required work experience in method) (Months)
Acoustic Emission	I		40	32	210	1.5 - 9
	II		40	40	630	4.5 - 27
Electromagnetic	I		40	24	210	1.5 - 9
	II		40	40	630	4.5 - 27
Laser Methods	I	Profilometry	8	4	70	1.5 - 3
	II		24	12	140	1 - 6
	I	Holography / Shearography	40	36	210	1.5 - 9
	II		40	36	630	4.5 - 27
Leak Testing	I	Bubble Testing	2	2	3	4 hours to 3 days
	II		4	2	35	1 week to 6 weeks
	I	Pressure Change	24	24	24	0.75 - 4.5
	II		16	12	280	2 - 12
	I	Halogen Diode	12	8	105	0.75 - 4.5
	II		8	6	280	2 - 12
	I	Mass Spectrometer	40	28	280	2 - 12
	II		24	16	420	3 - 18
Liquid Penetrant	I		4	4	70	0.5 - 3
	II		8	4	140	1 - 6
Magnetic Particle	I		12	8	70	1.5 - 3
	II		5	4	210	1.5 - 9
Neutron Radiography	I		28	20	420	3 - 18
	II		40	40	1680	12 - 72
Radiography	I		40	30	210	1.5 - 9
	II		40	35	630	4.5 - 27
Thermal/Infrared	I		32	30	210	1.5 - 9
	II		34	32	1260	9 - 27
Ultrasonics	I		40	30	210	1.5 - 9
	II		40	40	630	4.5 - 27
Vibration Analysis	I		24	24	420	2 - 18
	II		72	48	1680	12 - 72
Visual	I		8	4	70	1.5 - 3
	II		16	8	140	1 - 6

Notes:

- 1.0 For Level II certification the experience shall consist of time at Level I or equivalent. If a person is being qualified directly to Level II with no time at Level I, the required experience shall consist of the sum of the times required for Level I and Level II and the required training shall consist of the sum of the hours required for Level I and Level II.
- 2.0 For Level III certification, the required experience shall consist of the sum of the time required for Level I and Level II, and the additional requirements listed in 6.3.2. The required formal training shall consist of the 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 shall be outlined in the employer's written practice.