**900102-000-00-KM-05, REST API and Modularization, NQF Level 4, Credits 2**

**Summative Assessment**

**Module Five (5`)**

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| **Module Code** | 900102-000-00-KM-05 |
| **NQF Level** | 4 |
| **Credits** | 2 |
| **Skills Programme ID Number** | SP- 220329 |
| **Curriculum Title** | Java Programmer |
| **Curriculum Code** | 900102-000-00-00 |

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| **Name** |  |
| **Contact Address** |  |
| **Telephone (H)** |  |
| **Telephone (W)** |  |
| **Facsimile** |  |
| **Cellular** |  |
| **E-mail** |  |

**Note to the learner**

This Learner Guide provides a comprehensive overview of the module. It is designed to improve the skills and knowledge of learners, and thus enabling them to effectively and efficiently complete specific tasks.

**Purpose of the Module**

The main focus of the learning in this knowledge module is to build an understanding of the functionalities of REST API and modularization and when to use them.

The learning will enable learners to demonstrate an understanding of:

* KM-05-KT01: REST API (Application Programming Interface) for Java 50%
* KM-05-KT02: Java Modularization 50%

**Provider Accreditation Requirements for the Knowledge Module**

**Physical Requirements:**

* The provider must have lesson plans and structured learning material or provide learners with access to structured learning material that addresses all the topics in all the knowledge modules as well as the applied knowledge in the application.
* QCTO/ MICT SETA requirements

**Human Resource Requirements:**

* Qualification of lecturer (SME):
* NQF 5 qualified in industry recognised qualifications with 1 year experience in the IT industry o Cybersecurity vendor certification
* Assessors and moderators: accredited by the MICT SETA

**Legal Requirements:**

* Legal (product) licences to use the software for learning and training
* OHS compliance certificate

**Exemptions**

* RPL based

**Venue, Date and Time:**

Consult your facilitator should there be any changes to the venue, date and/or time.Refer to your timetable.

**Assessments**

**Integrated Formative Assessment:** The skills development provider will use the curriculum to guide them on the stipulated internal assessment criteria and weighting. They will also apply the scope of practical skills and applied knowledge as stipulated by the internal assessment criteria. This formative assessment leads to entrance into the integrated external summative assessment.

**Integrated Summative Assessment**: An external integrated summative assessment conducted through the relevant QCTO Assessment Quality Partner is required to issue this qualification. The external integrated summative assessment will focus on the exit level outcomes and associated assessment criteria.

**Skills Programme Purpose**

A Java Programmer will be able to implement solutions to solve real-life problems in an efficient manner, applying a knowledge and understanding of the principles of programming with Java and applicable tools. Tasks that the learner will be able to know, do and understand after achievement of the skills programme include:

* Create well-written and readable Java programs, using a disciplined coding style, including documentation and indentation standards.
* Use Git functionalities for working collaboratively in a team and execute version control.

**Skills Programme Rationale**

Realising the importance and future impact of the Fourth Industrial Revolution (4IR) on the economy of South Africa and its competitiveness, the Minister of Communications gazetted the Presidential Commission on the Fourth Industrial Revolution (PC4IR) on 9 April 2019. By March 2020 this Commission delivered a report with wide ranging recommendations for Human Capital Development that will drive the 4IR forward. It clearly indicated the speed at which companies will have to invest in big data analysis, web-enabled market investment and the use of cloud computing and machine learning.

Software development is central to these initiatives. Software developers are the creative minds behind computer programs. Some develop the applications that allow people to do specific tasks on a computer or another device. Others develop the underlying systems that run the devices or that control networks. The software developer is the important cog in designing advanced computerised technologies. South Africa has a scarcity of software developers and there is a clear need for a qualification focusing specifically on the training and education of software developers.

**Entry Requirements**

Grade 11 with Maths Lit and English.

Access to equipment, internet connectivity and how to work remotely

**EXIT LEVEL OUTCOMES**

**Exit Level Outcomes (ELO) 1**

Describe the basics of Java Programming

Associated Assessment Criteria (AACs)

* The fundamentals of the Java programming language are explained.
* The basic concepts and methods of object-oriented programming and object-oriented design are described.
* The development life-cycle as a means of creating applications is described.

**Exit Level Outcomes (ELO) 2**

Programme effectively using Java frameworks and functionalities

Associated Assessment Criteria (AACs)

* Java syntax is demonstrated, using the Java API.
* Well-written and readable Java programs are created, using a disciplined coding style, including documentation and indentation standards.
* Problems with application development are addressed by troubleshooting.

**Exit Level Outcomes (ELO) 3**

Work collaboratively in a team using GitHub platform

Associated Assessment Criteria (AACs)

* An ability to work with GitHub is demonstrated.
* Working in a team collaboratively is achieved by using GitHub.
* Version control is exercised using GitHub. functionalities such as repositories, branches, commits and pull requests

**Session 1:** **KM-05-KT01: REST API (Application Programming Interface) for Java**

1. **IAC0101 Explain the understanding of REST API - 10000 feet overview**

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**Session 2:** **KM-05-KT02 :Java Modularization**

1. **IAC0201 Describe the Java New Features**
2. **Local Variable Type Inference**

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1. **Switch Expression**

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1. **Text Blocks**

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1. **Records**

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