DM

dark matter composites Itd

| Course Title: | Trimming, Finishing & Assembly of Composites |
|---------------|------------------------------------------------------------------------|
| Course Code: | DMSC57 |
| Course Fees: | £2,000.00 course fee plus £400.00 UK VAT (£2,400.00 per delegate) |
| Structure: | 30% theory, 70% practical, 8 delegates maximum, no experience required |

Summary

This course provides comprehensive training, understanding and application of a full range of trimming, finishing and assembly techniques associated with composite parts. Emphasis is on the safe and effective use of a range of hand, power and bench tools applied to composite materials. As there are no speeds or feeds tables for composite materials, the course includes selection and use of the right abrasive or cutting head for the right materials to give the best results.

This course is suitable for anyone involved with trimming, finishing and assembly of composite parts, including technicians, supervisors, CNC operators, engineers, designers, researchers and managers.

Course Content

| | 09:00 – 11:00 | 11:15 – 13:15 | 13:45 – 15:45 | 16:00 – 18:00 | | | |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Monday | Introduction Equipment issue Health & Safety <u>Theory</u> Introduction to composites theory, materials & processes | Theory Types, uses & control of engineering sketches & drawings <u>Practical</u> Interpreting & extracting information from engineering sketches & drawings | <u>Theory & Demos</u> Identifying materials and processes used for composite parts Safe handling of unfinished parts <u>Theory & Demos</u> Measuring & marking out composite parts | Practical Measure & mark a range of features on a range of composite parts/materials using surface tables, height gauges, scribes, rules & jigs | | | |
| Tuesday | <u>Theory & Demo</u> Trimming, sanding & finishing overview Cutting & abrasive materials & grades Planning operation sequences | <u>Theory & Demo</u> Safe use of air and electrical power tools Dust generation, control & extraction Defects caused by trimming activities | <u>Theory & Demos</u> Edge damage and de-lamination Setting up & safe use of band saws, disc cutters routers and saws <u>Practical</u> Cut a range of profiles in a range of composite parts/materials using a range of tools and jigs | | | | |
| Wednesday | Filing & sanding co Edge & surf Setting up & safe use of li grinders, belt sande <u>Prac</u> Final shaping and surfac features in a range of co | <u>& Demos</u> omposite materials ace finishing inishers, disc sanders, die ors & orbital sanders <u>stical</u> ce finishing of a range of omposite materials using ols and jigs | <u>Theory & Demos</u> Drilling & boring composite materials Break through, laminate support and back drilling Setting up & safe use of pedestal drills, low speed and high speed hand drills <u>Practical</u> Drill & bore a range of hole features in a range of composite parts/materials including small/large holes, counter sinks, counter bores, inserts, carbide & diamond tips & drill jigs | | | | |
| Thursday | <u>Theory, Demos &</u> <u>Practical</u> Cleaning & polishing composite materials using compounds, abrasives & polishers | Composite Adhesive Surface p Peel | os & Practical assemblies bonding reparation plies cation & curing | Discussion & Practical Inspection, evaluation and review of all activities completed Assessment briefing | | | |
| Friday | Including planning ope | <u>Assessed Practical</u> assemble a range of test o drawings erations, selection of correct ive techniques & final asse | tools, cutting heads & | <u>Reinstate Workshop</u> <u>Written test</u> <u>Equipment return</u> <u>Summary / Feedback</u> | | | |



Composite Course Schedule 2024

We provide the most comprehensive range of composite training courses available. Delegates regularly attend our courses from all industry sectors worldwide which are suitable for individuals and small companies through to tier one suppliers and OEMs.

We are continually involved in training industry personnel for the next generation of composite parts. Our courses are recognised as demanding, rewarding and representative of current best practice and processes and are continually updated. Our tutors are industry experts and our facilities set the standards for best practice and are specifically designed for delivery of composite training courses.

| Course Code | Title | Price per Delegate (incl. 20% UK VAT) | Course Dates |
|----------------|----------------------------------------------------------------------------|------------------------------------------|---------------------------------------------|
| DMSC50 | Introduction to Composite Materials & Processes | £2,040.00 | please call/email us for further details |
| DMSC51 | Wet Lay-Up Laminating | £2,040.00 | 15-19 April 2024 |
| DMSC52 | Spray Lay-Up Laminating | £2,040.00 | please call/email us for further details |
| DMSC53 | Resin Infusion Laminating & Light RTM | £2,040.00 | 22-26 April 2024 |
| DMSC54 | Pre-Preg Laminating – Stage 1 | £2,040.00 | 11-15 Mar 2024 11-15 Nov 2024 |
| DMSC55 | Pre-Preg Laminating – Stage 2 | £2,040.00 | 18-22 Nov 2024 |
| DMSC56 | Pre-Preg Mould Making | £2,400.00 | 13-17 May 2024 |
| DMSC57 | Trimming, Finishing & Assembly of Composites | £2,400.00 | 10-14 Jun 2024 |
| DMSC58 | Composite Repair – Stage 1 | £2,400.00 | 18-22 Mar 2024 14-18 Oct 2024 |
| DMSC59 | Composite Repair – Stage 2 | £2,400.00 | 21-25 Oct 2024 |
| DMSC60 | Producing Your Own Composite Parts | £2,040.00 | 3-7 Jun 2024 |
| DMSC61 | Composites for Engineers & Designers Stage 1 - Materials & Processes | £2,040.00 | 29 Jan – 2 Feb 2024 9-13 Sep 2024 |
| DMSC62 | Composites for Engineers & Designers Stage 2 - Advanced Design | £2,040.00 | 16-20 Sep 2024 |

Bespoke Training Courses

If you cannot find a course to suit your needs, bespoke courses can also be provided for individuals through to full company training programmes, worldwide at the customers' own facilities or at our premises. Pricing is dependent on location, delegates and course content. Please contact us to discuss your needs.

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Entry Requirements

No qualifications or previous experience is required unless otherwise stated on the specific course information sheet. If you are unsure please contact us.

Enrolments

- Enrolments are taken on a first come, first served basis. We require either an on-line booking or a completed enrolment form and full payment.
- On receipt of your booking/enrolment form, we will process your payment if there are places available on the course and issue a full course confirmation.
- If the course is full, your payment will not be processed and you will be advised accordingly.
- Please note that we do not take provisional bookings or hold any places. Course confirmations are only sent if places are available and full payment has been received into our account.

Payment

We accept the following forms of payment and can provide companies with pro-forma invoices where required:

- Credit and Debit cards including Mastercard, Visa, Maestro, Solo and American Express
- · Personal or Company cheques payable to 'Dark Matter Composites Ltd'
- Paypal
- BACS, CHAPS or IBAN bank transfers

Course Fees

- The fees are stated on the individual course information sheets and are per delegate per course.
- Course fees stated are in pounds sterling and are subject to UK VAT at the current rate (20%).
- EU companies may be able to reclaim UK VAT through their local VAT system.
- Non-EU delegates cannot reclaim the VAT as the course is a service provided in the UK and not an
 exported product.
- The fees stated are valid until 31st December 2024.
- All fees stated include: provision of all materials, tools, equipment and protective clothing (except footwear, see below); lunch, tea & coffee for each day of the course; and course handouts.
- All course fees must be paid prior to the start of the course.
- Items produced by delegates can be taken away at the end of the course.

Location

Our courses are run at our dedicated training facilities in Redbourn, Hertfordshire, United Kingdom. We are close to London with good travel links to Central London and all London Airports, with London Luton Airport just 8 miles away. There are good transport links to the M1/M25 motorways and train links at the local towns of Hemel Hempstead, St Albans, Harpenden and Luton.

Times & Attendance

Each day starts promptly at 9am and finishes at approximately 6pm, Monday to Friday.

Clothing, tools and equipment

- Delegates must wear full-length trousers and closed leather shoes or safety boots (no fabric, perforated or open footwear) during the course.
- All other tools, equipment and personal protective equipment are included in the course fee.

Course Assessment

Assessment activities are built into our courses, to give feedback on the achievement and potential of delegates. Delegates are assessed on their attendance, quality of practical work completed and a written test. Assessment marks are printed on the course certificates and kept on record.

Exclusions

Travel, accommodation and general sustenance expenses incurred by delegates are excluded from the course prices (except where otherwise stated).

Accommodation

Please note that we have an accommodation list that is available on our website or upon request.



COURSE ENROLMENT FORM

Please complete the form in BLOCK letters

| Course Code | Course Title | Course Date | Course Fee |
|-----------------------|---------------------|-------------|------------|
| Where did you find ou | t about the course? | | |

Personal Details

| Title | First Name S | | | me | Date of Birth | | |
|----------------------------------|--------------|------------------------|----------|----------|---------------|--|--|
| Address | | | | | | | |
| | | | | Postcode | | | |
| Telephone No | | Mobile No. | | Email | | | |
| Do you have a If 'Yes' please | | ary requirements or sp | ecial ne | eds? | Yes / No | | |

Employer or Emergency Contact Details

| Company and/or Contact Name | Telephone No. |
|-----------------------------|---------------|
| Address | |
| Posto | code |

I confirm that I agree to the 'Course Enrolment Conditions' and that the information given above is correct. For applicants under 18 years old at the start of the course, I also confirm that I am a parent/legal guardian/employer (please delete as appropriate) of the applicant and give my consent for them to attend the course.

| Name | e Signatu | e | Date |
|------|-----------|---|------|
| | ····· · | | |

Payment

- Personal/Company cheque enclosed, payable to 'Dark Matter Composites Ltd'
- UK Bank Transfer (payment details shall be provided upon enrolment receipt)
- □ International Bank Transfer (payment details shall be provided upon enrolment receipt)
- □ Paypal (we will send out a payment request on receipt of this application)
- Credit Card

| Card Type | Mas | MasterCard / Visa / Maestro (Switch) / Visa Electron / Solo / American Express | | | | | | | | | | | | | | |
|-------------------------|----------|--------------------------------------------------------------------------------|--|--|--|--|----------------------------|-------------|-------|-----|--|--|--|--|--|--|
| Card Number | | | | | | | | | | | | | | | | |
| Start Date | | | | | | | | Expiry Date | | | | | | | | |
| Security Number | | | | | | | Issue Number (switch only) | | | | | | | | | |
| Name on Card | | | | | | | | | | | | | | | | |
| Card Billing Address | | | | | | | | | Dooto | odo | | | | | | |
| | Postcode | | | | | | | | | | | | | | | |

Please email completed forms to <u>info@darkmattercomposites.co.uk</u>. On receipt, we will process your enrolment and payment. Full course confirmations shall only be sent once payment has cleared.

t/f +44 (0)1582 791001 www.darkmattercomposites.com Unit 8 Redbourn Industrial Estate, High Street, Redbourn, Hertfordshire, AL3 7LG, UK Issued 01/2024 Registered in England & Wales No: 5395870

Course Enrolment Conditions

- These Course Enrolment Conditions apply to all training services provided by Dark Matter Composites Ltd (DMC). Customer's Terms & Conditions or deviations from these are not applicable unless agreed in writing.
- 2. It is the customers' responsibility to check that the course is suitable for its delegate(s) training needs. We shall advise on course content and anticipated outcome as requested.
- 3. Enrolments are taken on a first come, first served basis and shall only be confirmed on receipt of completed enrolment forms and receipt of full payment.
- 4. For company and group bookings, an enrolment form must be completed for each delegate.
- 5. Courses will be confirmed as running as soon as sufficient applications are received and no later than 2 weeks prior to the course start date. Bespoke courses will be confirmed on receipt of full course payment.
- 6. All course fees are per delegate per course and include: provision of all materials, tools and protective clothing (except footwear, see below); lunch, tea & coffee for each day of the course; and course handouts.
- 7. Payment of course fees are due prior to the course start date. Prices stated are in pounds sterling.
- 8. Travel, accommodation and general sustenance expenses incurred by delegates are excluded from the course fees (except where otherwise stated).
- 9. Cancellations by delegates prior to the course will be refunded on the following basis: 14 calendar days or more 80%; less than 14 calendar days no refund. If a cancellation is unavoidable by DMC, an alternative date or full refund will be given.
- 10. Transferral of bookings applies to a change in course or course date and must be completed 14 calendar days prior to the start of the original course booking. Each transferred booking, will be subject to an administration and materials charge equivalent to 20% of the course fee. A maximum of two booking transfers will be processed. Outside of these transfer terms, cancellation terms will apply.
- 11. Delegates must advise DMC of any dietary requirements or special needs on enrolment.
- 12. The outcome and achievement of delegates is based upon the ability and attendance of the individual delegates.
- 13. DMC shall not be liable for any kind of damage arising directly or indirectly out of or in connection with the performance or non-performance of the training, unless such damages are caused by the gross negligence or intent of DMC or its employees.
- 14. Delegates attending DMC courses must comply with safety procedures covered at the start of and during each course. DMC seeks to achieve the highest standards in health, safety and the environment and anticipate that customers and their delegates will assist us in achieving these objectives.
- 15. Delegates must wear full-length trousers and closed leather shoes or safety boots (no trainers or fabric footwear) during the course. Delegates who do not wear appropriate clothing and footwear will not be able to take a full part in practical sessions.
- 16. Marked tools and equipment shall be issued and checked with delegates at the start of the course. Delegates may be charged for tools and equipment not returned.
- 17. Copyrights on licensed material provided by DMC remain with DMC. Copyrights on third party licensed materials remain with identified third parties. Licensed materials include but are not limited to all course documentation, manuals and instructions in electronic or printed form. The Customer/Delegate shall not copy, make accessible or distribute licensed material to third parties without DMC's prior written consent.
- 18. The Customer/Delegate acknowledges and agrees that a breach of copyright cannot be compensated adequately by an award of damages or indemnity or other pecuniary remedy and DMC shall be entitled in the event of any such breach to the remedies of injunction specific performance or other equitable relief to redress any such breach.
- 19. DMC will treat any information about delegates and/or any internal business information of the Customer/Delegate as confidential.
- 20. The validity, construction and performance of these conditions shall be governed by the Laws of England.

t/f +44 (0)1582 791001 www.darkmattercomposites.com Unit 8 Redbourn Industrial Estate, High Street, Redbourn, Hertfordshire, AL3 7LG, UK Issued 01/2024 Registered in England & Wales No: 5395870