| Sl. | NOS | Questions | Option A | Option B | Option C | Option D | Correct Answer | Difficulty Level | Marks |
|---|---|---|---|---|---|---|---|---|---|
| 1 | ELE/N6703.Design the Motor and Transmission Control system | What is the first step in the motor and controller design process for electric vehicles? | Start designing immediately | Order components | Interpret EV level specifications set out by Customer or Management | Build prototype | C | M | 4 |
| 2 | ELE/N6703.Design the Motor and Transmission Control system | EV specifications must be _____ into Motor and Transmission Control system level specifications for detailed design work. | ignored | translated | simplified | copied | B | E | 3 |
| 3 | ELE/N6703.Design the Motor and Transmission Control system | You are designing a motor control system. What should you do to ensure comprehensive design consideration? | Select first option found | Copy competitor designs | Use only one design approach | List various design options and specifications available at each component level | D | D | 5 |
| 4 | ELE/N6703.Design the Motor and Transmission Control system | What parameters should guide the evaluation of each design option for motor and transmission systems? | Only cost | Safety performance and cost | Only aesthetics | Only weight | B | M | 4 |
| 5 | ELE/N6703.Design the Motor and Transmission Control system | A proper _____ must be selected to generate sufficient electrical power for vehicle movement. | battery | motor | controller | transmission | A | E | 3 |
| 6 | ELE/N6703.Design the Motor and Transmission Control system | You need to specify the motor for a new electric vehicle with specific torque and speed requirements. What should guide your selection?  | Random selection | Motor specification matching EV power and performance requirements | Cheapest motor available | Largest motor available | B | D | 5 |
| 7 | ELE/N6703.Design the Motor and Transmission Control system | What component controls the energy flow from the battery to the motor in an electric vehicle? | Transmission | Clutch | Differential | Motor controller | D | E | 3 |
| 8 | ELE/N6703.Design the Motor and Transmission Control system | The specification of gears clutch and _____ must be selected for transmitting power to the wheels. | differentials | batteries | controllers | sensors | A | E | 3 |
| 9 | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | Before finalizing the power transmission system design what should you do? | Skip all testing | Test only at the end | Identify design areas where checking and testing is essential | Assume design is correct | C | M | 4 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | When communicating design specifications to stakeholders what type of instructions should be used? | Complex technical jargon | No instructions needed | Mathematical equations only | Simple instructions that stakeholders can understand | D | E | 3 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | Routine _____ of the design should be performed for different parameters to ensure quality. | evaluation | approval | marketing | packaging | A | E | 3 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | You have completed the motor controller design. What comprehensive testing is required? | Visual inspection only | Test entire power transmission system design as per specifications | Test only one component | Skip testing if design looks good | B | D | 5 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | What should be created to validate the motor and controller design if necessary? | Marketing brochure | Sales presentation | Final production unit | Prototype design of the activation system | D | E | 3 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | Testing must comply with globally accepted _____ standards for technical specifications. | local | optional | regulatory | flexible | C | E | 3 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | During extensive testing of motor controllers you need to maintain documentation. What is the proper approach? | Create logbook to maintain test records | Mental notes only | Verbal reports only | No documentation needed | A | D | 5 |
| # | ELE/N6704.Inspect, test and implement the Motor and Transmission Control system | What specialized equipment is used for multi-channel temperature monitoring in motor testing? | Basic thermometer | Visual inspection | Temperature tester with multi-channel monitoring measuring and recording | Manual touch testing | C | M | 4 |
| # | ELE/N9905.Work effectively at the workplace | Engineers must identify and obtain clarity regarding organizational team and own _____ and targets. | preferences | opinions | hobbies | goals | D | E | 5 |
| # | ELE/N9905.Work effectively at the workplace | You have multiple design tasks with different deadlines and priorities. What should you do? | Work randomly | Prioritize and plan work to achieve goals and targets | Do easiest tasks only | Ignore deadlines | B | D | 8 |
| # | ELE/N9905.Work effectively at the workplace | How should engineers track progress toward project completion? | Ignore performance | Only check at project end | Monitor own and team performance as per agreed plan | Random assessments | C | M | 7 |
| # | ELE/N9905.Work effectively at the workplace | All duties must be completed accurately systematically and within required _____. | timeframes | budget | meetings | presentations | A | E | 5 |
| # | ELE/N9905.Work effectively at the workplace | During a challenging project you feel frustrated about a design setback. How should you handle this? | Yell at colleagues | Express emotions appropriately and manage response to heightened | Quit the project | Ignore the problem | B | D | 8 |
| # | ELE/N9905.Work effectively at the workplace | What workspace standards should be maintained in the design engineering area? | Complete chaos | Disorganized files | Cluttered workspace | Orderliness and cleanliness in work area | D | M | 7 |
| # | ELE/N1002.Apply health and safety practices at the workplace | Engineers must identify job-site _____ and possible causes of accidents in the workplace. | profits | opportunities | hazards | schedules | C | E | 4 |
| # | ELE/N1002.Apply health and safety practices at the workplace | You notice a high voltage testing area without proper warning signs. What should you do?  | Ignore it | Comply with safe working practices and observe hazard signs in all work areas | Proceed with caution | Remove the signs | B | M | 7 |
| # | ELE/N1002.Apply health and safety practices at the workplace | What must be used based on task requirements and hazard severity in the workplace? | Appropriate personal protective equipment (PPE) | Casual clothing | Any available gear | No special equipment | A | E | 5 |
| # | ELE/N1002.Apply health and safety practices at the workplace | Standard safety _____ must be followed while handling tools equipment and hazardous substances. | shortcuts | procedures | preferences | suggestions | B | E | 4 |
| # | ELE/N1002.Apply health and safety practices at the workplace | You have electronic waste from prototype testing including batteries with heavy metals. How should you dispose of it? | Regular trash | Bury it on site | Burn it | Dispose as per industry approved techniques for e-waste | D | D | 8 |
| # | ELE/N1002.Apply health and safety practices at the workplace | What procedures must be followed to avoid component damage during handling? | No special procedures | Rough handling acceptable | Speed over safety | ESD (Electrostatic Discharge) procedures with proper grounding | D | M | 7 |

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| # | DGT/VSQ/N0103.Employability Skills (90 Hours) | Engineers must follow verbal and non-verbal communication _____ while communicating in professional settings. | shortcuts | rumors | etiquette | jokes | C | E | 4 |
| # | DGT/VSQ/N0103.Employability Skills (90 Hours) | During a design review meeting a colleague is explaining a complex motor control algorithm. How should you ensure understanding? | Pretend to understand | Use active listening techniques for effective communication | Interrupt constantly | Ignore the explanation | B | M | 8 |
| # | DGT/VSQ/N0103.Employability Skills (90 Hours) | How should technical documentation and reports be written? | Using appropriate style and format based on formal or informal requirements | Any random style | Only informal language | No specific format needed | A | E | 4 |
| # | DGT/VSQ/N0103.Employability Skills (90 Hours) | Motor and controller design engineers must work _____ with others in a team for successful project completion. | alone | collaboratively | competitively | independently | B | E | 4 |