



## 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

# Describe And Represent Objects In Terms Of Shape Space And Measurement Training

Physical, Mathematical, Computer and Life Sciences / Mathematical Sciences

Unit Standard 119373 · NQF Level 1 · 5 Credits · 2 Days

## COURSE OVERVIEW

This course equips learners with the ability to describe and represent objects in terms of shape, space, and measurement. It develops foundational spatial reasoning and measurement skills essential for technical, design, and operational roles in various industries.

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Category        | Physical, Mathematical, Computer and Life Sciences |
| Subfield        | Mathematical Sciences                              |
| Unit Standard   | 119373                                             |
| Accreditation   | SAQA Accredited · NQF Level 1 · 5 Credits          |
| Duration        | 2 days                                             |
| Training Method | Online, On-Campus, In-House                        |
| Certificate     | Issued via AATICD LMS – verifiable online          |

## LEARNING OUTCOMES

- Demonstrate the ability to identify and describe the shape, size, and spatial properties of common objects.
- Apply appropriate measurement techniques to determine dimensions, angles, and volumes of objects.
- Represent objects through sketches, diagrams, or technical drawings using standard conventions.
- Analyze spatial relationships between objects in terms of position, orientation, and proximity.
- Evaluate measurement data for accuracy and consistency in practical contexts.
- Communicate spatial and measurement information clearly using appropriate terminology and formats.

## WHO SHOULD ATTEND

- This course is ideal for entry-level technicians, artisans, designers, and administrative staff who need to interpret and communicate spatial and measurement information accurately in their daily work.

## COURSE OUTLINE

### Day 1: Foundational Concepts of Shape, Space, and Measurement

- Overview of shapes: polygons, circles, prisms, pyramids, spheres.
- Properties: sides, angles, faces, edges, vertices.
- Spatial concepts: position, direction, orientation, symmetry.
- Units of measurement: metric system (mm, cm, m, km, ml, l, g, kg).
- Measuring length, perimeter, area, and volume using rulers, tape measures, and graduated cylinders.
- Practical exercises: measuring objects in the classroom and recording data.

### Day 2: Advanced Applications and Practical Integration

- Calculating perimeter and area of irregular and composite shapes.
- Volume calculations for combined 3D objects (e.g., cylinder with cone).
- Scale drawings: using ratios to represent objects.
- Problem-solving scenarios: tiling a floor, painting a room, packing boxes.
- Group project: measure and represent a given space or object, producing a scale drawing and calculating materials needed.
- Review and assessment of key concepts.

## 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 **5 NQF credits** at **NQF Level 1**.

## PRICING (PER DELEGATE, EX-VAT)

| Delegates | Training Method      | Price per Delegate | Total       |
|-----------|----------------------|--------------------|-------------|
| 1         | Online               | R 15,400.00        | R 15,400.00 |
| 1         | In-House             | R 20,000.00        | R 20,000.00 |
| 1         | On-Campus (Pretoria) | R 23,100.00        | R 23,100.00 |

## UPCOMING SESSIONS

| Start       | End         | Method    | Venue                      |
|-------------|-------------|-----------|----------------------------|
| 03 Aug 2026 | 04 Aug 2026 | On-Campus | Dubai, UAE                 |
| 03 Aug 2026 | 04 Aug 2026 | On-Campus | Mauritius                  |
| 03 Aug 2026 | 04 Aug 2026 | On-Campus | Lagos, Nigeria             |
| 05 Aug 2026 | 06 Aug 2026 | On-Campus | Pretoria, South Africa     |
| 05 Aug 2026 | 06 Aug 2026 | On-Campus | Cape Town, South Africa    |
| 05 Aug 2026 | 06 Aug 2026 | On-Campus | Johannesburg, South Africa |
| 11 Aug 2026 | 12 Aug 2026 | On-Campus | Mauritius                  |
| 11 Aug 2026 | 12 Aug 2026 | On-Campus | Dubai, UAE                 |

Contact us if no suitable date is listed – on-demand sessions can be arranged for groups.

## HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit [www.aaticd.co.za](http://www.aaticd.co.za), open the page for this course (Unit Standard 119373) 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](mailto: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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