## Review: Career Mentor. scie bono tshingombe client tank

Respondent

1 Anonymous

13:59

Time to complete

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Points

#### 1. of 9,790

Career scie bono discovery center. 1

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Career

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tshingombe fiston <tshingombefiston@gmail.com> Sat, Mar 22, 4:57 PM (2 days ago) to me, TSHINGOMBEKB

## research scie Bono . -1.1. Client intake information walk in center . -1.2 Name of facilitator : tshingombe tshitadi. -

#### to me, TSHINGOMBEKB

- research scie Bono.
- -1.1. Client intake information walk in center.
- -1.2 Name of facilitator: tshingombe tshitadi.
- 1.3 client name, surname: tshingombe tshitadi fiston.
- client details:07298 email:

#### tshingombefiston@gmail.com.

- 1.4 .field of study: engineering electrical ,saqa assessment.
- -1.5.age:42. Gender: male ,race : black .
- -1. 6 .how did:
- -1.7. Subject / career choice info and guidance:
- -1.8. Study skills:
- -1.9.time management skills:
- -1.10.job search skills:

Written interview.

- -1. 11. work readiness and employment enhanced:
- -1.12. Self directed career.
- -1.13.learnership employment skills training:
- -1.14. Tertiary studies info:
- 1.15.career info resources:
- -1.16.any other issues..
- -1.17. facilitator notes: client issue info: provide..provide.
- -1.18. what was the reason referral client black.
- 1.19. was information, and out only what need mediation
- -1.20.didn you information you talk ..
- 1.21.how can improve our service to meet need ,, tshingombe fiston <tshingombefiston@gmail.com> Sat, Mar 22, 6:18 PM (2 days ago)

to me, TSHINGOMBEKB

- 2.1.research: department education career and science technology

Education science research

- 2.2.background.

Overview science education study natural. Science engineering field natural discovery science invention science ,science low rules invention learner learning natural and

-2.2.1 topics :education science natural topics module topics low education technology low education education fundamental education .low phenomenal

Education in education science field

-2.2.2.topics: education pedagogy science: fundamental phenology study low outcome background topic exhibit transited phase teacher,learner teacher lesson plan exhibited,

Engineering science ,case study exhibition,low invention Phylosophic phylo science logic study natural proof low key design

- -2.2.3. topic: education psychology science:
   Guideline criteria psychologies psychosocial science
   ,psycho social introduction
- -2.2.4.topic ,education didactics motivation : evaluation assessment curriculum framework science theory ..
- -2.2.5,topic education language literacy bibliotheca theory libraries design
- 2.2.5 topic education human science economic politics. Literacy

Science engineering relate natural

-2.2.4.career center: research science education career job. Campaign

Library career center, lab library bibliotech research research technical documentation and expert assessment join career internal and external job career practice school career center

Trade course research career module ,career lesson plan career ,career mentoring.

- 2.2.5.item documentation trade booking prospectuse annual report key delivery
- -2.2.6. field institution government organization science skill accredited credit time .corp award certificate issue licence mentoring
- applicability:
- -seta: overview credit accredited registration
- ,sasseta ,
- -merseta,
- -hseta
- -insets
- -Qcto.
- -,saqa,

ucpd,

nrf, NSF,

Stick

- ,city government
- , -dhet dbe ,nated ncv
- , saqa ,labour

,SITA.

- engineering council trade council science council
- -, education council
- ,sarb ,SARS cipic ,
- -,sandf saps psira,
- discovery
- science department, education department, skill
- design module

Subject: career job outcome: .moderator, facilitator, assessor, personality,

2.3.1-information management:

Back ground:

Design profile career

Design recruiting job career information filing database

career investigation

- administration portfolio job theory job documentation job .persona
- information management system:
- information management system in: education
- information system:
- orientation system:
- science computer :math ,physic
- information technology:literacy intelligence
- information management system, mil , security , policy
- information management system
- 3. 3 client name , surname: tshingombe tshitadi fiston . client details :07298 email : tshingombefiston@gmail.com. -

No answer provided.

Score 🗘 / 0 pts

4. 4 .field of study: engineering electrical ,saqa assessment. -1.5.age:42. Gender: male ,race: black . -1. 6 .how did: -1.7. Subject / career choice info and guidance: -1.8. Study skills: -1.9.time management skills: -1.10.job search skills: Written interview . -1. 11. work readiness and employment enhanced: -1.12. Self directed career . -1.13.learnership employment skills training: -1.14. Tertiary studies info: -

#### Record sheet

Certainly! Here's how the intake form structure could be improved for clarity, efficiency, and comprehensiveness: 10.Suggestions for Improvement

- 1. Header Section:
- o Include a form title such as "Client Intake Form Sci-Bono Walk-In Center."
- o Add fields for the date of intake and intake session ID/ reference number for record-keeping.
- 2. Facilitator Information:
- o Section title: "Facilitator Details."
- o Include fields for full name, contact details, and position/title.
- o Consider adding a checkbox for identifying if this is an initial intake or a follow-up session.
- 3. Client Information:
- o Section title: "Client Details."
- o Organize fields for basic demographics (e.g., Full Name, ID Number, Age, Gender, Race, Contact Information). o Include fields for the client's current education level, employment status, and SAQA assessment status for better profiling.
- 4. Purpose of Visit:
- o Ask clear, structured questions like:
- "What are you seeking guidance for today?" (e.g., Career Planning, Study Skills, Job Search, Learnerships, etc.).
- Include a dropdown or multiple-choice options to streamline responses.
- 5. Career Guidance Information:
- o Reorganize into subcategories:
- 🖺 Career Choice Guidance: Interests, strengths, and values.
- Study Skills Support: Current challenges, specific study techniques.
- Time Management Skills: Examples of issues they face, tools they already use.
- Job Search Skills: CV writing, interview techniques, etc.
- 6. Work Readiness and Employment:
- o Reframe to focus on self-assessment of work readiness and skills enhancement.
- o Add fields for work history and relevant skills/training programs attended.

- 7. Feedback and Service Improvements:
- o Add a well-defined section titled "Feedback."
- o Reframe vague questions like "How can we improve our services?" into targeted feedback prompts, e.g.,
- "What information or resources did you find most helpful today?"
- "What additional support would you like us to provide?"
- 8. Facilitator Notes Section:
- o Structured prompts for facilitators to document key issues, action steps, and recommendations.
- o Add a checkbox for follow-ups and a space to record next steps or referrals made.
- 9. General Layout Improvements:
- o Consistent formatting: Use bold section headers and concise instructions for better readability.
- o Avoid overlapping or vague questions (e.g., 1.16-1.20 appear unclear). Reframe or consolidate to avoid redundancy.
- 10. Digital Option:
- Consider a digital version with dropdown menus, radio buttons, and auto-fill options to speed up data entry. This could integrate with a CRM system for tracking client progress.

Here's an example reorganization:

Header Section:
• Date:
Session ID:
Facilitator Details:
• Name:
Position:
· Contact:
Client Details:
• Name:
SAQA Status:
Field of Study:
· Contact Information:

Purpose of Visit (Choose One):

Tulpose of visit (Choos

- Career Guidance
- Study Skills Support
- Job Search
- ...and so forth.

Designing effective intake forms requires balancing clarity, comprehensiveness, and user-friendliness. Here are some best practices to consider:

- 1. Clarity and Simplicity
- Use clear and concise language; avoid jargon or overly technical terms.
- Include short instructions where necessary to guide users on how to fill out the form.
- Ensure the layout is logical, grouping related fields together in distinct sections.
- 2. Relevance
- Only include fields that are directly relevant to the purpose of the intake form to avoid overwhelming users.

- Use dropdown menus, checkboxes, or radio buttons for common answers to make it quicker to complete.
- 3. Organization
- Structure the form into sections with headings (e.g., "Personal Information," "Reason for Visit," "Feedback").
- Place essential information (e.g., name, contact details) at the start for easy identification.
- 4. Accessibility
- Ensure the form is easy to read with a clean design (use a readable font, adequate spacing, and clea

- 5. 15.career info resources: -1.16.any other issues.. \_\_\_\_\_ -1.17. facilitator notes: client issue info: provide..provide: -1.18. what was the reason referral client black: -
  - 13.1Module Description and Topics for an Experimental Career Curriculum
  - 2.1 Research Focus
  - Department: Education, Career, and Science Technology.
  - Emphasis: Exploring the intersection of educational research, science, and technology to prepare learners for innovation and societal contributions.
  - 2.2 Background and Overview
  - Objective: Highlighting the role of natural and engineering sciences in education and discovery.
     o Key Areas:
  - The importance of learning through natural discoveries and inventions.
  - Developing rules and frameworks for science-based learning.
  - Promoting innovative thinking in learners.
  - 2.2.1 Topics: Education and Natural Science
  - Foundation in Natural Sciences Education: o Topics include low-tech applications, science fundamentals, and integration of technology into education.
  - Exploration of phenomenal-based education, focusing on real-world applications of science concepts.
  - 2.2.2 Topics: Pedagogy and Science
  - Principles of education pedagogy for teaching science:
     Subtopics:
  - Fundamentals of teaching methodologies.
  - Phenology and learner outcomes.
  - 🖺 Designing and showcasing science-based lesson plans.
  - Use of engineering case studies to link theory with practical exhibition.
  - Integration of philosophical perspectives in education: o Logical reasoning, natural sciences, and innovative designs.
  - 2.2.3 Topics: Psychology in Education
  - Introduction to psychosocial and psychology guidelines:
  - o Understanding learner motivation and behavior.
  - o Criteria for fostering a supportive learning environment.
  - 2.2.4 Topics: Didactics and Motivation
  - Components of education motivation:
  - o Frameworks for curriculum evaluation and assessment.
  - o Theoretical underpinnings of science education.
  - 2.2.5 Topics: Literacy and Human Sciences
  - Incorporating education language and literacy:
  - o Designing bibliotheca (library) systems for accessible learning.
  - o Examining theories related to literacy development.

- Exploring human sciences:
- o Intersections with economics, politics, and their impact on education.

Suggestions for Improvement

- Clarify Terminology: Some terms like "low invention" or "phenomenal education" might need more precise definitions or examples for clarity.
- 2. Organize by Learning Outcomes: Align each module with intended outcomes (e.g., critical thinking, innovation, cultural understanding).
- 3. Add Context: Briefly introduce why each topic is relevant to career or educational development.
- 4. Apply Interdisciplinary Themes: Highlight connections between science, technology, engineering, and societal needs.

If you'd like, I could help expand specific sections or refine the wording further. How would you like to proceed? 13.2Suggestions for Improvements

General Framework

- 1. Formatting Consistency:
- o Use bold section titles or numbering for easy navigation. Example: 2.2.1 Topics: Education and Natural Science.
- o Indent subtopics further to make the hierarchy clear.
- 2. Learning Objectives:
- o Specify the learning outcomes for each module/topic. For example:
- Goal: Equip learners with foundational knowledge of natural sciences to apply in engineering contexts.
- 3. Practical Applications:
- o Integrate examples of how learners can apply theoretical concepts. For instance:
- Case Studies: Analysis of famous scientific discoveries and their educational impact.
- Hands-On Projects: Design basic engineering prototypes using natural science principles. Specific Section Refinements
- 1. 2.2 Background and Overview:
- o Provide definitions for key concepts like "natural discoveries" and "rules for science-based learning."
- o Emphasize how promoting innovative thinking aligns with modern technological advancements.
- 2. 2.2.1 Education and Natural Science:
- o Clearly describe "low-tech applications" with examples like using simple tools or materials to demonstrate scientific principles.
- o Include a module on sustainability, linking natural sciences to environmental education.
- 3. 2.2.2 Pedagogy and Science:
- o Expand on "phenolo

- 6. 19. was information, and out only what need mediation -1.20.didn you information you talk ... -
  - 14.1. You've laid out a comprehensive framework centered around career, research, and educational advancement. To refine this and ensure that it's coherent and accessible, here's how it could be structured and enhanced:

    Refined Framework: Experimental Career Curriculum

    2.2.4 Career Center
  - Objective: Provide robust support for career development through research, education, and job placement strategies.
  - Key Areas:
  - o Library Career Center:
  - Establish a hub for career resources, including research libraries (physical and digital).
  - Offer bibliotech research resources for technical documentation and expert assessments.
  - Host workshops and campaigns for internal and external job opportunities.
  - o Career Mentoring and Training:
  - 🖺 Develop trade courses tailored to industry needs.
  - Create career lesson plans and modules targeting school and university learners.
  - Provide one-on-one career mentoring for professional growth.
  - 2.2.5 Documentation and Key Resources
  - Focus on Deliverables:
  - o Maintain comprehensive documentation for transparency and reporting:
  - Trade Booking Systems: Efficiently log skills and certifications for learners and workers.
  - Prospectuses and Annual Reports: Highlight key achievements, delivery milestones, and upcoming opportunities.
  - o Emphasize technical documentation: Align with industry standards to ensure credibility and usability.
  - 2.2.6 Institutional Applicability and Accreditation
  - Field Collaboration:
  - o Engage with government organizations, industry councils, and professional bodies to align with workforce demands.
  - o Partner with science and trade councils for skill enhancement:
  - Rey Institutions:
  - SETA Overview:
  - SASSETA: Focus on safety and security sectors.
  - MERSETA: Address manufacturing, engineering, and related services.
  - HSETA & INSETA: Focus on health sciences and insurance industries.
  - Other Accrediting Bodies:
  - 🖺 QCTO, SAQA, DHET, DBE, NATED, NCV.

- Incorporate corporates and award certificates for milestone achievements, mentorships, and skill verification.
- Applicability Across Sectors:
- o Collaborate with professional councils for career pathways:
- Engineering, Trade, and Science Councils: Align skills training with accreditation standards.
- Financial and Government Councils:
- B SARB, SARS, and CIPRO for economic and financial compliance.
- 🖺 Public Safety and Defense:
- SANDF, SAPS, PSIRA for security-related careers.

**Topics for Modules and Practice** 

- Career Development:
- o Craft modules focused on:
- Career job mapping and industry prospectuses.
- Effective use of career libraries and resource tools.
- Specialized Training:
- o Design practice-focused lessons:
- Technical skills for trade courses.
- 🖺 Research methods for career-related projects.
- o Develop programs targeting underrepresented sectors and bridging skill gaps.

Suggestions for Additional Enhancements

- 1. Integrated Digital Systems:
- o Use digital platforms for trade booking, skill verification, and collaboration with accrediting bodies.
- o Offer e-libraries and virtual mentoring programs to expand accessibility.
- 2. Feedback Loops:
- o Regularly gather input from learners, mentors, and industry representatives to refine modules and align with trends.
- 3. Global Applicability:
- o Highlight pathways for learners to access international opportunities by integrating global certifications like ISO standards or international engineering councils.
- his outline provides a strong foundation for structuring programs and initiatives that align education, certification, and career pathways across various sectors. Let me refine and expand upon it to improve clarity and create a cohesive framework:
- 13.2.Background Overview for Sci-Bono Course Topics Key Institutions and Accreditation Bodies
- 1. SETA Overview:
- o SASSETA: Focuses on safety and security industries, supporting professions like law enforcement and disaster management.
- o MERSETA: Targets manufacturing, engineering, and related trades for upskilling in technical and vocational field

 21.how can improve our service to meet need ,, tshingombe fiston Sat, Mar 22, 6:18 PM (2 days <tshingombefiston@gmail.com> ago) to me, TSHINGOMBEKB -

#### Information Management Systems:

- 1. In Education:
- o Systems to track student progress and career alignment.
- 2. Technical Integration:
- o Leveraging computer systems for data management (e.g., spreadsheets, filing systems).
- o Combining manual and automated systems in class labs and offices.

#### Information Technology Skills:

- Modules on:
- o Technical Support: PC troubleshooting and hardware.
- o ICT and Network Support: Establishing and managing computer networks.
- o Generative Data Science: Data-driven solutions and their impact.
- 2.3 Training Science Skills:

#### Subtopics:

- 1. Engineering Disciplines:
- o Chemical, physical, and biological engineering.
- o Focus areas like geo-engineering and agricultural technology.
- 2. Applied Technical Skills:
- o Drawing engineering blueprints, understanding control logic systems, and transmission designs.
- o Submodules in electrical trade theory, mechanotechnics, and construction basics (e.g., bricklaying and fitting).
- 2.4 Study Skills:

#### Facilitation and Moderation:

- Modules to prepare learners for workplace entry and career progression.
- Emphasis on study techniques tailored to job-specific requirements.

#### Modules for Job Skills:

- 1. Curriculum Design:
- o Task breakdown, job operation skills, and requirements.
- 2. Research and Trade:
- o Job-specific prospectuses and market insights.
- 3. Time Management Skills:

#### Background:

- Courses focusing on:
- o Team Training: Cultivating collaboration within groups.
- o Goal Setting: Linking personal goals to career objectives.
- o Evaluation and Assessment: Using tools like annual reports and record sheets to track progress.

#### **Practical Tools:**

- 1. Scheduling and Rostering:
- o Systems to organize tasks and timelines effectively.

- 2. Workplace Flowcharts:
- o Visual guides for task sequencing and job execution.
- 4. Job Search Skills:

#### Modules Include:

- 1. Interview Preparation:
- o Techniques for verbal and written interviews.
- 2. Researching Jobs:
- o Database management for CVs, cover letters, and motivation documents.
- 3. Methodology Skills:
- o Structuring professional presentations: Introduction, Development, and Conclusion.
- 5. Work Readiness:

#### **Topics:**

- Technical Training:
- o Lectures on managing workplace designs and addressing job-specific challenges.
- Employment Preparation:
- o Understanding contracts, salaries, and workplace etiquette.
- 6. Self-Directed Career Development:
- Outcome:
- o Encourages learners to develop curricula, teach themselves, and build self-execution tasks.
- 7. Learnership and Employment Training:

#### Purpose:

- Building foundational workplace skills through practical experience.
- Assessment frameworks for evaluating career-building progress.

#### Key Elements:

- Career Frameworks: Establish operational guidelines for teams and assess requirements for task execution.
- 8. Tertiary Studies Information:

#### Focus:

- Guidance on career design, including purpose, requirements, and comparative analysis of career fields.
- Advantages and Disadvantages: Exploring potential outcomes in various industries.
- 9. Career Information Resources:

### Technical Documentation:

- 1. Research Tools:
- o Autobiographical and bibliographic materials.
- o Magazines, journals, and textbooks.
- 2. Diverse Formats:
- o Digital (web pages, videos) and physical (handbooks, manuals).

#### **Specialized Career Paths:**

- 1. Military Careers:
- o Resources on military duties, codes, and recruiting.
- 2. Policing and Security:
- o Exploring roles in security sciences and public safety. This comprehensive description outlines a well-structured

approach for career development and technical education

within the Sci-Bono context. Here's how we could further expand the framework to integrate calculation, configuration material, integrals, derivation, and electrical data systems into the existing topics:

Enhancements for Technical and Mathematical Integration

Enhancements for Technical and Mathematical Integration 2.3 Information Management:

- Add Technical Calculations:
- o For career investigations, include modules on data analysis using mathematical models (e.g., deriving trends from career outcomes).
- o Integrate

# 8. 1.research: department education career and science technology

- o Estimating project budgets with integral sums for multiphase designs.
- o Tracking progress using mathematical logs and activity records.
- 6. Self-Directed Career Development
- Algorithmic Design:
- Help learners build custom models for career forecasting:
   Use derivatives and integrals to assess potential growth in technical industries.
- 7. Learnership and Employment Training Mentorship Frameworks:
- Assign practical mentorship projects requiring:
- o Material configuration analysis.
- o Electrical system modeling using calculated integrals and derived functions.
- 8. Tertiary Studies Information
- **Decision-Making Tools:**
- Train learners to use cost-benefit analysis through integral-based comparison models for tertiary education options.
- 9. Career Information Resources
- Mathematical Literacy Materials:
- Develop advanced bibliographic resources that incorporate:
- o Calculations for practical applications.
- o Case studies on integral usage in electrical and technical fields
- 14.1 Summary of Background Issues
- 1. Key Challenges Identified:
- o Assessment Irregularities: Missing transcripts, unresolved certification processes, and irregularities with printers and materials.
- o Framework Qualifications: Certificates not aligning with qualifications or occupational standards (e.g., SAQA, QCTO).
- o Operational Delays: Backlogs in SITA projects, Kheta project inefficiencies, and unresolved learner grievances.
- o Time Management Concerns: Lack of effective systems for task tracking, report generation, and conciliation for materials and equipment.
- 2. Facilitator and Career Advisor Notes:
- o Need for better mediation in addressing client concerns regarding assessments, qualifications, and outcomes.
- o Requests for improved access to career resources (e.g., textbooks, online tools, library workshops).
- o Highlighted gaps in readiness for lab-workshop integration and theoretical-practical application. Recommendations for Revision and Improvement
- 1. Career Assessment and Certification Processes
- Standardize Frameworks:

- o Align certification processes with SAQA, QCTO, and other regulatory bodies.
- o Implement clear pathways for qualifications to meet occupational standards for consistent outcomes.
- Automate Results Management:
- o Introduce digital systems for assessment records, task tracking, and transcript generation.
- o Resolve printer and material irregularities by implementing maintenance schedules and backup solutions.
- Learner Support Mechanisms:
- o Offer regular status updates on certificate and diploma progress.
- o Conduct workshops to help learners understand qualification requirements and pathways.
- 2. Addressing SITA Backlogs and Kheta Issues
- Project Resolution Teams:
- o Create task forces dedicated to resolving backlog and inefficiency complaints (e.g., SITA, Kheta).
- o Regular audits and feedback loops to identify recurring issues.
- Epic Run Project Optimization:
- o Set milestones for deliverables with strict timelines to ensure timely outcomes for learners and stakeholders.
- 3. Enhancing Career Center Services
- Curriculum Development:
- o Develop updated, structured curriculum offerings in collaboration with DHET and SETA to meet market demands.
- o Include specialized modules for soft skills (e.g., career mentoring, time management) and technical skills (e.g., computer networking).
- Lab and Workshop Readiness:
- o Upgrade lab and library facilities with modern resources (e.g., simulation tools, updated textbooks).
- o Ensure theory-practice alignment through hands-on learning opportunities in real-world scenarios.
- 4. Mediation and Client Feedback Systems
- Career Mediation Framework:
- o Establish systems for addressing complaints effectively, using psychometric assessments and tailored solutions.
- o Offer additional assessments and corrective actions for learners facing qualification gaps.
- Client Feedback Mechanism:
- o Implement structured surveys post-service to gather actionable insights.
- o Train facilitators and moderators in mediation skills to better

# Education science research

Links to National Occupational Standards (NOS)
This course aligns broadly with UK National Occupational
Standards (NOS) to ensure relevance to engineering
employment roles, though with reduced complexity to suit
entry-level learners.

- Tolerance Levels for Practical Tasks: ±3mm for activities, as specified in Assessment Support Packs (ASPs). Teaching and Learning Approaches
- **Emphasis on Experiential Learning:**
- Real or simulated workplace settings.
- Role-play activities tailored to vocational tasks.
- · Practical assignments and case studies.
- Reflective practices at each stage of learning for improvement.

#### Core Objectives:

- Develop vocational and workplace-specific skills.
- Instill positive attitudes to learning.
- Strengthen employability, adaptability, and self-reflection capabilities.

#### **Employability Skills:**

- Time management, customer care, and workplace ethics.
- Confidence in self-evaluation and lifelong learning.
- Flexible problem-solving and adaptability to change.

#### Key Rationale

The course supports the Curriculum for Excellence by enabling learners to become:

- · Successful learners.
- Confident individuals.
- Responsible citizens.
- Effective contributors.

Key Features and Services Provided by SQA

- 1. Candidate Profile Management:
- Accessible via the navigational panel to:
- o Update personal and contact details.
- o Set up and manage job alerts.
- o Track the status of applications and modify them as necessary.
- o Log out for enhanced privacy after making updates.
- 2. Exam and Learning Support:
- Timetables:
- o Updated exam schedules (e.g., exams from April 25 to June 2, 2025, with results on August 5).
- o Tools like the Personal Timetable Builder for individual customization.
- Study Applications:
- o MyExams App: For timetable customization, adding notes, and syncing with calendars.
- o MyStudyPlan App: Helps create a structured revision plan based on personal needs.
- Resources:
- o Modified Past Papers: Adjusted formats due to past

- disruptions, including Covid-19.
- o Specimen Question Papers: Examples that show structure, question types, and marking guidance.
- 3. Job Applications and Career Management:
- Vacancy Portal:
- o Provides direct access to current job opportunities and application tracking.
- o Tools for withdrawing, amending, or managing applications.
- Contact Points for Queries:
- o Candidate Support: General inquiries handled via phone or email.

Core Educational Guidance

- 1. Skills for Work Courses:
- Focused on vocational learning with experiential teaching methods:
- o Learning Environments:
- 🖺 Real/simulated workplace activities.
- Assignments and case studies for practical understanding.
- o Reflective Learning:
- Preparatory planning, regular reviewing, and final evaluations to enhance learning.
- Core Skills Framework:
- o Key transferable skills:
- Critical Thinking.
- Communication.
- Problem Solving
- Numeracy and ICT.
- 2. Equitable and Inclusive Assessments:
- Designed to remove unnecessary barriers:
- o Alternative arrangements for modified exam papers or digital tools.
- o Support for learners needing Braille or other accessibility accommodations.

**Recommendations for Enhancements** 

- 1. Enhanced Digital Resources:
- o Integrate more AI-driven tools like career advisors or dynamic progress tracking systems.
- o Expand functionalities in the MyExams and MyStudyPlan apps for deeper insights into learning outcomes.
- 2. Streamlined Certification Processes:
- o Automate certificate issuance and provide real-time status updates for learners seeking replacements or awaiting results.
- 3. Improved Career Mentorship:
- o Build a mentoring network accessible through SQA's portal to bridge the gap between education and professional opportunities.
- 4. Expanded Communication Channels:
- o Create live chat options for candidate queries to resolve concerns more rapidly.
- **Pre-Exam Preparations**
- 1. Personal Details:

- o Ensure your school has accurate and updated personal details, including name and address.
- o Changes over the summer should be reported before holi

- 10. 2.background. Overview science education study natural. Science engineering field natural discovery science invention science science low rules invention learner learning, natural and -2.2.1 topics :education science natural topics module topics low education technology low education education fundamental education .low phenomenal Education in education science field -2.2.2.topics: education pedagogy science: fundamental phenology study low outcome background topic exhibit transited phase teacher, learner teacher lesson plan exhibited, Engineering science, case study exhibition, low invention Phylosophic phylo science logic study natural proof low key design -2.2.3. topic: education psychology science: Guideline criteria psychologies psychosocial science, psycho social introduction -2.2.4.topic ,education didactics motivation : evaluation assessment curriculum framework science theory .. -2.2.5, topic education language literacy bibliotheca theory libraries design
  - o Tools for designing inclusive assessments and accessibility compliance (e.g., Web Content Accessibility Guidelines WCAG).
  - Corporate Parenting and Care Experience:
     o Empowers staff to understand their responsibilities and
  - support care-experienced learners.

    4. Specialized Staff Development
  - Organisational Roles:
  - o Procurement Contract and Supplier Management (CSM).
  - o Data Governance and Business Continuity Training.
  - Line Management Training:
  - o Fundamentals for aspiring or current line managers.
  - Virtual Meeting Facilitation:
  - o Best practices for hosting and managing effective online collaborations.
  - 5. Accessible Learning Tools
  - Mobile App:
  - o Enables on-the-go access to SQA Academy courses and learning resources.
  - Reports and Progress Tracking:
  - o Browser session summaries and grades overviews for tracking progress.
  - 6. Assessment and Exam Guidance
  - Modified and specimen papers for National Courses (e.g.,

National 5, Higher).

- Access to digital and Braille question papers for inclusivity.
- Preparation tools like MyExams and MyStudyPlan apps.
- 7. SQA's Commitment to Excellence
- Over 100 years of experience in qualification design and delivery.
- Transparent approval processes for becoming an SQA Centre, ensuring quality in the management and delivery of qualifications.

The information provided offers a detailed range of resources, training opportunities, and organizational support available through SQA Academy. Here's an organized breakdown for better understanding and practical application:

**Core Training Programs** 

Workplace Skills Development

- 1. Remote Working:
- o A comprehensive guide designed for SQA staff transitioning to or managing remote work environments.
- 2. Change Management:
- o For staff involved in organizational development, this course provides tools to manage and implement change effectively.
- 3. Clear and Confident Writing:
- o Modules to develop audience-focused writing skills, improving communication within and outside the organization.
- 4. Managing Stressful Situations at Work:
- o Supportive training aimed at handling workplace challenges with resilience and professionalism.
- 5. Mental Health Matters:
- o Aims to build awareness of mental health, offering guidance on seeking and providing support.
- 6. Resilience Training:
- o Equips staff with strategies to foster resilience and adaptability in the workplace.
- 7. Virtual Meeting Facilitation:
- o Practical tips and best practices for hosting effective virtual meetings with colleagues and stakeholders. Equalities and Inclusivity
- 1. Equality, Diversity, and Inclusion Training:
- o Covers the Equality Act 2010 and its implications for SQA staff and responsibilities.
- 2. Designing Inclusive Assessments:
- o Provides tools for creating fair and accessible assessments for diverse learners.
- 3. Digital Accessibility Training:
- o Focuses on improving accessibility in digital content, using tools and guidelines like WCAG and Universal Design for Learning (UDL).
- 4. Care Experience and Corporate Parenting:
- o An introductory course for understanding and supporting learners with care experience.

**Specialized Staff Roles** 

Leadership and Management:

- Line Management Fundamentals:
- o Aimed at developing essential skills for current or aspiring line managers.

Organizational Roles:

- Candidate Advice Line (CAL) Training:
- o Prepares volunteers to support SQA candidates effectively.
- Workplace Investigations:
- o Mandatory training for conducting workplace investigations with accuracy and integrity.
- Procurement Contract and Supplier Management (CSM):
- o Designed for procurement teams, but accessible to all staff to build understanding.

**Technical and Operational Support** 

- 1. E-Marking Helpdesk Training:
- o Provides technical and procedural support for e-marking operations.
- 2. Business Continuity:
- o Offers insights on maintaining operations during disruptions.
- 3. Data Governance Training:
- o Ensures proper handling of organizational and learner data.

Podcasts and Learning on the Go

• Academy Podcasts:

# 11. 2.5 topic education human science economic politics. Literacy

#### **HNC Aims:**

• Introduce Core Formulations: Familiarize learners with basic integrals for energy and derivatives for efficiency monitoring.

**HND Aims:** 

- Complex Analysis: Derive equations for electrical fields and implement integrals to study renewable energy systems.
- 5. Structuring Mathematical Concepts HNC Topics:
- Size configuration techniques to determine optimal wiring dimensions using resistance formulas:  $R = \rho \$  Where RR is resistance,  $\rho \$  is resistivity, II is length, and AA is cross-sectional area.

**HND Topics:** 

- Analyze dynamic changes in current using derivatives: \$\$
  \frac{di}{dt}\$\$ Apply integrals to calculate total charge: \$\$Q
  = \int I(t) \, dt\$\$
- 6. Practical Delivery and Assessment Real-World Applications:
- Assign tasks where students calculate the efficiency of energy systems or optimize material usage for installation projects.

Technological Integration:

 Leverage software like MATLAB or AutoCAD to model and solve integral-based and derivational engineering problems.

**Assessment Examples:** 

- Derive equations for voltage regulation in circuits, ensuring optimal power distribution.
- Perform integral calculations to determine the energy stored in capacitors.
- 7. Support for Centres
- Provide step-by-step resources for teaching integrals and derivatives in practical contexts.
- Include simulations and workshops to bridge theoretical learning and hands-on practice.
- 8. Articulation Pathways
- Showcase how foundational mathematical competencies align with higher qualifications, such as degrees in electrical or renewable energy engineering.
- 's craft a structured response to integrate formulas, calculations, and size reasoning within the context of engineering science and electrical assessments, tailored to the SQA framework:

Background: Engineering Science in Electrical SQA Assessments

The integration of engineering science principles into SQA electrical assessments aims to provide students with practical and theoretical understanding. These assessments

encourage the application of mathematical models, formulas, and reasoning to solve real-world challenges. Key Topics and Formulas

- 1. Size Calculation: Wire and Component Dimensions
- Ohm's Law: \$\$ V = IR \$\$ Where VV is voltage, II is current, and RR is resistance. This formula aids in determining wire capacity based on load requirements.
- Resistance Formula: \$\$ R = \rho \frac{l}{A} \$\$ o ρ\rho: Material resistivity.
- o II: Length of the wire.
- o AA: Cross-sectional area.
- Practical Application: Calculate the optimal wire size for minimizing energy losses in a power distribution system.
- 2. Energy and Power Calculations
- Power Calculation: \$\$ P = VI \$\$ Where PP is power, VV is voltage, and II is current.
- Energy Consumption: \$\$ E = P \cdot t \$\$
- o EE: Total energy consumed over time tt.
- o Used for analyzing power usage in electrical systems over specific intervals.
- Integral Energy Calculation: \$\$ E = \int P(t) \, dt \$\$ o For varying power systems, this integral calculates cumulative energy.
- 3. Component Sizing: Capacitors and Transformers
- Capacitor Energy Storage: \$\$ E = \frac{1}{2}CV^2 \$\$
- o CC: Capacitance.
- o VV: Voltage across the capacitor.
- Transformer Sizing Equation: \$\$ P\_{\text{out}} =
- P\_{\text{in}} \times \eta \$\$
- o η\eta: Transformer efficiency.
- o Balances input and output power.

Reasoning Framework in Assessments

- 1. Problem Identification:
- o Clearly define the engineering scenario (e.g., sizing a cable, analyzing power loss).
- 2. Formulation:
- o Apply relevant equations to establish relationships between variables.
- 3. Calculation:
- o Substitute known values and compute results.
- 4. Evaluation:
- o Interpret results, compare with industry standards, and identify optimizations.

Integration in SQA Assessments

- Core Units: Introduce size calculations, wiring configurations, and energy system analysis using these formulas.
- Graded Units: Assign complex problems like sizing multiphase transformers or analyzing efficiency in renewable systems.
- Optional

### Science engineering relate natural

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12. -2.2.4.career center: research science education career job. Campaign Library career center, lab library bibliotech research research technical documentation and expert assessment join career internal and external job career practice school career center Trade course research career module, career lesson plan career, career mentoring. -

#### Outcome 4

Write, test and document an I/O program, incorporating subroutines

Knowledge and/or Skills

- " Procedures/functions
- "Bit-wise logical operations: AND, OR and EOR
- "Identifying port signals and their functions
- " Test plan and actual results
- " Documentation

**Evidence Requirements** 

Evidence for the Knowledge and/or Skills in this Outcome will be provided on a sample basis in the form of a portfolio. The candidate's response will be judged to be satisfactory where evidence provided is sufficient to show that the candidate is able to: SQA Advanced Unit Specification

Unit HP41 47: High Level Engineering Software 5 Write, test and document a basic input/output ports program, which includes:

- " procedures/functions
- " bit-wise logical operation.
- " a conditional statement
- " an iterative loop

the documentation to include:

- " statement of the problem
- " flowchart/algorithm
- " program coding with comments
- " testing and actual results
- " conclusion

**SQA Advanced Unit Specification** 

Unit HP41 47: High Level Engineering Software 6

Administrative information

Unit code: HP41 47

Unit title: High Level Engineering Software

Superclass category: CB

Original date of publication: August 2017

Version: 01

History of changes:

Version Description of change Date

Source: SQA

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SQA acknowledges the valuable contribution that Scotland's colleges have made to the development of SQA Advanced Qualifications. FURTHER INFORMATION: Call SQA's Customer Contact

Centre on 44 (0) 141 500

5030 or 0345 279 1000. Alternatively, complete our Centre Feedback Form.

**SQA Advanced Unit Specification** 

Unit HP41 47: High Level Engineering Software 7

Unit specification: support notes

Unit title: High Level Engineering Software

This part of the Unit specification is offered as guidance.

The support notes are not mandatory.

While the exact time allocated to this Unit is at the discretion of the centre, the notional design length is 40 hours.

Guidance on the content and context for this Unit This Unit has been written in order to allow candidates to develop the knowledge, understanding and skills in the area of Software Engineering by writing and testing I/O programs. The following processes illustrate Software Engineering:

- " user requirements
- " problem specification
- " system design (partitioning into manageable tasks)
- " detailed design (design of individual modules)
- implementation (coding into chosen programming language)
- program verification (software testing)
- " program maintenance (extending the program for the future)

With validation and documentation taking place at all the stages.

This Unit was designed to permit the candidates to apply the software engineering techniques to formulate the solutions to engineering tasks involving input and output ports. Software may be developed for a PC or single board computer or a microcontroller in conjunction with an applications board. Candidates may be provided with subprograms to configure and read/write input/output ports.

This Unit was developed as one of four SQA Advanced Certificate/Diploma in Engineering

Programming options and is at SCQF level 7. This Unit should be completed before tackling the level 8 Unit, High Level Language: External I/O Transfer.

The Unit has identified the topics that are expected to be covered by lecturers. The Unit also gives

recommendations as to how much time should be spent on each Outcome. This has been done to help

lecturers to decide what depth of treatment should be q

13. 2.5.item documentation trade booking prospectuse annual report key delivery -2.2.6. field institution government organization science skill accredited credit time .corp award certificate issue licence mentoring - applicability: -seta: overview credit accredited registration ,sasseta , - -merseta , -hseta - insets , -Qcto . -,saqa, . ucpd , nrf, NSF , Stick

[Type the company name]

Project

Workbook is a compilation of adapted formal assessment brief career-project exhibition

Tshingombe tshitadi tshingombe

[Pick the date]

Absract : scie bono career center librairie career mentoring discovery assessment engineering studie fiedl and technologie

1. Purpose: explanation career center expo science journey of self discovery.

Workbook is a compilation of adapted formal assessment brief career

- -project exhibition
- -Name: tshingombe Tshitadi
- -Date: 17/04/2024

Section A: subjects and studies

Section B: skills and ability strengths

Section C:my career interests

Section D: preferred field of study

Section my personality profiles

F:work values

- .-design assessment:
- -1.subject entry: A,

A:[career electrical technical ]--[mathematics informatics

:B]---[motoring:C]--

[Saqa award degree level: D]-- [Engineering electrical: E] --- [panel wiring: F], [Skill inventory: G]--[functionality transfer skill] and outcome's. ---

[Engineering technologies science studies [research Education and training arts audio visual technologies communication architecture Ana construction].

- -subject :key design
- -10. print "a"
- -20. print "b"
- -30. print "c"
- -40. print "d"
- -50. print "e"
- -60. print "f"
- -70. print "g"
- -80. Print. "h"
- -90. print "I"
- -100.print "j"

```
-110.print "k"
Sub
120. input "a1"
130. input "b1"
140. input "c1"
150. input "d1"
160. Input. "e1"
170. input "f1 "
180. Input. " g1"
190. Input. "H1"
200. Input. "i1"
210. input "j1"
220. input "k1"
Sub
230. output ( "a1"+"b1"+"c1")
240.output ("d1"+"e1"+"F1")
250.output ("g1"+"H1+"I")
260. Output (j)
Sub
270. if ;{"a1"+"b1"+"C1"}=1
280. Else="t "_subject =next step
290.if;{"d1"+"e1"+"F1"}
300.else" t " subject :next step
310.{" g1" +"H1"+"I"}
320.else
330. If and . subject step =1
340. Show :outcome display
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Design circuit principle career explain diagram
Design logograms:.
Designed Algorigramme.
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Designed table:
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Logic process
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B=001111111111
C=0001111111111
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F=00000011111
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I =000000000111

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K=00000000001

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- discovery - science department, education department, skill - design module Subject: career job outcome: .moderator, facilitator, assessor, personality,

14. 3.1-information management: Back ground : Design profile career Design recruiting job career information filing database career investigation - administration portfolio job theory job documentation job .persona information management system: information management system in: education information system: - - orientation system: - science computer :math ,physic information technology:literacy intelligence information management system, mil, security ,policy - information management system, use computer for information and use author resource stationary for information job physical and theory job resource book electronics automatic and Manuel ouvrage class lab, use office electronics for resource and use physical building - technical support pc - network support - ict support , Sub module - generative, data science, communication skill administrative performance.

Subject statement outcome: course module mathematics, engineering science,trade theory electrical, engineering drawings,:electrotech electrotech. National trade diploma, industrial electronics trade, average, assessment police, career:

Graduate program: Alison , Microsoft, schedule :, Ccma labour security officer,policy intelligence Records

-modulation 3month 90 days allocation credit 360: term . Outcom career transmission generation Graduate:post senior

Total: faculty course total computing -guidence outcom generation: engineering senior :engineering transmission dispatch custom +Dev op information ITC mathematics data science network path+special research motor +trainer training seniors educator technic ,job post subject , generalist A1,2, -sum a,b,c=. ,sum ,d, e,f=. sum= g,h,l:

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level grade, phase Angela 3month linear non linear scale synchronise, equivenlent trade, professional

- task module reader

Modulation ,activity

-Research operationel:method research career implementation career join venture subject course tendered minimum close contractor quotation compagny

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-display register key .plate .display line pin address.vertical
map, horizontal map AX=10000000000,AY=10000000000
Az=10000000000, , base synch
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Resolve variance, covariance equation linear ax+by+c=0,
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Dimensionnement algorithm, scale
-Research operationel
-lecture reading module activities career outcom disc task
call recall career module term asservissemnt lineare
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Ax,A,yAz,key to flip flop amplificator lecture career move
file read lecture captor analyser task .tap recording
memory heater accumulation career.
Research map(xa,ya,az) operationel career work outcome
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Transfer :research intelligence artificial genie mil ,civil
,technical security instruction key duty ,safety health labour
display. Career intelligence re Engineering, outcome job
opportunity scaling , coordination ordination axes x ,y,z,
Cartesian projection find job map transition
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DISCOVERY CAREER;
-JOB DISCOVERY LIBRARIE; BOOK JOB INVENTORY
JOBCAREER CAREER
-LEARNER DISCOVERY CAREER: JOB TOPIC CASE BOOK
COMPAGNY
-FACILITATOR DISCOVERY CAREER: JOB TOPIC CASE BOOK
COMPAGNY AGREEMENT
-LEARNER
NAME:
-
FACILITATOR:
NAME:
-MODERATOR
NAME:
-ASSESSOR
NAME:
INSTITUTION
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TW UVI
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COST PROJECT FILING: Tools assessment librarie and material assessment project

librariecareer center ENTRY CRITERIA /T

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- 15. productive , account. science engineering career: Engineering chemical, engineering physical engineering biological, mathematics engineering, engineering geoech echolologi, agriculture - science engineering electric career, engineering:. - science technical: Drawing engineering, electritechnic , electrtechnology ,electrical trade theory , mechanotechnic, electrtechnology mechanotechnology, control system Logic system, science building, construction, bricklay, fitting, Sub module, transmission generator -2.3. training science :skill science -Design module topic -2.4 study skill: module assessment facilitator moderator entry career and outcome career -2.5. study skill: job skill design circulum --task a job operating --a job requirements job -2.6.Topic: -Research skill job trade prospectus -2.7. background skill: -2.8. overview skill: -2.9. key. Skill: -2.10. keY.
  - Develop supervision systems for project shifts (day/night schedules).
  - Legal practices ensuring equitable workplace standards. esearch. Career, Eskom, city power municipality, department education, science expo, college institutes school, project

#### 1.RESEARCH PLAN:

- ENGINEERING TYPE, AND SCUENCE COMPUTER
- NAME : TSHINGOMBE TSHITADI
  -PROVISIONAL PROJECT TOPIC: IMPLEMENTATION
  FRAMEWORK POLICY COLLEGE AND SCHOOL
  ENGINEERING CIRCULAR ASSESSMENT POLICE
  EDUCATION TECHNOLOGY TEACH AND TECHNOLOGY
  ELECTRICAL SUBJECT SCHOOL QUALIFICATION LEVEL IN
  ENTREPRERSHIP AND INDUSTRIE SOCIETY
  COMMISSIONING AND GOVERNMENT MUNICIPALITY
  TEAM TRAINING WORK GRADUATION ENGINEERING
  TIMEFRAME .ST PEACE COLLEGE SCHOOL ORIENTATION
  GUIDE MANUEL POLICY -PROVISIONAL PROJECT EXPO
  CATEGORY..:
- INTRODUCTION:

the innovation define city power municipality government institutes city jhb delivery matter supply public and private urbanization energy electrical, And define Eskom entrepreneurs commission delivery society government industrial delivery public private energy electrical commissioner..the school and college institutes private public define by Education department teaching learner

science engineering apprentice and training and assessment of learner intellectual -need or problem defined: the research implementation problem need to resolve discovery rural and actually technology innovation industrial to integrate system to standard system knowledge support natural sciences design generated analyze combined sheet from school assessment Portfolio college career outcome Assessment information formative and Summative to workplace workshop mentoring components system to be improved or functionnning to the municipality and entrepreneurs industrial to promovate graduation in workplace. -research questions: Ask factor job career outcome transition phase learner phase exhibition phase teach beginning, intermediate, seignor get college junior cadet minim functions graduate chief post generation size industrial, development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary, -research time frame: Project ,importance time frame allocation time table research engineering and science electrical implementation break time load shedding time industrial loss gain resource human material energetic, time table adaptation system team synchronization, asynchronous system regulation time table periodic alternative or direction energy production system cost metering production human time frame to resolve movement frequency response of team step task project in the structure, resonance learner ,metering learner teacher, resonance learner and system robot actually must be synchronized slot frequency, control loop wizard register access card system movement personal in out robot system entrepreneurs synchronization system. speed level up date need to control by human robot system technology. -Aim: overview: in the review system career learner induction or error implementation framework regulatory mandatory learner human resource in time time frame must adjustable system and resolve registered system administration standard synchronization and stability adaptor system delay register, model rwin city, wring commission adapted illegally institutes or college need to training system and adapted in system upgrade update register circular policy engineering planning, -Engineering goals: Design, facilities learner Engineering entry model ,years learner up date ,up grade years 2023 to 2018 in college up date and new institutes and news outcyactual tendered job city. Class model grade 1 to grade 12 level n 1,6 college lev

#### 16. time management skill:

- \*\*.RESEARCH PLAN:\*\*
- ENGINEERING TYPE, AND SCUENCE COMPUTER
- NAME: TSHINGOMBE TSHITADI -PROVISIONAL PROJECT TOPIC: IMPLEMENTATION FRAMEWORK POLICY COLLEGE AND SCHOOL ENGINEERING CIRCULAR ASSESSMENT POLICE EDUCATION TECHNOLOGY TEACH AND TECHNOLOGY ELECTRICAL SUBJECT SCHOOL QUALIFICATION LEVEL IN ENTREPRERSHIP AND INDUSTRIE SOCIETY COMMISSIONING AND GOVERNMENT MUNICIPALITY TEAM TRAINING WORK GRADUATION ENGINEERING TIMEFRAME .ST PEACE COLLEGE SCHOOL ORIENTATION GUIDE MANUEL POLICY -PROVISIONAL PROJECT EXPO CATEGORY...:
- INTRODUCTION: the innovation define city power municipality government institutes city jhb delivery matter supply public and private urbanization energy electrical, And define Eskom entrepreneurs commission delivery society government industrial delivery public private energy electrical commissioner. .the school and college institutes private public define by Education department teaching learner science engineering apprentice and training and assessment of learner intellectual -need or problem defined: the research implementation problem need to resolve discovery rural and actually technology innovation industrial to integrate system to standard system knowledge support natural sciences design generated analyze combined sheet from school assessment Portfolio college career outcome Assessment information formative and Summative to workplace workshop mentoring components system to be improved or functionnning to the municipality and entrepreneurs industrial to promovate graduation in workplace. -research questions: Ask factor job career outcome transition phase learner phase exhibition phase teach beginning, intermediate, seignor get college junior cadet minim functions graduate chief post generation size industrial, development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary, -research time frame: Project, importance time frame allocation time table research engineering and science electrical implementation break time load shedding time industrial loss gain resource human material energetic, time table adaptation system team synchronization, asynchronous system regulation time table periodic alternative or direction energy production

system cost metering production human time frame to resolve movement frequency response of team step task project in the structure, resonance learner, metering learner teacher, resonance learner and system robot actually must be synchronized slot frequency, control loop wizard register access card system movement personal in out robot system entrepreneurs synchronization system. speed level up date need to control by human robot system technology. -Aim: overview: in the review system career learner induction or error implementation framework regulatory mandatory learner human resource in time time frame must adjustable system and resolve registered system administration standard synchronization and stability adaptor system delay register, model rwin city ,wring commission adapted illegally institutes or college need to training system and adapted in system upgrade update register circular policy engineering planning, -Engineering goals: Design, facilities learner Engineering entry model, years learner up date, up grade years 2023 to 2018 in college up date and new institutes and news outcyactual tendered job city. Class model grade 1 to grade 12 level n 1,6 college level, university level, N1 to n6, NQF 1,nqfto 3 qualifications framework n engineering, grade occupation certificate seignor council certificate Engineering, category, frequency term 1,2,3,4 semester move file Portofilio assessment student register

17. 1.Back ground: team course career training classwork orientation management school skill practice school design skill school society subject - evaluation assessment talent job classwork topic innovation target goal Annuel report. Record sheet mark career Pay fee financial share -3.2.Flowchart job : -3.3. schedule :

#### Summarize

bibliographic experimental

This extensive content explores the structure, methodology, and innovative aspects of Sci-Bono Discovery Center initiatives, career education, and technical studies. Below is an organized bibliographic description and analysis of the topics covered:

1. Career Development and Sci-Bono Discovery Center The Sci-Bono Discovery Center serves as an educational hub for enhancing science, technology, engineering, and mathematics (STEM) skills, offering career counseling, workshops, and resources.

#### **Key Features:**

- Library and Career Center Initiatives:
- o Tools for learners to explore diverse career opportunities through mentorship and guided assessments.
- o Integration of modern technologies for research and skill development.
- Career Discovery Focus:
- o Connects learners to emerging fields like electrical engineering, industrial technologies, and education innovations.
- o Emphasizes psychometric testing and formative assessments to evaluate career readiness.
- 2. Research-Based Experimental Frameworks Provisional Projects:
- 1. Engineering and Science Initiatives:
- o Focused on educational reform, circular assessments, and technological integration for schools and colleges.
- o Builds collaboration between Eskom, municipal power systems, and government policy frameworks.
- 2. Exploring Practical Applications:
- Learner integration into industries like energy and manufacturing.
- o Projects designed to solve industrial and educational challenges.
- 3. Suggestions for Improvement

Key elements to enhance learning experiences:

- 1. Clarity and Simplicity: Ensure resources are user-friendly and accessible.
- 2. Relevance: Align content with career trends and industrial needs.
- 3. Customization Options: Personalize learning paths for

diverse learner profiles.

- 4. Feedback Mechanism: Build iterative systems for continuous improvement.
- 4. Integrated Modules for Career Growth Core Educational Modules:
- Training Science Skills: Focus on experimental tasks, problem-solving, and collaboration.
- Time Management Skills: Mathematical techniques to optimize project scheduling and deadlines.
- Job Search Skills: Practical tools for workplace readiness. Advanced Topics:
- Engineering and Technology Modules:
- o Emphasizes logical operations, binary conversions, and circuit designs.
- Expanded Integration:
- o Develop technical capabilities using coding for system simulations.
- 5. Data Management and Application Material and Resources:
- Use digital tools like laptops, USB ports, and computer systems for scalable learning and project designs.
- Integrate robotics and automated systems for operational efficiency.

System Design and Programming:

- 1. Input-Output Evaluation Logic: Automate data collection and management for engineering systems.
- 2. Algorithmic Testing: Build iterative loops to assess learner or project performance.
- 6. Mathematical and Technical Integration Calculations and Derivations:
- Energy Consumption: \$\$ E = \int P(t) \, dt \$\$
- o Assess total energy usage in experimental systems.
- Component Sizing: \$\$ R = \rho \frac{I}{A} \$\$
- o Calculate material dimensions to optimize circuit performance.

Phase System Configurations:

- Modular learning in electrical installations, amplifiers, and control systems through phased delivery:
- o Phase A-C: Foundational components like resistors and rectifiers.
- o Phase D-F: Advanced systems (amplifiers, transistors).
- 7. Operational Framework and Ethics
- Safety in Implementation: Ensure learner and worker safety through regulatory standards.
- Time Frames: Adapt schedules for energy disruptions, industrial loss recovery, and academic delivery goals.

3.4.Post job

3.5.Rosta job Ruling

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18. Job search skill: Interview job recruiting career classwork Written interview, lms
Overview Topics - formative: - summative
Question answer job - methodology skill: introduction skill, development skill, conclusion skill present news. . Research cvs.
Data base cvs circulum motivation

Learner Name (s): tshingombe tshitadi Grade(s): \_\_\_\_\_12/ \_\_\_, n6 \_ School Name: \_\_st peace collge \_\_\_\_\_ \_Region: gauteng Project Title: \_\_the implementation framework circulum knowledge circulum policy engineering planing product improvement contractual agreement with register trainer and consultant engineering electrical and computer science engineering 1.abstract: the implementation framework circulum knowledge circulum policy engineering planing product improvement contractual agreement with register trainer and consultant engineering electrical and computer science engineering static material drawing need discovery Channel partner ways together with the quality plan on being there for system need system generated undergoing next year's and analyse to zero loadshedding or Rental system information recommand theory practice of anticipating dangers social media teach the innovation define city power municipality government institutes city jhb delivery matter supply public and private urbanization energy electrical, And define Eskom entrepreneurs commission delivery society government industrial delivery public private energy electrical commissioner . .the school and college institutes private public define by Education department teaching learner science engineering apprentice and training and assessment of learner intellectual -need or problem defined : the research implementation problem need to resolve discovery rural and actually technology innovation industrial to integrate system to standard system knowledge support natural sciences design generated analyze combined sheet from school assessment Portfolio college career outcome Assessment information formative and Summative to workplace workshop mentoring components system to be improved or functionnning to the municipality and entrepreneurs industrial to promovate graduation in workplace. -research questions: Ask factor job career outcome transition phase learner phase exhibition phase teach beginning, intermediate, seignor get college junior cadet minim functions graduate chief post generation size industrial, development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer

system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary 2. Purpose: Ask factor job career outcome transition phase learner phase exhibition phase teach beginning, intermediate, seignor get college junior cadet minim functions graduate chief post generation size industrial, development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary, -research time frame: Project, importance time frame allocation time table research engineering and science electrical implementation break time load shedding time industrial loss gain resource human material energetic, time table adaptation system team synchronization, asynchronous system regulation time table periodic alternative or direction energy production system cost metering production human time frame to resolve movement frequency response of team step task project in the structure, resonance learner, metering learner teacher, resonance learner and system robot actually must be synchronized s 3.Method: METHOD: MATERIAL AND EQUIPMENT: methology specific guidelines assessment formative Summative rebruc, tools assessme

19. work readiness: - Technical lecture training handling typic job . - workplace design skill - background. Overview : employment contract ,salary basical job. Lecture assessment facitatir ,internal ,external learner skill . Post durmty ,task lecture step execution system... Topics :

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#### • INTRODUCTION:

the innovation define city power municipality government institutes city jhb delivery matter supply public and private urbanization energy electrical, And define Eskom entrepreneurs commission delivery society government industrial delivery public private energy electrical commissioner . .the school and college institutes private public define by Education department teaching learner science engineering apprentice and training and assessment of learner intellectual -need or problem defined: the research implementation problem need to resolve discovery rural and actually technology innovation industrial to integrate system to standard system knowledge support natural sciences design generated analyze combined sheet from school assessment Portfolio college career outcome Assessment information formative and Summative to workplace workshop mentoring components system to be improved or functionnning to the municipality and entrepreneurs industrial to promovate graduation in workplace. -research questions: Ask factor job career outcome transition phase learner phase exhibition phase teach beginning, intermediate, seignor get college junior cadet minim functions graduate chief post generation size industrial, development outcome machine industrial problem industrial maintenance support, manufacture support technical science actual system machine computer system news technology robot science energies need career outcome integration human and material support to resolve demand factor in humans size outcome tendered bid and material resource capacity product integration. to resolve team timeframe operational system month daily diary, -research time frame: Project importance time frame allocation time table research, engineering and science electrical implementation break time load shedding time industrial loss gain resource human material energetic ,time table adaptation system team synchronization, asynchronous system regulation time table periodic alternative or direction energy production system cost metering production human time frame to resolve movement frequency response of team step task project in the structure, resonance learner metering learner teacher, resonance learner and system, robot actually must be synchronized slot frequency, control loop wizard register access card system movement

personal in out robot system entrepreneurs synchronization system, speed level up date need to control by human robot system technology. -Aim: overview: in the review system career learner induction or error implementation framework regulatory mandatory learner human resource in time time frame must adjustable system and resolve registered system administration standard synchronization and stability adaptor system delay register, model rwin city, wring commission adapted illegally institutes or college need to training system and adapted in system upgrade update register circular policy engineering planning, -Engineering goals: Design, facilities learner Engineering entry model years learner up date up grade years 2023 to 2018 in college up date and new institutes and news outcyactual tendered job city. Class model grade 1 to grade 12 level n 1,6 college level, university level, N1 to n6, NQF 1,nqfto 3 qualifications framework n engineering, grade occupation certificate seignor council certificate Engineering, category, frequency term 1,2,3,4 semester move file Portofilio assessment student register Poe's docket case indicator job logine, compare scaling, compare, comtency rating, Synchronous induction learner speed slot intellectual quotient learner entry exhibition, efficiency learner ,average, Probability learner gate job integrity post learner Portofolio learner award learner, probably learner job equity engineering and electrician daily meeting. More less induction error proefficuence more, Goal close tendered minimum graduat learner posted salary recruitment post, maintenace poor, ,-algorith achieve,

20. Self directed , career: Overground ,system . - topic Outcome ,autodiacti ,autobiographical learners research build circulum teach self task execution ------

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, synchrono	ous intelligence it ,
Teacher's/N	Nentor's name, signature and date:
SOCIAL	SCIENCES PROJECTS
NAME:	tshingombe tshitadi

PROVISIONAL PROJECT TOPIC:

#### PROVISIONAL EXPO CATEGORY:

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Delete all guidelines under the following headings once you have completed your Research Plan Introduction? Problem Statement: What problem(s)/issue will you be addressing/exploring? Write the research question(s) or problem statement.

Research question(s): Question). Aim: What is the aim/objective of this research project?

Hypothesis: Variables: Method Procedure: tables, graphs? Ethics Safety If you do not have any potential safety issues, leave section blank.

**Time Frames** 

References

Teacher's/Mentor's comments and suggestions: tshingombefiston@gmail.com Aug 28, 2023, 8:09 PM (6 days ago)

to Support

Project social.. 1.

- 2. Social investigation: science natural Support social creation and recreation orientation circulum Assessment police social enterprise entrepreneurs sector products resource energie electrical commissioner, training support system circulum, synchronouse system social machinery social safety government system in the time framework regulatority circulum sector education grade and level in the job system, development sub sectorial system system social worker synchronouse Social worker public work system basic advanced must synchronouse with social system, labour worker OSHA safety society synchronouse with Commission electrical engineering worker data, 3.
- 3.1Teacher mentor :social education Social education labour and land reform system, organisation entrepreneurs and humain resource system education system asynchronous, system class society, grade society science mass media society work classes.
- families class work project, organisation non

- governmental social education entrepreneurs workers sub sector self employed self business was illegal or fraudulent system in normale system entreprise government system asynchron, need to educate social media by training for to synchronouse, -3.2 lesson system social media support rural to teach and non gov,
- -file worker, size years, skill development,size ,class skill ,model frequency ,means , value compared ,size social skill or semie skill grade , qualifications employment years , normal ,criteria choice guidelines normal, ,,report learner ,report job normal work labour synchronouse , report job pay hr give normal conditions , . Calcul system find balance merge social .good job
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- 1.2Teacher mentoring: Teacher education, system mathematics education subject lesson circulum, apply skill compilation language logic intelligence or robot system capacity of synchronouse system, mastering skill number use instrumental take

21. Learnership employment skill training:
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strengths,, Teacher's/Mentor's name, signature and date: Social education, education environment, geographic life cycle industrial recycle synchronise system biogenes system hygiene system project expo science
Support support@exposcience.co.za Tue, Aug 29, 2023 at 8:59 AM To: tshingombe fiston
tshingombefiston@gmail.com Good day
Did you participate with the same project at a regional expo?
Expo Team 63 Reier Road Atlasville Boksburg Gauteng  1459 South Africa T: +27 11 894 1365  F2M:+27 866243127 www.exposcience.co.za
-TOPICS ; DISCOVERY INVENTOR SCIENCE TECHNICAL
TECHNOLOGY ENGINEERING -SUB TOPIC: DEPATMENT
EDUCATION -SCIE BONO: EXPO SCIENCE / FUND EXPO, /
TECHNO SCIENCE EXPO
-NAME CASE STUDY: -LEARNER NAME: -EDUCATOR
NAME: -REF: -TOPICS ASSESSMNT SUMMARY: PENTENT
INVENTION CLAIM RELATE LOW TRADE MANUFACTURE
PROCESS, -BOOK INVENTION PROCESS RESEARCH
PAPPER LITERAIRE PRICE LESSON PLAN
REF UNITY DESIGN CHECK Y/N MEET INVENT PRICE NOBEL INVENTION DISCOVERY; AWARD BOOK , REWARD

## BOOK PURCHACHE AERN BOOK, RERWITEN BOOK INVENTION PROJECT,

his extensive content explores the structure, methodology, and innovative aspects of Sci-Bono Discovery Center initiatives, career education, and technical studies. Below is an organized bibliographic description and analysis of the topics covered:

1. Career Development and Sci-Bono Discovery Center The Sci-Bono Discovery Center serves as an educational hub for enhancing science, technology, engineering, and mathematics (STEM) skills, offering career counseling, workshops, and resources.

#### **Key Features:**

- · Library and Career Center Initiatives:
- o Tools for learners to explore diverse career opportunities through mentorship and guided assessments.
- o Integration of modern technologies for research and skill development.
- Career Discovery Focus:
- o Connects learners to emerging fields like electrical engineering, industrial technologies, and education innovations.
- o Emphasizes psychometric testing and formative assessments to evaluate career readiness.
- 2. Research-Based Experimental Frameworks Provisional Projects:
- 1. Engineering and Science Initiatives:
- o Focused on educational reform, circular assessments, and technological integration for schools and colleges.
- o Builds collaboration between Eskom, municipal power systems, and government policy frameworks.
- 2. Exploring Practical Applications:
- o Learner integration into industries like energy and manufacturing.
- o Projects designed to solve industrial and educational challenges.
- 3. Suggestions for Improvement

Key elements to enhance learning experiences:

- 1. Clarity and Simplicity: Ensure resources are user-friendly and accessible.
- 2. Relevance: Align content with career trends and industrial needs.
- 3. Customization Options: Personalize learning paths for diverse learner profiles.
- 4. Feedback Mechanism: Build iterative systems for continuous improvement.
- 4. Integrated Modules for Career Growth Core Educational Modules:
- Training Science Skills: Focus on experimental tasks, problem-solving, and collaboration.
- Time Management Skills: Mathematical techniques to optimize project scheduling and deadlines.
- Job Search Skills: Practical tools for workplace readiness. Advanced Topics:

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- Expanded Integration:
- o Develop te
- 22. tertiary studies info: Career design discussing purpose requirements. Abstral career Topics career core Compared career field analysis data advantage of career disadvantage career ..

No answer provided.

Score 🗘 / 0 pts

23. Career info resources: Design career technical documentation Investigation ,literacy research data - autobiographical. - bibliotech bibliographic. ,Research paper ,journal ,magazine textbook, review court. Low rules practice Manuel , guideline book hand book,. Tv ,video meeting ,web page computer ,personality authority , ,Any author , Science militaire ,duty post military recruiting sign language military code resource . - science police introduction,duty post policing , - security science become duty natural fitting ,post duty key basic ..

strengtns,,
Teacher's/Mentor's name, signature and date:
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system hygiene system project expo science
Support support@exposcience.co.za Tue, Aug 29, 2023 at
8:59 AM To: tshingombe fiston
tshingombefiston@gmail.com Good day
Did you participate with the same project at a regional
expo?
Expo Team 63 Reier Road Atlasville Boksburg Gauteng
1459 South Africa T: +27 11 894 1365  F2M:+27 866243127
www.exposcience.co.za
-TOPICS ; DISCOVERY INVENTOR SCIENCE TECHNICAL
TECHNOLOGY ENGINEERING -SUB TOPIC: DEPATMENT
EDUCATION -SCIE BONO: EXPO SCIENCE / FUND EXPO, /
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PAPPER LITERAIRE PRICE LESSON PLAN

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REF UNITY DESIGN CHECK Y/N MEET INVENT PRICE NOBEL INVENTION DISCOVERY; AWARD BOOK, REWARD BOOK PURCHACHE AERN BOOK, RERWITEN BOOK INVENTION PROJECT,

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- Expanded Integration:
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to me, TSHINGOMBEKB

- how didn't know career center: Knowledge: of career abstract transformation job library rwiten job issue job course topics job, application of job design. - facilitator note client issue info: Issue topic: We recommendation of outcome release results of assessment and record task of assess outcome, award diploma topic Issue of schal wehiting of rwiten career guidence., outcome data script transcript save need printer in time management conciliation irregularities of printer irregularities of script material

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Needs review

Score \$\(^\) / 10 pts
Needs review

- 24. Question: choice option
  - Option 1
  - Option 2
  - Needs review

Score \$\frac{10}{\text{ pts}}\$

25. Question: completed note

7. Operational Framework and Ethics • Safety in Implementation: Ensure learner and worker safety through regulatory standards. • Time Frames: Adapt schedules for energy disruptions, industrial loss recovery, and academic delivery goals.

**☑** Needs review

Score \$\frac{10}{\text{ pts}}\$

26. Question: completed

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### 0 0 / 10 pts X Incorrect 0/10 Points Auto-graded 27. Question: completed note No answer provided. Score \$\times / 10 pts Needs review Needs review 28. Question: completed note Option 2 Option 1 Statement 1 Statement 2 Score \$\times / 10 pts Needs review Needs review 29. How likely are you to recommend us to a friend or colleague? 0 8 9 5 10 Not at all likely Extremely likely Section: completed note Score \$\times / 0 pts 30. Question 7. Operational Framework and Ethics • Safety in Implementation: Ensure learner and worker safety through regulatory standards. • Time Frames: Adapt schedules for

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energy disruptions, industrial loss recovery, and academic

delivery goals.