Deputy of training

Plan and curriculums office

Competency Training standard

Title

Essentials of Activity-Based Intelligence (ABI)

Occupational group

Information Technology

International code

2529-53-102-1

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Revision Process:

- Scientific content
- According to market
- Equipment
- Tools

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Definitions:

Job standard:

The characteristics ' required competencies and abilities for Efficient Performance in work environment is called "the Job standard", and sometimes "The Occupational standard"

Training standard:

The Training Map for achieving the Job's subset Competencies.

Job title:

Is a set of Tasks and Abilities which is expected from an employed person in the defined level

Job description:

A statement covering the most important elements of a job, namely the position or title of the job, the duties, job's relation with other jobs in a occupational field, the responsibilities, workplace conditions and required performance standards.

Course duration:

The minimum of time which is required to achieve the training objects.

Admission requirements:

The minimum of competencies and abilities which are obligatory for a potential admission.

Evaluation:

The process of collecting evidence and judgment about wetter a competency is achieved or not. Include: written examination, practical examination

Required Qualifications for Trainers**:**

The minimum of Trainer's technical and vocational abilities which the trainer is required to have.

Competency:

The ability of efficient performing a duty in a variety of workplaces conditions

Knowledge:

The minimum set of facts and mental capacities which is necessary for achieving a competency. This can include science, (Mathematics, physics, chemistry or biology), technology or technical.

Skill:

The minimum coordination between mind and body for achieving an ability or competency. It normally applied to practical skills.

Attitude:

A set of emotional behaviors required for achieving a competency and can have non-technical skills and occupational ethics.

Safety:

The cases which doing or not doing something can cause harm or accident

Environmental Consideration:

A set of consideration about the act which should be done to minimize the environmental damage or pollution.

Competency Title:
Essentials of Activity-Based Intelligence (ABI)

Competency Description:

ABI is a new methodology for technology-enabled problem solving developed by the intelligence community for real-time integration of large, diverse disparate data (Big Data) streams. ABI emphasizes the importance of spatial temporal filtering for disambiguation among entities, activities, and locations of interest. Additionally, ABI is a Multiple Intelligence Sources (Multi-INT) approach to activity and transactional data analysis used to resolve unknowns [unknowns], develop object and network knowledge, and drive collection.

- Communicate the concepts of ABI
- Decompose an intelligence or defense mission into the four pillars of ABI
- Identify suitable ABI applications and apply ABI concepts
- Assess the value of ABI over other contemporary data mining and analysis methods

Admission Requirements:

minimum degree of education: Computer or IT related Bachelor

minimum physical and mental ability:-

prerequisite skills:-

Course duration:

Course duration : 30 hours

 -theoretical: 10 hours

-practical: 20 hours

-apprenticeship:… hours

-project:… hours

Course Evaluation :(%)

Written:25%

Practical:65%

Work ethics:10%

IRANTVTO Evaluation :(%)

Written Examination:25%

Practical Examination:65%

Ethics:10%

Computer or IT related Bachelor with 2 years experience

Competency training standard

Tasks

`	Title
1	**Introduction to ABI**
2	**How does ABI differ from the existing paradigms for analysis**
3	**The History of ABI** **Why ABI was developed**
4	**Evolution and growth over time**
5	**Data Preparation Strategies** **Pillar 1: Georeference to Discover**
6	**Pillar 2: Integrate Before Exploit**
7	**Data Analysis Principles** **Pillar 3: Sequence Neutrality**
8	**Pillar 4: Data Neutrality**
9	**The Future of ABI** **An Enabler of Analytic Modernization**

Training standard

Contents analysis form

Title:	time			
Introduction to ABI	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: • What is ABI? • Why are you here? • What is the value proposition for ABI?	Determined by the instructor			According to the trainer
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

Title: How does ABI differ from the existing paradigms for analysis	time			
	theoretical	practical	total	
	Determined by the instructor			

Knowledge ,skill ,attitude ,safety, Environmental Consideration		Equipments ,tools, materials ,books
Knowledge and Skill: • Intelligence and defense • Big Data	Determined by the instructor	According to the trainer
Attitude: Speed and accuracy in doing the right thing		
Health & Safety: Compliance with safety protection in the workplace		
Environmental Consideration: Compliance with environmental protection		

Training standard

Contents analysis form

Title: The History of ABI Why ABI was developed	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: • Discovering the "unknown unknowns" • The need for intelligence in data disparate environments • Understanding Patterns of Life (PoL)	Determined by the instructor			According to the trainer
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

<table>
<tr><td rowspan="2">Title:
Evolution and growth over time</td><td colspan="3">time</td><td rowspan="3"></td></tr>
<tr><td>theoretical</td><td>practical</td><td>total</td></tr>
<tr><td colspan="3">Determined by the instructor</td></tr>
<tr><td colspan="4">Knowledge ,skill ,attitude ,safety, Environmental Consideration</td><td>Equipments ,tools, materials ,books</td></tr>
<tr><td>Knowledge and Skill:
The co-evolution of technology and analytics
From grass-roots to formalized tradecraft and methodologies</td><td colspan="3">Determined by the instructor

</td><td rowspan="4">According to the trainer</td></tr>
<tr><td colspan="4">Attitude:
Speed and accuracy in doing the right thing

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<tr><td colspan="4">Health & Safety:
Compliance with safety protection in the workplace

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<tr><td colspan="4">Environmental Consideration:
Compliance with environmental protection
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Training standard

Contents analysis form

Title: Data Preparation Strategies Pillar 1: Georeference to Discover	time			
	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: • Enabling data discovery • Foundation for location-driven exploitation • Strategies for managing and structuring your data	Determined by the instructor			According to the trainer
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

Title:	time			
Pillar 2: Integrate Before Exploit	theoretical	practical	total	
	Determined by the instructor			
Knowledge ,skill ,attitude ,safety, Environmental Consideration				Equipments ,tools, materials ,books
Knowledge and Skill: • Understanding your data • Foundation for non-linear analysis • Strategies for focusing exploitation	Determined by the instructor			According to the trainer
Attitude: Speed and accuracy in doing the right thing				
Health & Safety: Compliance with safety protection in the workplace				
Environmental Consideration: Compliance with environmental protection				

Training standard

Contents analysis form

<table>
<tr>
<td rowspan="2">Title:
Data Analysis Principles
Pillar 3: Sequence Neutrality</td>
<td colspan="3">time</td>
<td rowspan="2"></td>
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<tr>
<td>theoretical</td>
<td>practical</td>
<td>total</td>
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<td colspan="3">Determined by the instructor</td>
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<td colspan="4">Knowledge ,skill ,attitude ,safety, Environmental Consideration</td>
<td>Equipments ,tools, materials ,books</td>
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<td rowspan="5">Knowledge and Skill:
Data-driven discovery
Strategies for forensic data analysis</td>
<td colspan="3">Determined by the instructor</td>
<td rowspan="9">According to the trainer</td>
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<td colspan="4">Attitude:
Speed and accuracy in doing the right thing</td>
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<td colspan="4">Health & Safety:
Compliance with safety protection in the workplace</td>
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<tr>
<td colspan="4">Environmental Consideration:
Compliance with environmental protection</td>
</tr>
</table>

Training standard

Contents analysis form

<table>
<tr><td rowspan="2">Title:
Pillar 4: Data Neutrality</td><td colspan="3">time</td><td rowspan="2"></td></tr>
<tr><td>theoretical</td><td>practical</td><td>total</td></tr>
<tr><td></td><td colspan="3">Determined by the instructor</td><td></td></tr>
<tr><td colspan="4">Knowledge ,skill ,attitude ,safety, Environmental Consideration</td><td>Equipments ,tools, materials ,books</td></tr>
<tr><td>Knowledge and Skill:
• Harnessing data diversity
• Strategies for geotemporal correlation</td><td colspan="3">Determined by the instructor

</td><td rowspan="4">According to the trainer</td></tr>
<tr><td>Attitude:
Speed and accuracy in doing the right thing</td><td colspan="3"></td></tr>
<tr><td>Health & Safety:
Compliance with safety protection in the workplace</td><td colspan="3"></td></tr>
<tr><td>Environmental Consideration:
Compliance with environmental protection</td><td colspan="3"></td></tr>
</table>

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Contents analysis form

<table>
<tr><td rowspan="3">Title:
The Future of ABI
An Enabler of Analytic
Modernization</td><td colspan="3">time</td><td rowspan="3"></td></tr>
<tr><td>theoretical</td><td>practical</td><td>total</td></tr>
<tr><td colspan="3">Determined by the instructor</td></tr>
<tr><td colspan="4">Knowledge ,skill ,attitude ,safety, Environmental Consideration</td><td>Equipments ,tools, materials ,books</td></tr>
<tr><td rowspan="2">Knowledge and Skill:
How you can apply this in your workflow
Technology trends
Evolution of methodology and tradecraft</td><td colspan="3">Determined by the instructor</td><td rowspan="5">According to the trainer</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td colspan="4">Attitude:
Speed and accuracy in doing the right thing</td></tr>
<tr><td colspan="4">Health & Safety:
Compliance with safety protection in the workplace</td></tr>
<tr><td colspan="4">Environmental Consideration:
Compliance with environmental protection</td></tr>
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