Accredited Africa Training Institute for Capacity Development
Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa
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COURSE BROCHURE

Aural Techniques for Sound Identification

Culture and Arts / Music

Unit Standard 261278 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the ability to identify and apply aural techniques in various contexts, enhancing their listening and sound identification skills. Participants will develop the competence to distinguish between different sounds, interpret auditory cues, and apply these techniques in practical scenarios such as sound engineering, music production, or quality control.

Category	Culture and Arts
Subfield	Music
Unit Standard	261278
Accreditation	SAQA Accredited · NQF Level 5 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply aural techniques to identify and differentiate between various sound sources and characteristics.
- Analyze auditory information to determine the nature and origin of sounds in different contexts.
- Evaluate the quality and integrity of sounds using aural techniques for quality assurance purposes.
- Demonstrate the ability to use aural techniques in practical scenarios such as sound recording or troubleshooting.
- Implement aural techniques to enhance listening skills for improved communication and decision-making.
- Design a systematic approach to sound identification for specific applications.

WHO SHOULD ATTEND

- This course is ideal for sound engineers, musicians, audio technicians, quality controllers in manufacturing, or any professional who needs to accurately identify and interpret sounds in their work environment.

COURSE OUTLINE

Day 1: Fundamentals of Sound and Hearing

- Properties of sound: frequency, wavelength, amplitude, phase
- The human auditory system: outer, middle, inner ear
- Psychoacoustics: loudness, pitch, timbre perception
- Sound localisation: interaural time and level differences
- Introduction to sound measurement: decibel scale
- Overview of sound identification in occupational contexts
- Basic listening exercises: pure tones and simple waveforms

Day 2: Frequency Analysis and Spectral Content

- Fourier analysis: time-domain vs frequency-domain representation
- Harmonics, overtones, and partials
- Critical bands and auditory filters
- Octave band and 1/3-octave band filters
- Spectral centroid and bandwidth
- Practical frequency identification exercises with recorded sounds
- Introduction to spectrogram reading

Day 3: Temporal and Dynamic Characteristics

- Temporal envelope shapes and ADSR parameters
- Transient detection and significance
- Rhythm and temporal patterning in non-musical sounds
- Dynamic range and loudness variations
- Amplitude modulation (AM) and frequency modulation (FM
- Practical exercises: identifying sounds by envelope and rhythm
- Case studies: machinery sounds vs environmental sounds

Day 4: Source Identification and Classification

- Sound classification taxonomies
- Mechanical sounds: engines, pumps, bearings, gears
- Electronic sounds: alarms, buzzers, transformers
- Biological sounds: animal calls, human vocalisations
- Environmental sounds: wind, rain, footsteps
- Reference sound libraries and matching techniques
- Practical classification exercises using recorded samples
- Introduction to automated sound recognition systems

Day 5: Advanced Applications and Practical Integration

- Aural fault detection: bearing wear, imbalance, misalignment
- Combining listening with instrumentation: validation and calibration
- Environmental noise assessment: identifying noise sources
- Case studies: real-world sound identification scenarios
- Report writing for sound identification assessments
- Final practical: comprehensive sound identification exercise
- Course review and assessment

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **8 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	**R 24,200.00**
1	In-House	R 31,400.00	**R 31,400.00**
1	On-Campus (Pretoria)	R 36,200.00	**R 36,200.00**

UPCOMING SESSIONS

No sessions are currently scheduled. Please contact us to arrange a session at a time and location that suits your team.

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit **www.aaticd.co.za**, open the page for this course (Unit Standard 261278) and click **Get A Quote / Apply**. Select your training method and number of delegates — your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to **apply@aaticd.co.za** — our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call **+27 12 004 8389** or WhatsApp **+27 65 077 6310** and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically — the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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