

Part 2: Training Programme Details (AAI)

Section A: Course Details

1	Course Title	Applied Artificial Intelligence
2	Type	Technical
3	Training Methodology	Classroom
4	Skill Area	Artificial Intelligence with Internet-of-Things (IoT) Descriptive Analytics & Real-time Monitoring Machine Learning Image Analytics Natural Language Processing (NLP) Conversational AI - Chatbot Semantic Web
5	Duration	3.0 days / 21 hours
6	Certification	Certificate of Completion
7	Certification Body	N/A
8	Course Overview	<p>As AI continues to transform the very fabric of the world we inhabit, it is vital that tech specialists comprehend AI and have the skills necessary to create AI-based applications and solutions. As such, this course aims to provide you with an overview of the principles & approaches of AI.</p> <p>Included in this course are machine learning, deep learning, natural language processing, conversation AI, semantic web and combining AI with Internet of Things. Through this program, you will be able to obtain a strong understanding of AI, its applications, use cases and the ability to apply AI-based tools to your solutions. This course will equip you with the knowledge needed to enter the technology industry as well as improve your current skill set necessary to furthering your career.</p>
9	Prerequisites	Diploma / Degree or Equivalent
10	Course Objective	Upon completion of this course, participants will be able to obtain a strong understanding of AI, its applications, use cases and the ability to apply AI-based tools to your solutions. This course will equip the participants with the knowledge in machine learning, deep learning, natural language processing, conversation AI, semantic web and combining AI with Internet of Things, which needed to enter the technology industry as well as improve participants' current skill set necessary to furthering your career.

11	Learning Outcome	By the end of the training, participants will be able to develop a deep and profound understanding of machine learning, deep learning, natural language processing, conversation AI, semantic web and combining AI with Internet of Things, and be able to develop AI applications.
12	Course Content	<p>Day 1</p> <ul style="list-style-type: none"> • Demystifying Artificial Intelligence (AI) • When AI meets Internet of Things (IoT) • Raspberry Pi: Temperature and Humidity Sensor • Descriptive Analytics & Real-time Monitoring Through Dashboard <p>Day 2</p> <ul style="list-style-type: none"> • Machine Learning Basics • Advanced Machine Learning • Image Analytics <p>Day 3</p> <ul style="list-style-type: none"> • Natural Language Processing (NLP) • Deeper Application of NLP • Conversational AI - Chatbot (GIANT) • Semantic Web
13	Learning Activities	Lecture, Practical Exercise, Case Studies, Learning Activities, Video Presentation, Training
14	Target Group	This course is for anyone interested in AI, Deep Learning, Chatbot, Image Analytics or IoT in AI. Participants should preferably have a basic understanding of mathematics and some experiences in any programming language.

Detailed Daily Training Schedule (Course Content / Hours)

No.	Content/Activity	Objectives	Outcome	Hours
1	Day1 [9am-11am] - Demystifying Artificial Intelligence	This section covers Demystifying Artificial Intelligence	After this section, participants are able to understand Demystifying Artificial Intelligence	2.0
2	Day1 [11.15am-12.45pm] - AI with Internet of Things (IoT)	This section covers AI with Internet of Things	After this section, participants are able to understand AI with Internet of Things	1.5

3	Day1 [1.45pm-3.45pm] - Raspberry Pi: Temperature and Humidity Sensor	This section covers Raspberry Pi to monitor Temperature and Humidity	After this section, participants are able to perform Temperature and Humidity monitoring using Raspberry Pi	2.0
4	Day1 [4pm-5.30pm] - Descriptive Analytics & Real-time Monitoring Through Dashboard	This section covers Descriptive Analytics & Real-time Monitoring Through Dashboard	After this section, participants are able to perform Descriptive Analytics & Real-time Monitoring Through Dashboard	1.5
5	Day2 [9am-11am] - Machine Learning Basics	This section covers Machine Learning Basics	After this section, participants are able to understand Machine Learning Basics	2.0
6	Day2 [11.15am-12.45pm] - Advanced Machine Learning	This section covers Advanced Machine Learning	After this section, participants are able to understand Advanced Machine Learning	1.5
7	Day2 [1.45pm-3.45pm] - Image Analytics	This section covers Image Analytics	After this section, participants are able to understand Image Analytics	2.0
8	Day2 [4pm-5.30pm] - Image Analytics (continue)	This section covers Image Analytics	After this section, participants are able to perform Image Analytics	1.5
9	Day3 [9am-11am] - Natural Language Processing (NLP)	This section covers Natural Language Processing (NLP)	After this section, participants are able to understand Natural Language Processing (NLP)	2.0
10	Day3 [11.15am-12.45pm] - Deeper Application of NLP	This section covers Deeper Application of NLP	After this section, participants are able to develop Deeper Application of NLP	1.5
11	Day3 [1.45pm-3.45pm] - Conversational AI - Chatbot	This section covers Conversational AI - Chatbot	After this section, participants are able to	2.0

			develop Conversational AI - Chatbot	
12	Day3 [4pm-5.30pm] - Semantic Web	This section covers Semantic Web	After this section, participants are able to understand Semantic Web	1.5