



LEARNING
FOR PREDICTIVE MAINTENANCE TECHNOLOGIES

JUMPSTART ULTRASOUND WORKSHOP



PRACTICAL TRAINING FOR REAL WORLD ULTRASOUND INSPECTORS

WHY CHOOSE IPI LEARNING?

IPI Learning trains employees of large international corporations and standalone operators in cities across multiple countries. We provide the most comprehensive and progressive predictive maintenance training in the world. As a one stop training centre for predictive maintenance technologies, IPI Learning course subjects include:



Infrared
Thermography



Infrared Windows
& Electrical Safety



Condition
Monitoring



Vibration



Alignment



Airborne Ultrasound

“ Our training courses are designed
to provide you with the skills you need
to perform your surveys with confidence,
competence and most importantly, results. ”

Brenton Ward, IPI Learning Trainer

IPI Learning has been providing
expert predictive maintenance
services for almost 20 years.

- ✓ Training
- ✓ Sales support
- ✓ Professional consultancy to industry

Our Trainers have decades of
real world experience and are
qualified in training & assessment
(TAE 40110) in Australia.





Jumpstart Ultrasound Workshop provides an introduction to basic sound theory, general applications, equipment performance, selection and operation.

Course overview

The Airborne Ultrasound Jumpstart Workshop is a 2 day course which is aimed at providing students with a comprehensive overview of airborne ultrasound as a science and profession.

This course provides an introduction to basic sound theory, general applications, equipment performance, selection and operation.

Students are trained to identify the various uses of ultrasound, correct application, and be able to operate ultrasonic instruments competently. Specific applications include: electrical distribution systems, mechanical systems, leak detection in fluid systems (gas, steam, air etc).

Who should apply?

- New ultrasound instrument owners
- Those considering purchasing a ultrasound instrument
- Providers of professional ultrasound testing
- Those who would like to improve reliability of their plant or structures
- ALL users of airborne ultrasound

Further study

LEVEL 1 Airborne Ultrasound

Inclusions (Fees)

Course tuition includes: all course presentations, Student Reference Manual.

Course name	Jumpstart Ultrasound Workshop
Course code	USWS2
Study mode	Onsite Learning
Duration	Two-day theory and application course
Entry requirements	None
Trainers	Brenton Ward, Garry Ward
Assessment	n/a

Student support



Comprehensive websites

infraredtraining.com.au
cita.org.au



Onsite consulting & mentoring Program

Program setup
Program audits
Onsite training and mentoring



Free advice from expert thermographers

Email training@infraredtraining.com.au
Web forum cita.org.au

TYPES OF TRAINING



Onsite Learning

IPI Learning trainers are available to provide you with onsite pH, mentoring and consultancy services at your work place. Our services include:

- Development of a customised process measurement program
- On-the-job training, providing you with step by step guidance
- Equipment purchasing advice
- Auditing of your existing process measurement program



JUMPSTART ULTRASOUND WORKSHOP COURSE OUTLINE

1

Industry Requirements

- General uses
- Service providers
- Training and qualifications
- Standards & compliance
- Data and image storage

2

Technology

- Overview ultrasonic instruments
- Performance and capabilities
- Data acquisition

3

Basic Sound Theory

- Frequency
- Sound penetration
- What causes ultrasound
- Turbulence
- Sonic deflection
- Reflection & Refraction
- Absorption
- Scattering

4

Ultrasound Applications

- Electrical
- Mechanical
- Fluid & flow

5

Analysis and Reportings

- Qualitative vs quantitative analysis
- Reporting software

6

Practical Workshop

- Gross to fine method
- Shielding techniques
- Hand techniques
- Module selection
- Reducing distance
- Angle of approach
- Angulations and positioning

7

Training Assesment

- Practical assessmentRoutine management



JUMPSTART ULTRASOUND WORKSHOP

To register and see our course schedule visit:

infraredtraining.com.au

Register directly on the training website or complete the registration form included in this information pack and return it by email to:

training@infraredtraining.com.au

For further information

or to find out about our course schedules and locations please contact us.

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