

Twice Born Ministry

TECH-PY-102: Python for Automation & Data Stewardship

Course Code: TECH-PY-102

Credit Hours: 3

King James Version (KJV) — Sola Scriptura Curriculum

Generated 2026-06-30

Course Description

TECH-PY-102: Python for Automation & Data Stewardship

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CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

This course is part of **Layer 4 — Career Tracks** (Track D: Technical / IT / Cloud / AI / Marketing) in the Twice Born Ministry Bible School catalog. **College category:** Programming.

Course Details

| Field | Value |

|-----|-----|

| **Course Code** | TECH-PY-102 |

| **Career Track** | D — Technical / IT / Cloud / AI / Marketing |

| **Catalog Track** | Python Automation |

| **College Category** | Programming |

| **Credit Hours** | 3 |

| **Weeks** | 12 |

| **Lessons** | 12 |

| **Prerequisites** | TECH-PY-101 |

| **Homeschool Band** | College |

| **Primary Text** | King James Version (KJV) |

| **Source / Resources** | Python stdlib; pandas awareness; automation ethics |

TBM Cross-References

- TECH-PY-101

- • AI-102 cross-ref
- • Kingdom Capital Ch 6-10

Learning Outcomes

Upon completion, students will be able to:

1. Explain core concepts and vocabulary for this vocational domain at college introductory level.

2. Apply biblical ethics when secular models conflict with Kingdom priorities.
3. Complete practical assignments, scenarios, or lab exercises with documented integrity.
4. Articulate connections between vocation, stewardship, and local church ministry.
5. Pass module quizzes and capstone assessments at 70% or higher.

Assessment Overview

- **Module quizzes:** JSON per module (multiple choice + short answer).
- **Assignments:** 3–4 rubric-graded projects.
- **Group projects:** 2 collaborative exercises.
- **Final exam:** Comprehensive short and extended responses.
- **Video scripts:** 3–5 instructor scripts for optional production.

Christian Guardrails

- KJV citation standard; Christ-centered instruction.
- Career exploration does not replace licensure, trade apprenticeships, or professional counsel where required.
- AI tools may assist research but not replace original work or pastoral judgment.

Instructor Notes

Professor Shepherd AI instructor shortcode: [tb_ai_instructor
course_code="TECH-PY-102"]

Twice Born Ministry Bible School — Layer 4 Career Tracks

Course Modules

TECH-PY-102 — Lesson 1: Automation Theology: Multiply Time, Not Laziness

Introduction

Welcome to Lesson 1 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Automation Theology: Multiply Time, Not Laziness** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and Marketing/TBM_MARKETING_PLUGIN.md.

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Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Automation Theology: Multiply Time, Not Laziness**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import csv
from pathlib import Path
rows = [{"item": "bulletins", "qty": 500}]
path = Path("inventory.csv")
with path.open("w", newline="", encoding="utf-8") as f:
```

```
writer = csv.DictWriter(f, fieldnames=["item", "qty"])
writer.writeheader()
writer.writerows(rows)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Automation Theology: Multiply Time, Not Laziness

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

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TBM & Catalog Cross-References

- TECH-PY-101
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- Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult `Marketing/TBM_MARKETING_PLUGIN.md` for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Automation Theology: Multiply Time, Not Laziness should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 1: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Automation Theology: Multiply Time, Not Laziness** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 1 Summary: We examined **Automation Theology: Multiply Time, Not Laziness** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 2. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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TECH-PY-102 — Lesson 2: Working with CSV and JSON Responsibly

Introduction

Welcome to Lesson 2 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Working with CSV and JSON Responsibly** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

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Christian Ethics Integration — Stewardship

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Apply this principle while studying **Working with CSV and JSON Responsibly**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import os
import requests
```

Never commit keys — load from environment

```
api_key = os.environ.get("EXAMPLE_API_KEY")
```

```
if not api_key:
```

```
    raise SystemExit("Set EXAMPLE_API_KEY in your shell environment.")
```

```
resp = requests.get("https://api.example.com/status",  
                    timeout=10)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Working with CSV and JSON Responsibly

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
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Application for Vocation and Ministry

Working with CSV and JSON Responsibly should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 2: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Working with CSV and JSON Responsibly** align with Colossians 3:23 ("as to the Lord")?

- What secular practice in this field most often conflicts with biblical ethics?
- Which prerequisite course or TBM resource best supports this lesson?
- How would you teach this topic to a high school dual-enrollment student?
- What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 2 Summary: We examined **Working with CSV and JSON Responsibly** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 3. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

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Supplemental Reading and Reflection

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Historical Figure Spotlight

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TECH-PY-102 — Lesson 3: Requests, APIs, and Rate-Limit Stewardship

Introduction

Welcome to Lesson 3 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Requests, APIs, and Rate-Limit Stewardship** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

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Hands-On Lab

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Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Requests, APIs, and Rate-Limit Stewardship

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Practical Focus

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Discussion Questions

How does **Requests, APIs, and Rate-Limit Stewardship** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 3 Summary: We examined **Requests, APIs, and Rate-Limit Stewardship** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

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biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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Worship Integration

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TECH-PY-102 — Lesson 4: Environment Variables and Secret Management

Introduction

Welcome to Lesson 4 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Environment Variables and Secret Management** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and `Marketing/TBM_MARKETING_PLUGIN.md`.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Environment Variables and Secret Management**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import os
import requests
```

Never commit keys — load from environment

```
api_key = os.environ.get("EXAMPLE_API_KEY")
if not api_key:
    raise SystemExit("Set EXAMPLE_API_KEY in your shell environment.")
```

```
resp = requests.get("https://api.example.com/status",
timeout=10)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Environment Variables and Secret Management

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- TECH-PY-101
- • AI-102 cross-ref
- • Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult Marketing/TBM_MARKETING_PLUGIN.md for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Environment Variables and Secret Management should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 4: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Environment Variables and Secret Management** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 4 Summary: We examined **Environment Variables and Secret Management** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 5. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

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Ministry Case Study

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Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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TECH-PY-102 — Lesson 5: Scheduling Tasks: cron and Task Scheduler Intro

Introduction

Welcome to Lesson 5 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Scheduling Tasks: cron and Task Scheduler Intro** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and Marketing/TBM_MARKETING_PLUGIN.md.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Scheduling Tasks: cron and Task Scheduler Intro**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import csv
from pathlib import Path
rows = [{"item": "bulletins", "qty": 500}]
path = Path("inventory.csv")
with path.open("w", newline="", encoding="utf-8") as f:
    writer = csv.DictWriter(f, fieldnames=["item", "qty"])
    writer.writeheader()
    writer.writerows(rows)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Scheduling Tasks: cron and Task Scheduler Intro

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

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TBM & Catalog Cross-References

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 - AI-102 cross-ref
 - Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult Marketing/TBM_MARKETING_PLUGIN.md for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Scheduling Tasks: cron and Task Scheduler Intro should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 5: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Scheduling Tasks: cron and Task Scheduler Intro** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 5 Summary: We examined **Scheduling Tasks: cron and Task Scheduler Intro** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 6. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Ministry Case Study

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Worship Integration

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Supplemental Reading and Reflection

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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Worship Integration

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Worship Integration

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TECH-PY-102 — Lesson 6: Email and Notification Scripts with Consent

Introduction

Welcome to Lesson 6 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Email and Notification Scripts with Consent** within the **Track D — Technical / IT / Cloud /**

AI / Marketing pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and Marketing/TBM_MARKETING_PLUGIN.md.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

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Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Email and Notification Scripts with Consent**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import os
import requests
```

Never commit keys — load from environment

```
api_key = os.environ.get("EXAMPLE_API_KEY")
if not api_key:
    raise SystemExit("Set EXAMPLE_API_KEY in your shell environment.")
```

```
resp = requests.get("https://api.example.com/status",
timeout=10)
```

```
,
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Email and Notification Scripts with Consent

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
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TBM & Catalog Cross-References

- TECH-PY-101
- • AI-102 cross-ref
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TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult `Marketing/TBM_MARKETING_PLUGIN.md` for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Email and Notification Scripts with Consent should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

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Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 6: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Email and Notification Scripts with Consent** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 6 Summary: We examined **Email and Notification Scripts with Consent** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 7. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

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Worship Integration

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Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

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TECH-PY-102 — Lesson 7: Pandas Intro: Summaries Without PII Leaks

Introduction

Welcome to Lesson 7 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Pandas Intro: Summaries Without PII Leaks** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and `Marketing/TBM_MARKETING_PLUGIN.md`.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Pandas Intro: Summaries Without PII Leaks**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import csv
from pathlib import Path
rows = [{"item": "bulletins", "qty": 500}]
path = Path("inventory.csv")
with path.open("w", newline="", encoding="utf-8") as f:
    writer = csv.DictWriter(f, fieldnames=["item", "qty"])
    writer.writeheader()
```

```
writer.writerows(rows)
```

```
,
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Pandas Intro: Summaries Without PII Leaks

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- TECH-PY-101
- • AI-102 cross-ref
- • Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult Marketing/TBM_MARKETING_PLUGIN.md for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Pandas Intro: Summaries Without PII Leaks should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 7: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Pandas Intro: Summaries Without PII Leaks** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 7 Summary: We examined **Pandas Intro: Summaries Without PII Leaks** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 8. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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Ministry Case Study

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TECH-PY-102 — Lesson 8: Web Scraping Ethics and robots.txt

Introduction

Welcome to Lesson 8 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Web Scraping Ethics and robots.txt** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and Marketing/TBM_MARKETING_PLUGIN.md.

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Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Web Scraping Ethics and robots.txt**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import os
import requests
```

Never commit keys — load from environment

```
api_key = os.environ.get("EXAMPLE_API_KEY")
```

```
if not api_key:
```

```
    raise SystemExit("Set EXAMPLE_API_KEY in your shell environment.")
```

```
resp = requests.get("https://api.example.com/status",  
                    timeout=10)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Web Scraping Ethics and robots.txt

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
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Professional Standards

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TBM & Catalog Cross-References

- TECH-PY-101

- AI-102 cross-ref
- Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult `Marketing/TBM_MARKETING_PLUGIN.md` for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Web Scraping Ethics and robots.txt should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

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Exercise 8: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Web Scraping Ethics and robots.txt** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 8 Summary: We examined **Web Scraping Ethics and robots.txt** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 9. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

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TECH-PY-102 — Lesson 9: Document Generation for Ministry Reports

Introduction

Welcome to Lesson 9 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Document Generation for Ministry Reports** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and Marketing/TBM_MARKETING_PLUGIN.md.

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Christian Ethics Integration — Stewardship

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Apply this principle while studying **Document Generation for Ministry Reports**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import csv
from pathlib import Path
rows = [{"item": "bulletins", "qty": 500}]
path = Path("inventory.csv")
with path.open("w", newline="", encoding="utf-8") as f:
    writer = csv.DictWriter(f, fieldnames=["item", "qty"])
    writer.writeheader()
    writer.writerows(rows)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Document Generation for Ministry Reports

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
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Professional Standards

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TBM & Catalog Cross-References

- TECH-PY-101

- AI-102 cross-ref
- Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult Marketing/TBM_MARKETING_PLUGIN.md for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Document Generation for Ministry Reports should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

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Exercise 9: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Document Generation for Ministry Reports** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 9 Summary: We examined **Document Generation for Ministry Reports** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 10. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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Historical Figure Spotlight

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Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

TECH-PY-102 — Lesson 10: Integrating AI APIs with Human Review Gates

Introduction

Welcome to Lesson 10 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Integrating AI APIs with Human Review Gates** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and `Marketing/TBM_MARKETING_PLUGIN.md`.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Integrating AI APIs with Human Review Gates**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import os
import requests
```

Never commit keys — load from environment

```
api_key = os.environ.get("EXAMPLE_API_KEY")
if not api_key:
    raise SystemExit("Set EXAMPLE_API_KEY in your shell environment.")
```

```
resp = requests.get("https://api.example.com/status",
timeout=10)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Integrating AI APIs with Human Review Gates

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- TECH-PY-101
- • AI-102 cross-ref
- • Kingdom Capital Ch 6-10

TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult Marketing/TBM_MARKETING_PLUGIN.md for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Integrating AI APIs with Human Review Gates should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 10: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Integrating AI APIs with Human Review Gates** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 10 Summary: We examined **Integrating AI APIs with Human Review Gates** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 11. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Ministry Case Study

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Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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TECH-PY-102 — Lesson 11: Packaging Scripts for Team Handoff

Introduction

Welcome to Lesson 11 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Packaging Scripts for Team Handoff** within the **Track D — Technical / IT / Cloud / AI / Marketing** pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and `Marketing/TBM_MARKETING_PLUGIN.md`.

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Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof; the world, and they that dwell therein (Psalm 24:1, KJV). Technology—including AI—is borrowed stewardship, not autonomous lordship.

Apply this principle while studying **Packaging Scripts for Team Handoff**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import csv
from pathlib import Path
rows = [{"item": "bulletins", "qty": 500}]
path = Path("inventory.csv")
with path.open("w", newline="", encoding="utf-8") as f:
    writer = csv.DictWriter(f, fieldnames=["item", "qty"])
    writer.writeheader()
    writer.writerows(rows)
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Packaging Scripts for Team Handoff

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
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Professional Standards

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TBM Marketing / Wavecraft Integration

Where this course touches digital outreach, consult Marketing/TBM_MARKETING_PLUGIN.md for plugin settings: Daily Blog, Blog Category, GHL Integrations, Funnel playbook, and Blog2Social bridges. Configure white-label settings under TBM Marketing → Settings.

Application for Vocation and Ministry

Packaging Scripts for Team Handoff should change how you work, lead, serve customers, and witness.

Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 11: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Packaging Scripts for Team Handoff** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 11 Summary: We examined **Packaging Scripts for Team Handoff** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 12. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Historical Figure Spotlight

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Worship Integration

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TECH-PY-102 — Lesson 12: Capstone: Automation Pipeline with Audit Log

Introduction

Welcome to Lesson 12 of **Python for Automation & Data Stewardship** (TECH-PY-102). This session explores **Capstone: Automation Pipeline with Audit Log** within the **Track D — Technical / IT /**

Cloud / AI / Marketing pathway at Twice Born Ministry Bible School.

This career track equips digital stewards for ministry and marketplace. Marketing courses cross-reference the TBM Marketing plugin (Wavecraft) and Marketing/TBM_MARKETING_PLUGIN.md.

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Christian Ethics Integration — Stewardship

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Apply this principle while studying **Capstone: Automation Pipeline with Audit Log**: document who reviews AI output, what data may enter prompts, and when to refuse tool use that violates conscience or church policy.

Hands-On Lab

```
`python
import os
import requests
```

Never commit keys — load from environment

```
api_key = os.environ.get("EXAMPLE_API_KEY")
if not api_key:
    raise SystemExit("Set EXAMPLE_API_KEY in your shell environment.")
```

```
resp = requests.get("https://api.example.com/status",
timeout=10)
```

```
,
```

Integrity note: Submit your own work; cite any AI assistance per course honor code.

Core Teaching

Theme: Capstone: Automation Pipeline with Audit Log

The heavens declare the glory of God; and the firmament sheweth his handywork (Psalm 19:1, KJV). Technology extends human creativity made in God's image yet must never replace dependence on the Creator.

Prove all things; hold fast that which is good (1 Thessalonians 5:21, KJV). Digital tools—AI, cloud platforms, marketing automation—require discernment. Test every workflow against Scripture and conscience.

Practical Focus

CSV processing, APIs, scheduling, and data hygiene for church ops, publishing pipelines, and ethical analytics without surveillance idolatry.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
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TBM & Catalog Cross-References

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Application for Vocation and Ministry

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Digital practice: Configure a lab environment, diagram, or content draft. Document security and ethics decisions.

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Exercise 12: Build a diagram, wireframe, or configuration checklist. Peer-review for accessibility, security, and ethical messaging.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Capstone: Automation Pipeline with Audit Log** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 12 Summary: We examined **Capstone: Automation Pipeline with Audit Log** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to the capstone module. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

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Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

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Historical Figure Spotlight

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Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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Appendix A — Assignments

Week 01

Week 01 Assignment — Reflection Journal

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 1: Automation Theology: Multiply Time, Not Laziness

Learning objective (Bloom's taxonomy)

Students will **analyze** course content from **TECH-PY-102 — Lesson 1: Automation Theology: Multiply Time, Not Laziness** with KJV integration and measurable evidence in the submission.

Task

Analyze: Write a 300–500 word reflection on **TECH-PY-102 — Lesson 1: Automation Theology: Multiply Time, Not Laziness**. Include at least two KJV citations and one personal application.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Automation, Theology

Week 02

Week 02 Assignment — Memory Verse Application

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 2: Working with CSV and JSON Responsibly

Learning objective (Bloom's taxonomy)

Students will **apply** course content from **TECH-PY-102 — Lesson 2: Working with CSV and JSON Responsibly** with KJV integration and measurable evidence in the submission.

Task

Apply: Recite this week's memory verse from memory, then write 250 words explaining how it applies to daily discipleship.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Working, Responsibly

Week 03

Week 03 Assignment — Expository Outline

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 3: Requests, APIs, and Rate-Limit Stewardship

Learning objective (Bloom's taxonomy)

Students will **outline** course content from **TECH-PY-102 — Lesson 3: Requests, APIs, and Rate-Limit Stewardship** with KJV integration and measurable evidence in the submission.

Task

Outline: Produce a structured outline (400+ words) for the main passage in **TECH-PY-102 — Lesson 3: Requests, APIs, and Rate-Limit Stewardship**. Include pericope titles and one-sentence themes.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Requests, Limit

Week 04

Week 04 Assignment — Discussion Response

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 4: Environment Variables and Secret Management

Learning objective (Bloom's taxonomy)

Students will **explain** course content from **TECH-PY-102 — Lesson 4: Environment Variables and Secret Management** with KJV integration and measurable evidence in the submission.

Task

Explain: Answer two discussion prompts from the Week 4 reading in 200 words each. Cite KJV only.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Environment, Variables

Week 05

Week 05 Assignment — Practical Ministry Step

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 5: Scheduling Tasks: cron and Task Scheduler Intro

Learning objective (Bloom's taxonomy)

Students will **demonstrate** course content from **TECH-PY-102 — Lesson 5: Scheduling Tasks: cron and Task Scheduler Intro** with KJV integration and measurable evidence in the submission.

Task

Demonstrate: Complete one practical ministry action tied to **TECH-PY-102 — Lesson 5: Scheduling Tasks: cron and Task Scheduler Intro** (visit, prayer walk, family worship, or service). Submit a 200-word report plus optional photo upload.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Manual review (practical/upload).

Pass: 70%

Rubric (100 points)

Week 06

Week 06 Assignment — Witness Outline

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 6: Email and Notification Scripts with Consent

Learning objective (Bloom's taxonomy)

Students will **construct** course content from **TECH-PY-102 — Lesson 6: Email and Notification Scripts with Consent** with KJV integration and measurable evidence in the submission.

Task

Construct: Draft a 3-minute spoken witness outline using this week's theme. Include gospel bridge, one objection with biblical answer, and call to faith.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Email, Notification

Week 07

Week 07 Assignment — Cross-Reference Study

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 7: Pandas Intro: Summaries Without PII Leaks

Learning objective (Bloom's taxonomy)

Students will **compare** course content from **TECH-PY-102 — Lesson 7: Pandas Intro: Summaries Without PII Leaks** with KJV integration and measurable evidence in the submission.

Task

Compare: Find three cross-references that illuminate **TECH-PY-102 — Lesson 7: Pandas Intro: Summaries Without PII Leaks**. Write 400 words comparing themes (OT + NT).

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Pandas, Intro

Week 08

Week 08 Assignment — Historical Context Brief

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 8: Web Scraping Ethics and robots.txt

Learning objective (Bloom's taxonomy)

Students will **describe** course content from **TECH-PY-102 — Lesson 8: Web Scraping Ethics and robots.txt** with KJV integration and measurable evidence in the submission.

Task

Describe: Write 350 words on historical/literary context for **TECH-PY-102 — Lesson 8: Web Scraping Ethics and robots.txt**. Minimum four KJV citations.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Scraping, Ethics

Week 09

Week 09 Assignment — Christological Connection Essay

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 9: Document Generation for Ministry Reports

Learning objective (Bloom's taxonomy)

Students will **evaluate** course content from **TECH-PY-102 — Lesson 9: Document Generation for Ministry Reports** with KJV integration and measurable evidence in the submission.

Task

Evaluate: Explain how **TECH-PY-102 — Lesson 9: Document Generation for Ministry Reports** points to Christ in 400–600 words. Use literal-grammatical-historical method.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Document, Generation

Week 10

Week 10 Assignment — Teaching Prep

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 10: Integrating AI APIs with Human Review Gates

Learning objective (Bloom's taxonomy)

Students will **design** course content from **TECH-PY-102 — Lesson 10: Integrating AI APIs with Human Review Gates** with KJV integration and measurable evidence in the submission.

Task

Design: Prepare a 5-minute teaching outline for **TECH-PY-102 — Lesson 10: Integrating AI APIs with Human Review Gates** suitable for a small group or homeschool lesson.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Integrating, Human

Week 11

Week 11 Assignment — Integration & Review

Course: TECH-PY-102 · Python for Automation & Data Stewardship

Week focus: TECH-PY-102 — Lesson 12: Capstone: Automation Pipeline with Audit Log

Learning objective (Bloom's taxonomy)

Students will **synthesize** course content from **TECH-PY-102 — Lesson 12: Capstone: Automation Pipeline with Audit Log** with KJV integration and measurable evidence in the submission.

Task

Synthesize: Synthesize the top five themes from Python for Automation & Data Stewardship. 600 words, minimum six KJV citations, one paragraph on personal growth.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Capstone, Automation

Week 12

Learning objective (Bloom's taxonomy)

Students will **create** an original ministry artifact synthesizing Python for Automation & Data Stewardship with KJV fidelity and scholarship-gallery quality.

Creative Ministry Project — TECH-PY-102

Course: Python for Automation & Data Stewardship

Code: TECH-PY-102

Overview

Complete an original **Creative Ministry Project** demonstrating what you learned in this course. Select one project type when submitting your assignment. Approved work may appear in the [Scholarship Gallery](https://twicebornministry.com/bible-school/scholarships/) so supporters can **donate toward student scholarships** — you retain credit and ownership of your work.

> This is ministry education, not a sale of intellectual property. Donations fund scholarships.

Project types

Requirements

Original work — cite all Scripture in KJV; footnote other sources.

Course connection — explicitly tie your project to at least two module themes from TECH-PY-102.

Ministry focus — aim to edify believers or reach seekers with the gospel.

Upload — submit via the **Creative Ministry Project** assignment at the end of the course; select your project type in the form.

Length guides:

- Written: 800–1500 words
- Audio/Video: see durations above
- Photography: 1–3 images + caption
- Application: working prototype + 300-word user guide

Grading rubric (100 points)

Pass: 70%

Scholarship gallery

If your project is approved, it may be listed at /bible-school/scholarships/ with a **Support this student** donation button. Supporters give toward the scholarship fund for your project type — not to purchase your content.

Prayer

> *"Let the words of my mouth, and the meditation of my heart, be acceptable in thy sight, O LORD, my strength, and my redeemer."* — Psalm 19:14 (KJV)

Grading

Grading mode: Manual review (creative upload).

Pass: 70%

Rubric (100 points)

Creative Ministry Project

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