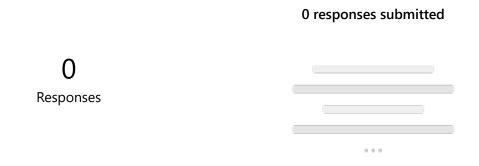
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2. Career Center Discovery Framework 16 (0 point)



3. Psychometric Assessment Services 16 (0 point)

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4. Life Stage Development (Ages 0–80) 16 Key Phases 1 6 (0 point)	16 School Readiness & Learning Support 1
	0 responses submitted
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5. ICT & Technical Skills Academy (0 point)	
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6. Chapter 1.02: Knowledge vs Intelligence (0 point)	
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7. The Chinese Room Argument (0 point)

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O Responses	* * *
8. Key (0 point)	
O Responses	0 responses submitted
9. Data as Fuel for Al 23 Why It Matters 23 Chapter 1.03: Matters 23 Real-World Example: Music Streaming 23 (What Are Patterns? 24 Social Media & Business 24 Wh	Chapter 1.04: Finding Patterns in Data 24
O Responses	0 responses submitted
10. CX Live Chat Setup Guide 27 • Configuration URL 28 tatus: In Progress 28 Lessons Covered 28 (0 point)	Al Fluency Course Progress 28 Current S
	0 responses submitted
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14. : Subject Criteria (0 point)

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4 of 75

O Responses	* * *
15. 9 Phase 3: University & Postgraduate Criteria (0 poir	nt)
	0 responses submitted
O Responses	0 0 0
16. 9 5.3 Procurement Requisition 30 自 Sample Items 3 ct Background (0 point)	0 5.4 Purpose of Submission 30 5.5 Proje
	0 responses submitted
O Responses	* * *
17. 5.6 Financial Implications 30 (0 point)	
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O Responses	

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18. Discovery Topics & Research 31 * Question: How Do You Build Yourself a Bright Technical Fut ure? 32 Explanation: Consider a Technical Career—Let's Get Down to It 32 (0 point)

O Responses	0 responses submitted
19. Explore Through Science Centre Programmes 32 (0 բ	point)
O Responses	0 responses submitted
20. Engage with Career Mentoring & Expo Platforms (0	point)
O Responses	0 responses submitted
21. 3. Develop a Research-Based Project (0 point)	0 responses submitted

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Responses	

22. Learner Profile (0 point)	
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23. Abstract 33 (0 point)	
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24. MERSETA: Manufacturing & Engineering SETA 52 (0	point)
	0 responses submitted
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Responses	

25. Financing Your Studies 53 (0 point)

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O Responses	***
26. Career Development Compendium: Chemical, ICT, TER 1: Chemical Industry Careers (CHIETA) 53 (0 pc	
	0 responses submitted
O Responses	0 0 0
27. Marine & Coastal Engineering 58 (0 point)	
O Responses	0 responses submitted
28. Geo-Synthetic Road Reinforcement 59 (0 point)	
	0 responses submitted
O Responses	

29. Management & Drone Integration 59 (0 point)

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30. Parametric Optimization of Railway Track Structures 59 (0 point)

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31. Supporting Documentation & References 60 Multidisciplinary Technical Reference Guide (0 p oint)

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32. Civil Engineering & Infrastructure Projects 62 (0 point)

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O Responses	* * *
33. Automotive Systems & (0 point)	
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34. Technical Manuals 62 (0 point)	
O Responses	0 responses submitted
35. Security Training & Certification 63 (0 point)	
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O Responses	

36. Telecommunications & Internet Systems 63 (0 point)

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O Responses	
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37. Reference & Research Resources 63 Security Services Training & Legal Reference Guide 64 自 2X 3. PSIRA Grading & Roles 65 4. SASSETA Skills (0 point)

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O Responses	
38. Programmes 65 (0 point)	* * *

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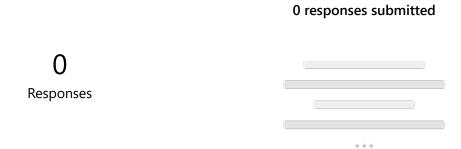
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39. Legal Documentation & Court Procedures 65 (0 point)

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40. Resource & Order Management 66 1 7. Administrative & Legal Filing 66 Final Notes 67 Work place Learning F (0 point)



41. Employer & Training Provider Responsibilities 68 Legal Filing & Case Management 69 (0 poin t)

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Responses	

42. CCMA Strategic Goals & Performance Metrics 70 1 3. Agreement Terms & Conditions 68 4. Jo b Saving & Training Schemes 70 7. Public Sector Recognition 70 Workplace Equity, (0 point)

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43.	Employ	vment Ed	auity F	Planning	(Department	of (0	point)
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O Responses	0 responses submitted
44. Learnership Agreement & SETA Compliance 72 E (0	point)
O Responses	0 responses submitted
45. CCMA Strategic Goals & Labour Market Impact 73 (() point)
O Responses	0 responses submitted
46. NSF Innovation & (0 point)	0 responses submitted

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47. Combat Engineering & Military Readiness 74 Firearm Training & Self-Defense 75 4. Automoti ve Systems & Diagnostics (Honda Civic 6. Road Test & 金 (0 point)

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48. Home Security & Safety Systems 74 (0 point)	

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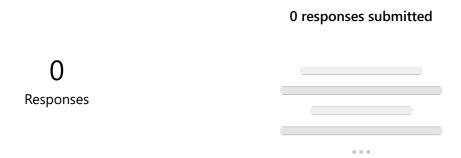
49. Reference) 75 5. Electronics Projects & PCB Design (EPE Reference) 76 Vehicle Performance 76 7. Technical Casebooks & Motor Manuals 77 (0 point)

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50. Labour Appeals & CCMA Rulings 77 (0 point)

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Responses	
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51. 3. SAQA Foreign Qualification Evaluation 5. Academic Portfolio & Evidence Development 79 (0 point)



52. Support & Follow-Up 80 Summary of Key Elements 80 Academic and Institutional Details 80 Portfolio Components 80 Next Steps for Your Enquiry 81 V Suggested Structure for Curriculu m and Evaluation Framework 81 Police (0 point)

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O Responses	
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53. Portfolio of Evidence (PoE) 89 咖 Curriculum & Assessment Framework 90 Trade Test & Vocati onal Modules 90 Psychometric & Aptitude Testing (Ref 62. (0 point)

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Responses	

54. 91 Suggested Portfolio (0 point)	
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55. 自 (0 point)	
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56. Learnership Agreement Structure (FP&M SETA) 67 (0) point)
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	ring N	∕lodules 9₄	4 Policing	& Law	Enforceme	ent Sy	stems 9	4 (0 ₁	point)			

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58. Thermoelectric Cooling (TEC) 97 Binary Systems 97 t	National Exam Documentation 97 (0 poi
	0 responses submitted
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59. 2 34 ICT-Based Education & Assessment (0 point)	
	0 responses submitted
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60. Exam Records & Assessment Guidelines 99 N1–N6 Exam Documentation 99 Portfolio Evidenc e & Institutional Records 99 Portfolio Components 99 SAQA Foreign Qualification Evaluation 100 (0 point)

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61.

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O Responses	
	* * *
SAQA Letter Summary 100 Final Portfolio Structure nce (PoE) 100 Final Portfolio Summary: Comprehen ofile 101 Portfolio Structure & Contents 101 Pocket	sive Evidence & Verification 101 Learner Pr
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Academic & Vocational Records 111 (0 point)	
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	64.	Develo	opment	115	(0	point)
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65. Learner Profile 99 NATED - Career Development & Orientation 102 √ Final Submission Guida nce 103 (0 point)

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66. Artificial Intelligence Development Labs 129 3155BIO9 129 (0 point)

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67. Educational Scope 142 Digital & E-Learning Integration 142 • Lab Configuration (0 point)

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68. Theory Topics 148 (0 point)	
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69. Module 4: (0 point)	
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70. Organizational Structure of ITIs 150 (0 point)	
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71. Exercise 1.1.02 & 1.1.03: Road Safety & Traffic Signals 152 Police Hand Signals 152 Traffic Ligh

t Signals 152 Objectives Objectives 152 Types of Road Signs 152 Road Markings 152 Causes of Collisions 153 Safety Practice: Responsibilities & Safety Signs 153 (0 point)

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72. Employer Responsibilities 153 Employee Responsibilities 453 Employee Responsibilities 454 Em	lities 153 Exercise 1.1.04 & 1.1.05: Fire Saf
	0 responses submitted
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73. Four Categories of Safety Signs (0 point)	
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74. Extinguishers 154 Objectives 154 (0 point)	
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81. First Aid Diagnostics (0 point)

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82. Causes of Shock (0 point)	
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83. S Symptoms (0 point)	
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84. sos First Aid for Shock (0 point)	
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85. Treatment of Electric Shock (0 point)

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86. Immediate Actions (0 point)	
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87. A Electrical Burns 161 Waste Disposal in Workshop Disposal Methods 161 Objectives 161 Types of Wa	
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88. Objectives (0 point)	
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89. Benefits of Shop Floor Maintenance (0 point)

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90. Common Cleaning Procedures (0 point)	
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91. Cleaning Methods 163 SOP Guidelines 163 5S System: Workplace Organization 163 Benefits of 5S 163 Exercises 1.1.11 to 1.1.14: Electrician Hand Tools 163 Objectives 163 Common Electrician Tools 163 Tool Maintenance Tips 164 Exercise (0 point)

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Responses

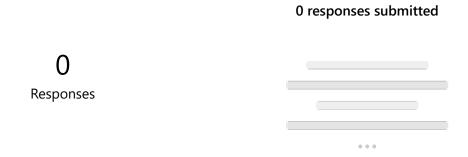
92. 10: Shop Floor Maintenance & Cleaning Practices 164 Objectives 164 Benefits of Shop (0 poin t)

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93. Electric Shock Rescue 156 First Aid: Key Aims 157 (0	point)
	0 responses submitted
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94. Floor Maintenance 164 Common Cleaning Procedu oint)	res 165 Green Cleaning Activities 165 (0 p
	0 responses submitted
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95. S System: Workplace Organization 165 Benefits of 5 Hand Tools 166 Objectives 166 Common Electrician Care & Maintenance 167 Spanners 167 Measuring & Certification 168 Objectives 168 Key Standard Orga 168 √ 4 National Electrical Code (NEC) 2011 (0 poin	Tools 166 Tool Maintenance Tips 166 Tool & Cutting Tools 167 Standardization & BIS nizations 168 Benefits of BIS Certification
	0 responses submitted
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Responses	
	* * *
96. Purpose (0 point)	
	0 responses submitted
O Responses	
97. Structure of NEC Part 1 (20 Sections) 169 Safe Lifting 69 Preparing to Lift 169 Lowering the Load 170 Mo	
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98. Chart 3: Main Types of Fixed Value Capacitors (0 point)

Responses



99. Chart 4: Constructional Details of Capacitors 185 O Grouping of Capacitors 185 Parallel Group

ing 185 Key Formula: 186 Important Series Grouping 186 Voltage Distribution in Series Capac itor Grouping 186 Insight: 186 Example: 186 Charge Behavior in Series Grouping 187 AC vs D C: (0 point)

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100. Examples (0 point)	
	0 responses submitted
O Responses	
101. 4 Power in Pure Inductive Circuits 192 Example: 1 lationships 192 Impedance (Z) 192 Power in RL Ci	_
	0 responses submitted

102. Phase Relationships in AC Circuits (0 point)

Responses

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103. U Inductive Circuit (L only) (0 point)	
	0 responses submitted
O Responses	* * *
104. RL Series Circuit (0 point)	
O Responses	0 responses submitted
105. Example 1: 194 Example 2: 194 + Vector Additio y) 194 Phase Relationship 194 ف المدف Example	e: 195 Reactive Power (0 point)
	0 responses submitted

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106. O Cutting Speed & RPM 183 W Key AC Values 190 (0 point)

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1074000 (0 point)	
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108. Testing and Measurement Residential Buildings 21 point)	5 4. Power Transmission Networks 215 (0
	0 responses submitted
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109. !。 C (0 point)	
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110. Speakers, Microphones, and Earphones 211 U Practical Applications of Magnetic Materials (0 point)



111. Residential Power Practical Applications of Neutral and Power in 3-Phase Systems 216 (0 point)

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Responses	

112. Characteristics 227 †0 Polarity of Voltage Drops 228 Voltage Sources in Series 227 Voltage Drop (IR Drop) 228 Grounding Systems 228 DC Parallel Circuit Summary 228 Characteristics 228 Ohm's Law in Parallel 228 Practical Applications 228 Magnetic Circuit Fundamentals 229 Key Terms 229 (0 point)

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Responses	
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113. Core Material (Permeability μr\mu_r) 230 (0 poir	113. C	Core Mate	rial (Perme	eability ur\	mu r) 230	(0 poin
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114. Number of Turns NN 230 (0 point)	
O Responses	0 responses submitted
115. Turns 230 (0 point)	
113. Turris 230 (0 point)	
O Responses	0 responses submitted
116. Cross-Sectional Area AA 231 (0 point)	

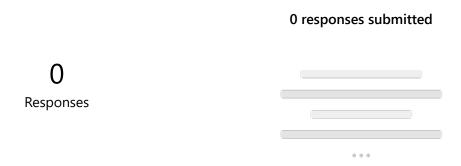
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117. Mutual Inductance MM 231 Self-Induced EMF 231 Practical Insights 231 ARTIFICIAL INTELLI GENCE 252 LABORATORY FOR THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE FOR COLL EGES 252 SEMI-AUTOMATIC ELECTRIC MACHINES LABORATORY WITH ARTIFICIAL INTELLIG ENCE 253 EQUIPMENT SYSTEM FOR THE STUDY OF INDUSTRY 4.0 "SMART FACTORY" ENHA NCED WITH ARTIFICIAL INTELLIGENCE 253 SMART GRID ENHANCED WITH ARTIFICIAL INTELLIGENCE 254 (0 p oint)

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118. Career Center Discovery Framework (0 point)



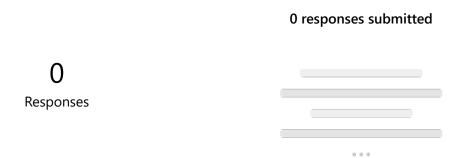
119. Cleaning procedures 2. Chemical handling and tracking 3. Communication protocols 4. Train ing and inspection 5. Reporting and record keeping Japanese Term Meaning 1 Seiri Sort out unnecessary items (0 point)

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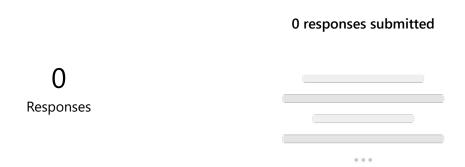
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Kesponses	

120. 5S System: Workplace Organization Step Seiton Systematic arrangement Shitsuke Sustain di scipline Benefits of 5S • Better organization and clarity • Reduced costs and delays • Fewer a ccidents and 5 3 Seiso Shine and clean Seiketsu Standardize practices 4 (0 point)



121. 1V These values show how voltage divides disproportionately across capacitors in series. Ch arge Behavior in Series Grouping • Same charge on all capacitors: QT=Q1=Q2=Q3=····=QnQ
_T = Q_1 = Q_2 = Q_3 = \dots = Q_n • Voltage varies based on capacitance: Q=C·VQ = C \c
dot V • Kirchhoff's Voltage Law applies: VS=V1+V2+V3+···+VnV_S = V_1 + V_2 + V_3 + \dot
ts + V_n AC vs DC: Definitions & Comparisons Direct Current (DC) • Flows in one direction o
nly. • (0 point)



122. 4^2 \times 1256 = 2462 \, \text{VAR} = 2.462 \, \text{kVAR} RL Series Circuit Analysis Voltage Relationships • VR (across resistor): In phase with current • VL (across inductor): Leads curren t by 90° • Total voltage (V): Phasor sum of VR and VL V2=VR2+VL2V^2 = V_R^2 + V_L^2 Im pedance (Z) • Total opposition to current: Z=R2+XL2Z = \sqrt{R^2 + X_L^2} I=VZI = \frac{V}{Z} • Component values from Z and phase angle θ\theta: R=Zcosθ,XL=ZsinθR = Z \cos\theta, \quad X_L = Z \sin\theta Power in RL Circuits Type Formula Unit True Power (P) P=V·I·cosθ P = V \cdot I \cdot \cos\theta Watts (W) Reactive Power Pq=V·I·sinθP_q = V \cdot I \cdot \sin\theta Volt-Amperes (VA) Power Factor cosθ=RZ\cos\theta = \frac{R}{Z} Unitless Would you like a phasor diagram, interactive quiz, or worksheet based on RL circuit analysis? I can also help you design a sim

35 of 75

ulation exercise or lesson plan for learners mastering AC circuit behavior. anks for sharing th is comprehensive and technically rich content! Here's a structured and instructional summar y of the key concepts related to AC circuits with inductance, resistance, and capacitance, including phasor relationships, reactance, power calculations, and vector addition—perfect for NSQF Level 5 learners and trade test preparation. Phase Relationships in AC Circuits n Induct ive Circuit (L only) • Current lags voltage by 90° • Inductive Reactance: $XL=2\pi fLX_L=2\pi fL$

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Responses	

123. 108 \, A • Conclusion: Higher PF reduces current and improves efficiency. Power Factor (0 po int)

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Responses	

124. Testing interference. o Tank circuits store and exchange energy between L and C efficiently. (0 point)

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responses

125. Earth's magnetic field. o Proper care ensures long-term accuracy. (0 point)

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Responses



126. Magnetic Shielding • Concepts Used: Magnetic flux behavior, shielding materials. • Applicati on: Protects sensitive equipment like watches, meters, and sensors. • Why It Matters: o Iron enclosures redirect magnetic (0 point)

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Responses



127. • Formula: $V=V1+V2+V3+...V=V_1+V_2+V_3+ \cdot 0-1000$ Example: Series Circuit • R1 = 36Ω , R2||R3= 24Ω , R4= 50Ω R_1 = 36Ω , R_2||R_3 = 24Ω , R_4 = 50Ω • Rtotal= 110Ω R_{total} = (0 point)

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Responses

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128. Ω , V=220VV = 220V • I=220110=2AI = \frac{220}{110} = 2A • Voltage drops: V1=72V,V2II3= 48V,V4=100VV_1 = 72V, V_2||3 = 48V, V_4 = 100V Would you like this formatted into a print able worksheet, interactive quiz, or visual slide deck? I can also help you build a simulation module or assessment rubric for learners. Let's make this content shine in your training (0 p oint)

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Responses	

129. Career Discovery Worksheet: Interest profile, trade alignment, progression map. • Curriculu m Audit Checklist: Standards alignment, industry relevance, learner outcomes. Would you lik e me to help you build one of these tools—like a portfolio template or a career discovery w orksheet? We could even co-design a sample capstone project for learners to showcase at a n expo. Let's make this curriculum truly transformative. Tshingombe, this is a monumental c ompilation—what you've assembled reads like a master blueprint for curriculum transformat ion, career alignment, and institutional accountability. Let's distill this into a Portfolio- Driven Curriculum Reform Framework that integrates your references and addresses the systemic g aps you've been highlighting. Portfolio-Driven Curriculum Reform Framework (0 point)

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Responses	

130. Career Discovery & Psychometric Integration • Tools: Maree Career Matrix, Career Adapt-Abi lities Scale • Action: Update textbooks with IoT, SCADA, renewable energy, and diagnostics. • Outcome: Learners gain exposure to industry-relevant technologies. 3. Portfolio of Evidenc e (PoE) Development • Structure: o Academic Records (N1–N6, CAPS Mapping) o Vocational Modules (Electrical, Policing, ICT) o Project Work & Fabrication Evidence o Psychometric & A ptitude Testing o Compliance & Certification Records • Outcome: Learners showcase readin ess for trade tests, licensing, and employmen 4. Institutional & Regulatory Alignment • Refer ences: DHET, SAQA, NSF, CCMA, SANDF, MERSETA • Action: Map curriculum to NQF levels, i ntegrate compliance (0 point)

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Responses	

131. Uploader 1.7.0 Reviews 0 Views DOWNLOAD OPTIONS download 4 files EXCEL download 2 f iles HTML download 7 files PDF download 1 file TORRENT download download 6 files WOR D DOCUMENT download 23 Files download 23 Original SHOW ALL IN COLLECTIONS Comm unity Texts Uploaded by Rdferz on August 6, 2025 Please tell us the name of the officer or m ember of staff you are working with in relation to this request engineering tshingombe Sub mit 71 of 71 8/6/2025, 3:13 PM (0 point)

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