


SKILLS FACTORY BITESIZE COURSES

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| COURSE TITLE Electric Motors & Drives – understanding and troubleshooting. | |  |
| Who should attend: <i>(level, suitability, what the individual can gain)</i> Mechanical maintenance fitters looking to multi-skill into electrical diagnosis of motor & drive systems. | Course structure: <i>(e.g. type of delivery, classroom, practical, simulated etc.)</i> 1 day total. 0.5 day theory + 0.5 day practical troubleshooting. | |
| Benefits of attending: <i>By the end of the course the delegates will be able to....</i> <ol style="list-style-type: none"> 1) Understand the different types of electric motors and drives commonly found in manufacturing companies. 2) Understand the typical applications of the different motor / drive systems. 3) Test & Troubleshoot electric motor/ drive systems to identify faults. Understand what outputs should be. 4) Be able to replace like for like components (contactor / relay) and inspect/test the circuit. | Key topics: AM – Theory <i>Explanation of basic principles & basic construction of different types of AC & DC motors and their associated drive systems. Synchronous & asynchronous motors , servo, stepper motors. Brushed & brushless DC motors.</i> <i>Explanation of different applications and pros and cons of the motor types.</i> PM – Practical <i>Testing of various motor & drive circuits Identifying various faults on motor & drive test circuits. Exchanging contactors & relays on motor circuit. Inspection and test of circuit after exchange.</i> | |
| Duration / Dates & Times of Course: 1 Day. 08:00 – 08:30 Coffee 08:15 – 16:00 Course (45min lunch) 16:00 – 16:20 Course review | Location / Address / Tutor: Dudley College, The Broadway, Dudley, DY1 4AS. Tutor :- Mark Bircher – course ‘designer’ Tutor tba. | |
| Cost: Full Cost of course: £190 per day Skills Factory Subsidy - £60 per person (per day) Please note you will be charged at the full amount by the college and will receive the subsidy difference from the Skills Factory after course completion | Assessment : Short written assessment. Successful completion → stamp on SkillsPassport Followed by course review with Skills Factory. | |

To find out more or book a place on the course, please contact:

bookings@blackcountryskillsfactory.co.uk

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