



Metashape Professional Edition for Forensics & Surveying Course

DECEMBER 15, 2020 | SIMON BROWN

95% COMPLETE Last activity on September 18, 2024 11:33 am **IN PROGRESS**

Welcome to the Metashape Professional Edition for Forensics & Surveying course, we hope you enjoy the lessons as we share our collective knowledge of photogrammetry and Metashape Professional edition.

This Metashape course builds on the foundations and principles of the Standard Edition course and goes into greater detail in areas such as recursive refinement and optimisation before covering the outputs such as ortho photos and digital elevation models.

The Professional edition application and workflow builds on the basic principles taught in the Standard course. Whilst it remains optional, and not a prerequisite, we encourage even experienced users to work through the Standard Edition (provided for free for Professional Edition buyers) before starting the Pro course.

How to make the most of your Metashape Course

In addition to the comprehensive lessons and practical insights, the Metashape course offers personalised support for your success. Our team of experts is available to assist you with any questions or challenges. Whether you need clarification on advanced techniques or guidance on applying concepts, we are here to help. By leveraging our expert support, you maximize the value of the Metashape course and confidently apply your new skills.

Additionally, our Metashape course also includes access to interactive webinars and Q&A sessions. These live events allow you to engage directly with instructors and peers. Discuss complex topics and gain insights into the latest trends in photogrammetry and Metashape Professional Edition. Participating in these sessions deepens your understanding and helps you network with other professionals in the field.

As you progress through the Metashape course, take advantage of additional resources and knowledge of our experts. These platforms facilitate ongoing learning and discussion. Access valuable knowledge and experiences from fellow learners and industry experts. Staying engaged with these resources helps you enhance your skills and stay updated on the latest developments in photogrammetry and surveying.

In conclusion, please feel free to follow us on LinkedIn to keep up with course updates and more.

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Course Content

Recursive Optimisation

Error Reduction and Bundle Adjustment 5 Topics | 1 Quiz

Lesson Content 100% COMPLETE | 5/5 Steps

- Recursive Optimisation Workflow - Overview
- Reconstruction Uncertainty
- Projection Accuracy
- Reprojection Error
- Image Count

Quiz - Recursive Optimisation

Using Markers

Working With Markers 2 Topics

Lesson Content 100% COMPLETE | 2/2 Steps

- Creating and Placing Blank Markers
- Placing Markers Manually

Markers and Camera Alignment 1 Topic

Lesson Content 100% COMPLETE | 1/1 Steps

- Using Markers To Align Images

Coded and Non-Coded Targets 3 Topics

Lesson Content 100% COMPLETE | 3/3 Steps

- Coded and Non-Coded Targets
- Working with Targets
- Detecting Markers

Semi-Automated Marker Placement 1 Topic | 1 Quiz

Lesson Content 100% COMPLETE | 1/1 Steps

- Semi-Automated Placement

Quiz - Using Markers

References

Scale Bars 1 Topic

Lesson Content 100% COMPLETE | 1/1 Steps

- Scale Bar Constraints

Working with References 4 Topics

Lesson Content 100% COMPLETE | 4/4 Steps

- The Reference Plane
- Reference Settings
- Coordinate Reference Systems
- Importing, Exporting and Converting Reference Data

Ground Control Points & Camera Centres 2 Topics

Lesson Content 100% COMPLETE | 2/2 Steps

- Ground Control Points Explained
- Camera Centres

When Perfect Does Not Exist 1 Topic | 1 Quiz

Lesson Content 100% COMPLETE | 1/1 Steps

- Absent Equipment

Quiz - References

External Orientation

Orientation Quality Assurance 3 Topics | 1 Quiz

Lesson Content 100% COMPLETE | 3/3 Steps

- Error Estimation - Camera Alignment
- Error Estimation - Markers and Ground Control Points
- Sources of Error and Troubleshooting

Quiz - Orientation Quality Assurance

The Metashape Workflow

End-to-End Workflow for Accuracy 1 Topic | 1 Quiz

Lesson Content 100% COMPLETE | 1/1 Steps

- Error Correction Workflow

Quiz - The Metashape Workflow

Working with Block Models

Block Models Explained 1 Topic

Lesson Content 100% COMPLETE | 1/1 Steps

- Working With Blocks

The Dense Cloud

Classifying the Dense Cloud 2 Topics

Lesson Content 100% COMPLETE | 2/2 Steps

- Classifying Dense Cloud Points
- Filtering the Dense Cloud

The Digital Elevation Model

Creating the Digital Elevation Model 3 Topics

Lesson Content 100% COMPLETE | 3/3 Steps

- DEM View Settings
- DEM Definition
- DEM Source - Depth Maps vs Dense Cloud

Working With Digital Elevation Models 3 Topics | 1 Quiz

Lesson Content 100% COMPLETE | 3/3 Steps

- Applications for Planar DEMs
- Applications for Cylindrical DEMs
- Operations with DEMs

Quiz - The Digital Elevation Model

The Orthomosaic

Creating the Orthomosaic 3 Topics

Lesson Content 100% COMPLETE | 3/3 Steps

- Orthomosaic Definition
- Orthophoto Source - Mesh vs Depth Maps
- Editing Orthomosaics

Working with Orthomosaics 2 Topics | 1 Quiz

Lesson Content 100% COMPLETE | 2/2 Steps

- Planar Orthomosaics
- Cylindrical Orthomosaics

Quiz - The Orthomosaic

Working with DEMs and Orthomosaics

Importing, Exporting and Raster Calculator 3 Topics | 1 Quiz

Lesson Content 100% COMPLETE | 3/3 Steps

- Exporting Orthomosaics and DEMs
- Importing Orthophotos and DEMs
- The Raster Calculator

Quiz - Working with DEMs and Orthomosaics

Working with Laser Scan Data

Importing Laser Scan and Point Cloud Data 3 Topics

Lesson Content 96% COMPLETE | 3/3 Steps

- Working with Laser Scan Data
- Importing and Working With Point Clouds
- Aligning Laser Scans With Cameras

Stereoscopic Cameras

Working with Stereoscopic or Multiple Cameras 1 Topic

Lesson Content 100% COMPLETE | 1/1 Steps

- Metashape and Multiple Cameras

Edit

OUR CUSTOMERS:

OUR BLOG:

- Preserving History with Photogrammetry: AccuPixel's WWII Anti-Tank Barricades Photogrammetry Documentation
- Photogrammetry in the UK
- Photogrammetry Course Update - Working with Model Blocks