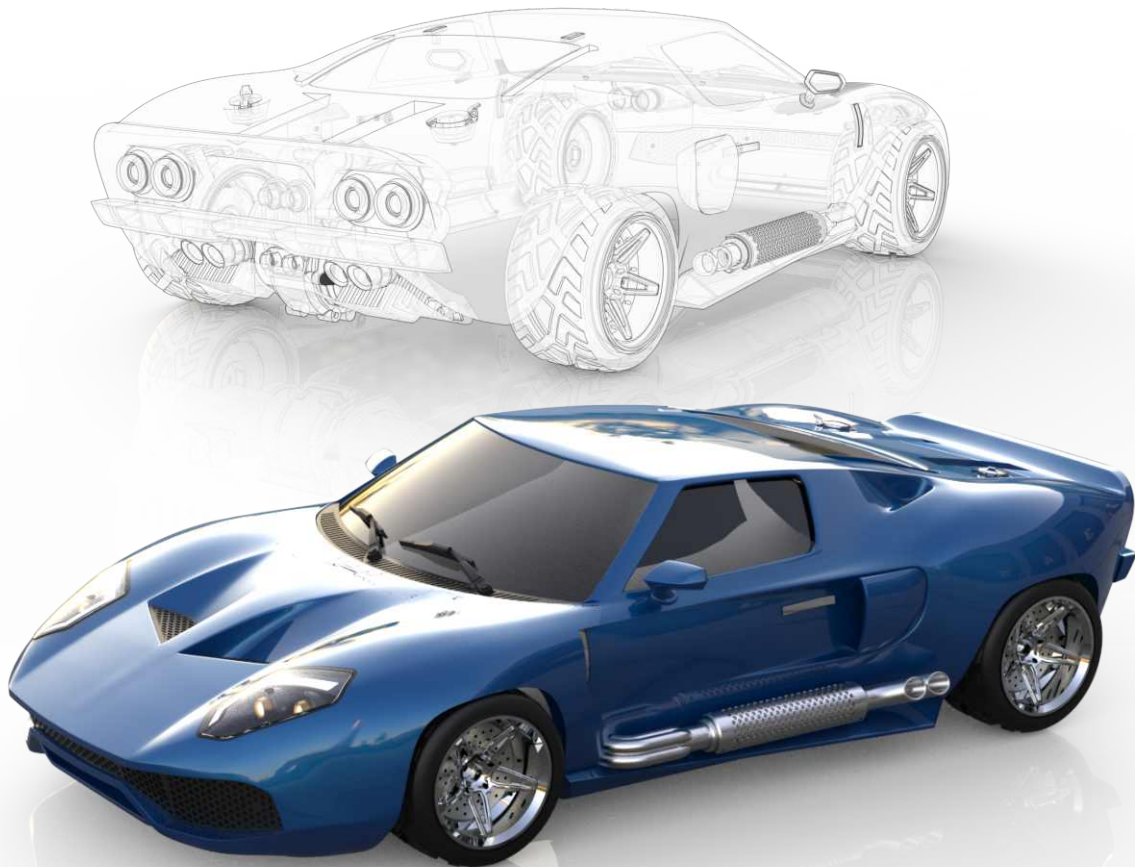


RHINO 3D Masterclass



Courses



The
Additive Manufacturing
Institute

2025

www.aminstitute.co.za

RHINO 3D Masterclass



The Additive Manufacturing Institute has been providing Rhino 3D CAD Training & Workshops to various Industries and Academic Institutions since 2008. Our facilitators are software specialists who use Rhino on a daily basis for various applications that include modelling for Design Applications, Rendering, 3D Printing, Virtual Reality and as part of the product development process. Working in industries such as Jewellery, Fashion & Footwear, Medical, Product Development, Marine, Automotive, Aerospace, Architecture, Television & Film and Fine Arts.

These comprehensive courses, covers everything from introductions to basic modelling, to advanced organic modelling, with each module focusing not just on learning the tools, but to problem solve and apply it to a variety of industries. Industry specific application exercises can be provided so that the learner can understand how to apply their new skills to real world projects in their respective fields. Custom courses can also be set up for to teach specific tasks that might be unique to a business or industry.

Available Courses

Foundation



Rhino 3D Masterclass | Foundation

An introduction to Rhino course covers everything from basic functions to modelling from curves to meshes.

Advanced



Rhino 3D Masterclass | Advanced

The follow-up advanced course covers the more advanced tools as well as focused application exercises, design for 3D printing, and more!

Custom



Rhino 3D Masterclass | Custom

Custom Courses for both Rhino 3D and DfAM can be provided if you require specific outcomes. We can adjust existing courses as well as create new ones. Talk to u about your needs

On-Demand



Rhino 3D | On-Demand

Micro Consultation Sessions from 15-60min via Fiver. On Demand help with Rhino Modelling Issues, Tips, File Fixing and Workflow Advice. For longer sessions we can schedule directly.

SubD



Rhino 3D Masterclass | SubD Modelling

Master SubDivisional Modelling in Rhino 3D, perfect for medium to professional Rhino users who only want to master this amazing modelling process. The introductory module is included in all Rhino Advanced Courses

Jewellers



Rhino 3D Masterclass for Jewellers

Foundation and Advanced Jewellery courses available with jewellery focused application exercises as well as Jewellery specific Modules like Digital Setting.

Who should take these courses?

Students

Learning new software, especially computer-aided design (CAD), can feel overwhelming amidst the influx of new information during your studies. Our Rhino 3D courses allow you to learn at your own pace with accessible support just a click away. These courses are ideal for students in fields such as jewellery design and manufacturing, industrial/product design, automotive design, and architecture. The best is you get student-discount!

Educators

Whether you need to master Rhino 3D to support your students or teach them this essential skill, our courses simplify the process. We provide ready-to-use professional content, eliminating the need to develop your own. Our training is available in-person, online, or through our platform, allowing students to learn at their own pace and addressing common challenges of classroom-based instruction. Contact us to discuss tailored solutions for your course needs.

Professionals

Rhino 3D is a cornerstone CAD software in industries such as jewellery, product design, marine, automotive, architecture, and more. If you weren't taught Rhino during your education or received inadequate training, our courses bridge that gap. For seasoned professionals, staying competitive in an evolving industry can be challenging when new technologies emerge. Our training equips you with the skills to master Rhino and advance in your field.

Hobbyists

For those pursuing Rhino 3D as a creative outlet or personal project, our courses offer a flexible and supportive way to explore CAD. Whether you're designing intricate models, experimenting with 3D printing, or simply curious about digital design, our training provides the tools and guidance to bring your ideas to life at your own pace.



RHINO 3D Masterclass

Learning Options

Throughout our almost 2 decade experience of training we realised that in order to make training truly accessible and worthwhile, a learner should have options in not just what they learn, but how they learn. We are all individuals and our intake an retention of information can be affected by more than just interest in a subject. Choosing the type of learning can impact how well you learn something and because we are serious about doing it right, we offer the following options to our customers. Weather you are a student, and educator, a working professional or just someone who wants to learn a new skill.



Live | Studio/Workplace

Engage in hands-on learning with expert instructors in a dynamic studio environment or your own workspace. Benefit from real-time feedback and collaborative activities tailored to your needs.

Advantages | Studio Training

Attend training at our Studios based in the Silo District at the V&A Waterfront in Cape Town.

We can accommodate 8 Learners easily, with ample available parking at the Silo District Parking Garage and the MiCity Bus (104) stops right at our door (Waterfront Silo Stop)

We have set dates and times but can easily accommodate custom dates and bigger groups if required. Our courses normally run over Saturdays.

Advantages | Workplace Training

We come to you, wherever you are, your business, a training venue or even your home! Additional cost will apply for venue, equipment, travel & accommodation depending on your location and training needs. Custom dates are available!



Live | Online

Join live, interactive online sessions with instructors and peers. Experience real-time guidance and community engagement from the comfort of your own space, anywhere in the world!

Advantages

Online training makes it possible for learners to attend training remotely from anywhere in the world, all you need is a good internet connection, your computer and the software installed. It saves on travelling and other costs as well. We also have a bigger window to schedule training days and times to fit your availability. This is ideal for working professionals who cannot attend courses during the week, so we can cater for after hour and weekend sessions.

Training Dates

We normally have set dates throughout the year, but they may change depending on our schedules. Custom dates for training can be arranged for single to small groups



Masterclass Platform

Access a flexible, self-paced learning platform with rich digital resources. Study anytime, anywhere, with interactive tools and progress tracking to support your journey. No set dates are required.

Advantages

The best way to train! Online training makes it possible for learners to attend training remotely from anywhere in the world, all you need is a good internet connection, your computer and the software installed. It saves on travelling and other costs as well. The platform is available 24/7, so you can do short or longer sessions, whenever you can, without having to schedule, and re-watch the training content if you feel you missed something.

This is ideal for students and working professionals who cannot attend courses during the week or have limited free time gaps, especially if they prefer working at their own pace.

Launching Late 2025



On-Demand Support

Get instant, personalized assistance with on-demand online support. Access expert help, resources, and guidance whenever you need it, at your own pace. From 15-60minute sessions.

Advantages

We all get stuck sometimes, and you need to figure out how to solve a problem or how a tool works, searching for a solution online will certainly give you tons of options, but you have to sift through hours of videos and information. This On-Demand option makes it easy, register with Fiverr and book a short session with us, we can quickly help you sort out your issue! If you need more time, contact us so we can schedule enough time to get you sorted!

Short Bookings

15-60 minutes Bookings through **Fiverr**.

Custom Bookings

Contact us for custom sessions



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Rhino 3D Masterclass I Foundation

The Rhino Masterclass Foundation Course is set up to give a learner a solid understanding of Rhino, covering all the essential tools required to get started. The foundation course does not cover every single tool in Rhino but focusses on the essential tools, enabling a starting learner to become an efficient modeller that can model a wide variety of 3D geometry. The tools covered in the Advanced course will be easier to learn once the foundation tools are under the knee.

Application Exercises

Each modelling type ends with application exercises where the learner needs to test what they have learned. This requires time and therefore we split the training into weekly classes to ensure the learner has enough time to explore these. A trouble shooting session will be held at the beginning of the new class to answer any questions. Application exercises can be tailored to be industry specific.

Learning Outcomes

Understand Rhino's interface, workflow and various modelling methods and modelling aids.
Learn how to create models using the foundation tools, from basic curves to solids, intricate surfacing and meshes.
Explore the application of these tools within your projects via Application Exercises, seeing how Rhino can work for you!

Classes

Each class will have 2, 3 hour sessions, with a break in-between. The amount of sessions is determined by workload and pace, bigger groups tend to be slower than one-on-one sessions. Duration of a standard course is 3 Days, running over 3 weeks for best results to allow enough time to do application exercises thoroughly, courses can however be run in succession days if required.

Training Requirements



1. Basic Computer Literacy
2. Laptop/PC with Rhino 8 installed. (We can also accommodate older versions of Rhino)

Module 01 | Introduction to Rhino

Chapter 01 | Course Introduction
Chapter 02 | Introduction to CAD
Chapter 03 | Introduction to Rhino

Module 02 | Rhino Interface

Chapter 01 | Opening Rhino
Chapter 02 | Interface

Module 03 | Standard Toolbars

Chapter 01 | Essential Tools
Chapter 02 | Managing Files
Chapter 03 | Rendering
Chapter 04 | Technical Drawings

Module 04 | Modelling Basics

Chapter 01 | Model Anatomy
Chapter 02 | Command Options
Chapter 03 | Modelling Aids
Chapter 04 | Points
Chapter 05 | Planning

Module 05 | Transforms

Chapter 01 | Essential Tools

Module 06 | Curve Modelling

Chapter 01 | Drawing Curves
Chapter 02 | Editing Curves
Chapter 03 | Extracting Curves
Chapter 04 | Point Editing

Module 07 | Solid Modelling

Chapter 01 | Creating Solids
Chapter 02 | Editing Solids

Module 08 | Surface Modelling

Chapter 01 | Creating Surfaces
Chapter 02 | Editing Surfaces

Module 09 | Meshes Modelling

Chapter 01 | Creating Meshes
Chapter 02 | Editing Meshes

Additional Modules

Additional modules covering a variety of topics is available to do separately from the course to help refine specific components of Rhino, please look at the Additional Modules page for more information. Please note that we do not advise to do these modules without at least finishing the foundation course as they require base skills learnt in the foundation modules.
Custom courses can also be created by selecting desired. Look at the Custom Course page for more information modules



Rhino 3D Masterclass | Advanced Course

The Rhino 3D Masterclass Advanced course expands on the foundation course and it is essential that the foundation course has been completed and the tools mastered before you start. Each module deals with the more advanced tools in the section while exploring more settings and applications. Problem solving is explored in details via planning and case studies and 2 new types of modelling is introduced.

Application Exercises

Each modelling type ends with application exercises where the learner needs to test what they have learned. This requires time and therefore we split the training into weekly classes to ensure the learner has enough time to explore these. A trouble shooting session will be held at the beginning of the new class to answer any questions. Application exercises can be tailored to be industry specific.

Learning Outcomes

Advance your skills through advanced tools in Rhino, making more complex models and applications possible.
Learn new modelling processes like Push Pull and Sub-D Modelling, giving you super powers when modelling organic geometries.
Take on problem solving and planning that help make more difficult and intricate modelling possible.
Explore the application of these tools within your projects via Application Exercises, seeing how Rhino can work for you!

Classes

Each class will have 2, 3 hour sessions, with a break in-between. The amount of sessions is determined by workload and pace, bigger groups tend to be slower than one-on-one sessions. Duration of a standard course is 3 weeks, split into 3 days, one day per week.

Training Requirements

Module 10 | Problem Solving

Chapter 01 |
Chapter 02 |

Module 11 | Advanced Transforms

Chapter 01 | Advanced Transformation Tools

Module 12 | Advanced Curve Modelling

Chapter 01 | Advanced Curve Tools
Chapter 02 | Advanced Curve Editing
Chapter 03 | Advanced Curves from Objects

Module 13 | Advanced Solid Editing

Chapter 01 | Advanced Solid Editing

Module 14 | Advanced Surface Modelling

Chapter 01 | Advanced Surface Tools
Chapter 02 | Advanced Surface Editing
Chapter 03 | Surface Problem Solving

Module 15 | Sub Division Modelling

Chapter 01 | SubD Tools
Chapter 02 | SubD Editing

Module 16 | Applications

Chapter 01 | Industry
Chapter 02 | Projects

Recaps

Q & A
Conclusions

Additional Modules

Additional modules covering a variety of topics is available to do separately from the course to help refine specific components of Rhino, please look at the Additional Modules page for more information. Please note that we do not advise to do these modules without at least finishing the foundation course as they require base skills learnt in the foundation modules.

Custom courses can also be created by selecting desired. Look at the Custom Course page for more information modules



Rhino 3D Masterclass | Custom

The Rhino 3D Masterclass Custom option is used when specific outcomes are required. This is normally done for companies that require staff to perform specific duties and nothing more. We assess the tasks that need to be performed, develop the most efficient process and then set up a course that includes all the relevant tools, ensuring specific outcomes. The foundation modules 1-5 form the basis with selected tools from other modules. This can also be utilised by learners who already have a wide knowledge range on Rhino that only want to learn specific tools or processes.

Application Exercises

Each modelling type ends with application exercises where the learner needs to test what they have learned. This requires time and therefore we split the training into weekly classes to ensure the learner has enough time to explore these. A trouble shooting session will be held at the beginning of the new class to answer any questions. Application exercises can be tailored to be industry specific.

Classes

Each class will have 2-3, 2 hour sessions, with a break in-between. The amount of sessions is determined by workload and pace, bigger groups tend to be slower than one-on-one sessions. Duration of course will depend required outcome, min 3 days, one day per week.

Training Requirements

1. We do not recommend beginners to create a custom course other than adding modules.
2. For existing rhino users who want to sharp up on tools or learn new tools you can select the relevant modules, please contact us if you are unsure about the difficulty level you need to pick.
3. Laptop/PC with Rhino 8 installed. (We can also accommodate older versions of Rhino, but note that some modules might not be relevant for older versions)

Course Material Options

Module 01 | Introduction to Rhino

Chapter 01 | Course Introduction
Chapter 02 | Introduction to CAD
Chapter 03 | Introduction to Rhino

Module 02 | Rhino Interface

Chapter 01 | Opening Rhino
Chapter 02 | Interface

Module 03 | Standard Toolbars

Chapter 01 | Essential Tools
Chapter 02 | Managing Files
Chapter 03 | Rendering
Chapter 04 | Technical Drawings

Module 04 | Modelling Basics

Chapter 01 | Model Anatomy
Chapter 02 | Command Options
Chapter 03 | Modelling Aids
Chapter 04 | Points
Chapter 05 | Planning

Module 05 | Transforms

Chapter 01 | Essential Tools

Module 06 | Curve Modelling

Chapter 01 | Drawing Curves
Chapter 02 | Editing Curves
Chapter 03 | Extracting Curves
Chapter 04 | Point Editing

Module 07 | Solid Modelling

Chapter 01 | Creating Solids
Chapter 02 | Editing Solids

Module 08 | Surface Modelling

Chapter 01 | Creating Surfaces
Chapter 02 | Editing Surfaces

Module 09 | Meshes Modelling

Chapter 01 | Creating Meshes
Chapter 02 | Editing Meshes

Module 10 | Problem Solving

Chapter 01 |
Chapter 02 |

Module 11 | Advanced Transforms

Chapter 01 | Advanced Transformation Tools

Module 12 | Advanced Curve Modelling

Chapter 01 | Advanced Curve Tools
Chapter 02 | Advanced Curve Editing
Chapter 03 | Advanced Curves from Objects

Module 13 | Advanced Solid Editing

Chapter 01 | Advanced Solid Editing

Module 14 | Advanced Surface Modelling

Chapter 01 | Advanced Surface Tools
Chapter 02 | Advanced Surface Editing
Chapter 03 | Surface Problem Solving

Module 15 | Sub Division Modelling

Chapter 01 | SubD Tools
Chapter 02 | SubD Editing

Module 16 | Applications

Chapter 01 | Industry
Chapter 02 | Projects

Module 17 | Additive Manufacturing (3D Printing)

Chapter 01 | Introduction to Additive Manufacturing (AM)
Chapter 02 | File Requirements
Chapter 03 | Fixing Files

Module 18 | Rendering

Chapter 01 | Rendering Materials
Chapter 02 | Setting up Scenes
Chapter 03 | Setting up Lights

Module 19 | Block Instances

Chapter 01 | Basic Block Instances
Chapter 02 | Settings
Chapter 03 | Editing Block Instances

Module 20 | Advanced SubD Modelling

Chapter 01 | Advanced SubD Tools
Chapter 02 | Advanced Meshes
Chapter 03 | SubD Planning
Chapter 04 | SubD Problem Solving

Module 21 | Design for AM

Chapter 01 | Introduction to DfAM
Chapter 02 | Platforms
Chapter 03 | Materials
Chapter 04 | Design



Rhino 3D Masterclass | Additional Modules

The Rhino 3D Masterclass Additional Modules expands on the courses by adding specific knowledge and skill sets for learners who need to enhance what they know. Some of these modules are industry specific and if we do not have a specific skill set already available, please talk to us so we can set up what you require.

Application Exercises

Each modelling type ends with application exercises where the learner needs to test what they have learned. This requires time and therefore we split the training into weekly classes to ensure the learner has enough time to explore these. A trouble shooting session will be held at the beginning of the new class to answer any questions. Application exercises can be tailored to be industry specific.

Classes

Each class will have 2, 3 hour sessions, with a break in-between. The amount of sessions is determined by workload and pace, bigger groups tend to be slower than one-on-one sessions. Duration of the modules will vary depending on the module, they range from 1-3 days.

Training Requirements

1. Completed the Rhino 3D Masterclass Foundation Course or relevant level of experience
2. Laptop/PC with Rhino 8 installed. (We can also accommodate older versions of Rhino, but note that some modules might not be relevant for older versions)

Course Material

Module 17 | Additive Manufacturing (3D Printing)

Chapter 01 | Introduction to Additive Manufacturing (AM)
Chapter 02 | File Requirements
Chapter 03 | Fixing Files

Module 18 | Rendering

Chapter 01 | Rendering Materials
Chapter 02 | Setting up Scenes
Chapter 03 | Setting up Lights

Module 19 | Block Instances

Chapter 01 | Basic Block Instances
Chapter 02 | Settings
Chapter 03 | Editing Block Instances

Module 20 | Advanced SubD Modelling

Chapter 01 | Advanced SubD Tools
Chapter 02 | Advanced Meshes
Chapter 03 | SubD Planning
Chapter 04 | SubD Problem Solving

Module 21 | Design for AM

Chapter 01 | Introduction to DfAM
Chapter 02 | Platforms
Chapter 03 | Materials
Chapter 04 | Design



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Rhino 3D Masterclass I Sub-Division Modelling

The Rhino 3D Masterclass SubD course delves into the world of Sub-Divisional Modelling. This organic based modelling opens up new doors in regard to what can be done in Rhino. There are two modules, the first forms part of the Rhino 3D Advanced course so if you have already completed that course you only need to do the second module.

Application Exercises

The application exercises will be specific to what you want to achieve. This requires time and therefore we split the training into 2 classes, separated by at least 1 week to ensure the learner has enough time to explore these. A trouble shooting session will be held at the beginning of the new class to answer any questions.

Learning Outcomes

Get introduced to Sub-D Modelling, exploring all the amazing tools it has to offer

Learn how to create models using SubD tools to push new boundaries.

Incorporate our experience in planning and application of SubD into your workflow.

Explore the application of these tools within your projects via Application Exercises, seeing how Rhino can work for you!

Classes

Each class will have 2, 3 hour sessions, with a break in-between. The amount of sessions is determined by workload and pace, bigger groups tend to be slower than one-on-one sessions. Duration of a standard course is 2 days and can be done consecutively or over 2 weeks.

Training Requirements

1. Completed the Rhino 3D Masterclass Foundation Course or relevant level of experience, completed Advanced course will be beneficial but not mandatory.

2. Laptop/PC with Rhino 8 installed. (We can also accommodate Rhino7, older versions does not include SubD Modelling tools.

Module 20 I Advanced SubD Modelling

Chapter 01 I Advanced SubD Tools

Chapter 02 I Advanced Meshes

Chapter 03 I SubD Planning

Chapter 04 I SubD Problem Solving

Module 21 I Design for AM

Chapter 01 I Introduction to DfAM

Chapter 02 I Platforms

Chapter 03 I Materials

Chapter 04 I Design

Additional Modules

Additional modules covering a variety of topics is available to do separately from the course to help refine specific components of Rhino, please look at the Additional Modules page for more information. Please note that we do not advise to do these modules without at least finishing the foundation course as they require base skills learnt in the foundation modules.

Custom courses can also be created by selecting desired. Look at the Custom Course page for more information modules





Course Pricing

Our prices are competitive and a discounts for Students, Educators and Academic Institutions are available, We also have early bird registration discounts on Live courses. Live course facilitation fees are the same for online and studio/on-site sessions with extra fees added for venues, travel, and accommodation depending on location.

Courses

Rhino 3D Masterclass I Foundation Course
R 9 990.00 per learner

Rhino 3D Masterclass I Advanced Course
R9 990.00 per learner

Rhino 3D Masterclass I Custom

Cost are dependent on selected modules, application exercises and outcome requirements, Once you have submitted your initial booking we will contact you to finalise your custom experience and will then give you a quotation.

Rhino 3D Masterclass I SubD

Full SubD Course (Module 1 & 2) @ **R 5 000.00**

Advanced Only @ **R 2 500.00** (for Learners who have completed the Advanced Rhino course)

Academic Discount

Student, Educators and Academic Institutions get a discount of 30%, a valid proof of registration needs to be provided to qualify

Travel and Accommodation Rates:

On-site courses that require the facilitator to travel to the venue and/or another city will be charged additional fees depending on location and duration.

Accommodation & Food @ **R 1 750.00** per day per day per facilitator

Travel by Car @ AA Rates (at time of quotation)

Travel by Air - Destination dependant

Travel by Rental @ **R 750.00** per day + extra km above 200km

If training location is more than 6 hours travel by car or plane an extra day will be charged @ **R 2 500.00** for the facilitators travel time.

Refreshments and Lunches

Refreshments will be provided for studio training only and will include tea, coffee, and small snacks. Please contact us if you have any allergies or dietary specifications. Lunches are not catered for, but we are located close to various options. Lunches can be arranged as an optional extra on request. Please contact us with details.

Bookings:

Bookings need to be made at least 2 weeks in advance to ensure availability. A 50% deposit will reserve your space and full payment will verify your booking. All fees need to be settled before training starts.

Cancellation Policy

Free cancellation up to 14 days before course start. 50% refund if canceled 7-13 days before. No refund for cancellations within 6 days.

Option to reschedule (subject to availability)

Payment Options

South Africa

We accept EFT transfers and cash payments.

International

We accept Paypal and international Bank transfers

Bank Details:

Account Name | The Additive Manufacturing Institute Ltd Pty

Account Type : Cheque

Account Number : 62512213224

Branch Code: 250337

Please send proof of payment to accounts@aminstitute.co.za

The Additive Manufacturing Institute is not registered for vat.



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