



Project Team

- Kevin Cartwright
- Tom Marren
- Ian Turner
- Sam Jones
- Jeremy Sage

UKWF Metrology Certificate and UKWF Apprentice Metrology Diploma

18th April 2024

UKWF Metrology Certificate Training Course



- The SECOND UKWF course took place in February 2024
- We hosted:
 - 9 In-Person Delegates
 - 3 Online Delegate
- Just for info, you will see the “swing” towards the in-person training!
- We fully appreciate that the costs to you are higher, but it is really good to see our members investing in their employees and their businesses !



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Again, a big thank you to Ian and Jeremy (who is away on holiday) for developing and delivering the course content!



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The Delegates all sat an exam at the end And they all Passed!

I would like to do the honour of presenting any delegates that are here with their unique Certificates.

UKWF Metrology Certificate Training Course



- In-Person Training Delegates:

Darren Valentine	Avery Berkel
Joel Bushby	D Brash & Sons Ltd
Zack Lloyd	D Brash & Sons Ltd
Andy Reece	Marco Limited
Dave Beasley	Marco Limited
Lee Fitzgerald	Marco Limited
Taylor Bebbington	Precia Molen UK Ltd
Torjion Budhal	Precia Molen UK Ltd
Steven Brown	SCOTWEIGH LTD
David Rawes	Womag Weighing Limited



UKWF Metrology Certificate Training Course



- Online Training Delegates:

Adam Huggings	Accuweigh
Manoj Patel	Avery Berkel
Dan Hills	Metroweigh limited



UKWF Metrology Training Course



- **Course feedback:**
- General feedback I have received has all been very positive (especially for new people to the Industry)
- Some improvements were made before the February course (both content and IT) and the February training was smoother
- We have two more courses planned this year:
 - W/C 20th May 2024 – we are OPEN for bookings now
 - W/C 16th September 2024

Slide from our last meeting

UKWF Apprenticeship Metrology Diploma

- The team will now start to focus on the Apprenticeship Diploma
- Once we have the number of Apprentices, the team will:
 - Finalise the costs involved with running the Diploma
 - Discuss with participating members:
 - Split of In-Person and Online
 - Content
 - Duration (we originally suggested 15 days)
- Ian and Jeremy will have a lot more content to write for the Diploma, so we will start to plan for this too



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Module	Weighing industry - technical
1	Units of measure; legal metrology and SI units
	Weights (material, form, tolerances, traceability, OIML R111)
	Calibration of mass standards
	Calibration (purpose, process, different procedures, test weights)
	UKAS calibration standard
2	Compatibility of modules
3	Load cell types and applications
	Tank and vessel weighing
	Different weighing technologies (force motor, tuning fork, etc.)
	Out-of-level detection and correction
4	Automatic weighing instruments
	Applications (recipe/batch weighing, SQC/average weight, etc.)
5	UK primary and secondary legislation
	Background and context of modules (A-H1)
	Declarations of conformity and conformity marking
	International organisations (OIML, WELMEC, EU, CEN/CENELEC) and respective publications
6	Quality systems, traceability, document management
	Good manufacturing practice (GMP) and good laboratory practice (GLP), 21 CFR part 11, USP chap 41
7	Fixings, fastenings and fabrication
	Manufacturing and production
	Laying out and fitting
8	Newton's laws
	Calculation of forces
	Stress/strain, Hooke's law, elastic & plastic deformation
	Structures
9	Properties of materials
	Corrosion and corrosion protection
	IP ratings
10	Installation
	Electrical safety
	Control systems (e.g. filling system)
	PLCs
11	Programmable indicators
	Data communication
	PLC programming
	PC programming and databases
12	Understanding engineering drawings
	Understanding electrical drawings
13	ATEX basic principles
14	General legal requirements for businesses
	Typical health and safety policies and procedures
	Health and safety aspects of the weighing industry
15	Assessment

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UKWF Metrology Certificate and Apprentice Metrology Diploma Summary



- We have successfully completed 2 UKWF Metrology Certificate Courses
 - Almost 30 delegates trained to-date
- A third UKWF Metrology Certificate course planned for next month
 - And a fourth planned for September
- Our focus now turns to the UKWF Apprenticeship Metrology Diploma
 - Draft course content now defined, ready for you all to review later
 - Delivery method has been considered, ready for you all to review later
 - Once this is all agreed, we can look at pricing
- Our plan is to start to deliver the UKWF Apprentice Diploma training mid 2025
 - So, in the meantime, start recruiting your Apprentices!



Questions

