



Deputy of training Plan and curriculums office

Competency Training standard

Title

Microsoft Excel2016

Occupational group

INFORMATION TECHNOLOGY (IT)

Trainin International code ization

2519-53-102-1

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Revision Process: - Scientific content - According to market - Equipment Lechnical and Vocational

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8	11	annng	z Org	zani2	ation	
9						

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:

Microsoft Excel2016

Competency Description:

Microsoft Excel is a spreadsheet developed by Microsoft for Windows, Mac OS X, and iOS. It features calculation, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications. It has been a very widely applied spreadsheet for these platforms, especially since version 5 in 1993, and it has replaced Lotus 1-2-3 as the industry standard for spreadsheets

Admission Requirements:

minimum degree of education: Post first year of high school

minimum physical and mental ability:-

Prerequisite skills:

Course duration:

Course duration: 60 hours

-Theoretical :20 Hours

-Practical :40 Hours

-Apprenticeship:... Hours

-Project:... Hours

Evaluation :(%)

Iran Technical and Vocational Training Organization

IRANTVTO Evaluation :(%)

Written Examination:25%

Practical Examination:65%

Ethics:10%

Required Qualifications for Trainers:

Computer engineer with 3 years experience

Competency Training Standard

Competencies

``	Title
1	Creating a Microsoft Excel Workbook
2	The Ribbon
3	The Backstage View (The File Menu)
4	The Quick Access Toolbar
5	Entering Data in Microsoft Excel Worksheets
6	Formatting Microsoft Excel Worksheets
7	Using Formulas in Microsoft Excel
8	Working with Rows and Columns
9	Advanced Formulas
10	Working with Lists
11	Working with Illustrations
12	Visualizing Your Data
13	Working with Tables
14	Advanced Formatting
15	Editing Worksheets
16	Finalizing Microsoft Excel Worksheets
17	Features New in 2016

Iran Technical and Vocational Training Organization

		time		
Title:	theoretical	practical	total	
Creating a Microsoft Excel Workbook	Determined	by the inst	ructor	
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental Conside	eration			,tools, materials
Vnowladge and Skille	Determined	by the inst	ructor	,books
Knowledge and Skill:Starting Microsoft Excel	Determinee			From
				Microsoft
Creating a Workbook				
Saving a Workbook				
• The Status Bar				
Adding and Deleting Worksheets				
Copying and Moving Worksheets				
Changing the Order of Worksheets				
Splitting the Worksheet Window				
Closing a Workbook				
Attitude: Speed and accuracy in doing the right thing	nd I	, OC	at	ional
Training Org Health & Safety:	zani	zat	io	n
, .				
Compliance with safety protection in the workplace				
Environmental Consideration:				
Compliance with environmental protection				

	time			
Title: The Ribbon	theoretical	practical	total	
	Determined	by the	I	
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From microsoft
• Tabs	instructor			
• Groups				
·				
Commands				
Attitude:				
Speed and accuracy in doing the right thing				
Health & Safety:				
Compliance with safety protection in the workplace	ati	ional		
Environmental Consideration:	7			

time Title: theoretical practical total The Backstage View (The File Menu) Determined by the instructor Equipments Knowledge, skill, attitude, safety, Environmental Consideration ,tools, materials .books Knowledge and Skill: Determined by the From microsoft instructor Introduction to the Backstage View • Opening a Workbook • New Workbooks and Excel Templates Printing Worksheets Adding Your Name to Microsoft Excel Managing Workbook Versions Attitude: Speed and accuracy in doing the right thing Health & Safety: Technical and Focat onal Compliance with safety protection in the workplace Environmental Consideration: Compliance with environmental protection

Training standard

Contents analysis form

T:41	time			
Title: The Quick Access Toolbar	theoretical	practical	total	
	Determined	by the		
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From microsoft
Adding Common Commands	instructor			
 Adding Additional Commands with the Customize Dialog Box 				
Adding Ribbon Commands or Groups				
• Placement				
Attitude:				
Speed and accuracy in doing the right thing				
Health & Safety:				
Compliance with safety protection in the workplace	and]	l'oc	ati	ional
Environmental Consideration:	gan	izat	ioi	1
Compliance with environmental protection				
- •				

	time	
Title: Entoring Data in Microsoft Excel	theoretical practical total	
Entering Data in Microsoft Excel Worksheets	Determined by the	
	instructor	
		Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	Consideration	,tools, materials
	Determined has the	,books
Knowledge and Skill:	Determined by the	From microsoft
• Entering Text	instructor	-
Expand Data across Columns		_
Adding and Deleting Cells		
Adding an Outline		
Adding a Hyperlink		
Add WordArt to a Worksheet		
Using AutoComplete		
Entering Numbers and Dates		
• Using the Fill Handle	and L'a at	: T
Attitude: CIT I CCITICCIT	ana Focai	ional
Speed and accuracy in doing the right thing	• ,•	
Training Oi	rganizatio	n
Health & Safety:		
Compliance with safety protection in the workplace	e	
Environmental Consideration:		
Compliance with environmental protection		

Training standard

Contents analysis form

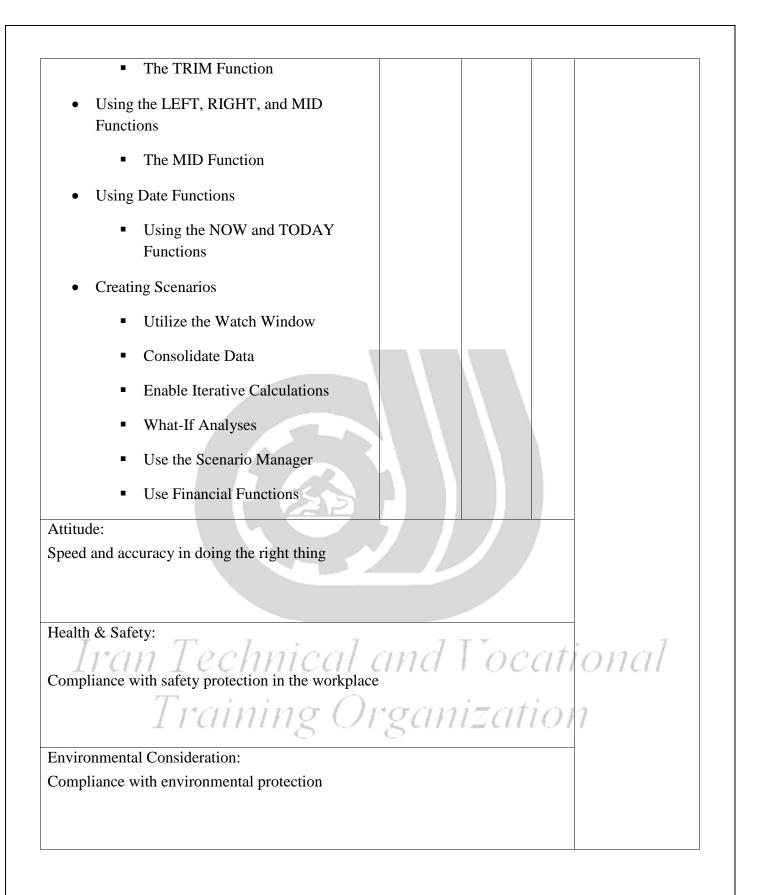
	time		
Title:	theoretical practical	total	
Formatting Microsoft Excel Worksheets	Determined by the		
	instructor		
			Equipments
Knowledge ,skill ,attitude ,safety, Environmental Co	onsideration		,tools, materials
			,books
Knowledge and Skill:	Determined by the		From microsoft
Selecting Ranges of Cells	instructor		
Hiding Worksheets			
Adding Color to Worksheet Tabs			
Adding Themes to Workbooks			
Adding a Watermark			
The Font Group	9 /		
The Alignment Group			
• The Number Group			
Attitude:			
Speed and accuracy in doing the right thing	and Foc	ati	ional
Health & Safety:	en anni - ad	÷	
Compliance with safety protection in the workplace	7		
Environmental Consideration:			
Compliance with environmental protection			

Equipment & Tools & Materials & Resources (books, site, software...) form *Required quantity for each 16 Trainees From: Microsoft Training standard Contents analysis form

	time			
Title:	theoretical	practical	total	
Using Formulas in Microsoft Excel	Determined	by the		
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials ,books
Knowledge and Skill:	Determined	by the		From microsoft
• Math Operators and the Order of Operations	instructor			
• Entering Formulas				
 AutoSum (and Other Common Auto- Formulas) 				
Copying Formulas and Functions				
 Displaying Formulas 				
• Relative, Absolute, and Mixed Cell References				
Attitude:			7	
Speed and accuracy in doing the right thing				
Health & Safety:				-
Compliance with safety protection in the workplace				_
Environmental Consideration: Compliance with environmental protection	and	l'oc	ati	ional
Training Or	rgan	izat	ioi	7

	time			
Title:	theoretical	practical	total	
Working with Rows and Columns	Determined	by the		
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials ,books
Knowledge and Skill:	Determined	by the		From microsoft
Inserting Rows and Columns	instructor	_		
Deleting Rows and Columns				
Transposing Rows and Columns				
• Setting Row Height and Column Width				
• Hiding and Unhiding Rows and Columns				
Freezing Panes	9			
Attitude:				
Speed and accuracy in doing the right thing				
Health & Safety:	ati	ional		
Compliance with safety protection in the workplace				
Training Or	ioi	7		
Environmental Consideration:	-			
Compliance with environmental protection				

	time	
Title:	theoretical practical total	
Advanced Formulas	Determined by the instructor	
		Equipments
Knowledge ,skill ,attitude ,safety, Environmental Co	onsideration	,tools, materials ,books
Knowledge and Skill:	Determined by the	From microsoft
Using Named Ranges in Formulas	instructor	
 Naming a Single Cell 		
 Naming a Range of Cells 		
 Naming Multiple Single Cells Quickly 		
Using Formulas That Span Multiple Worksheets		
Using the IF Function		
 Using AND/OR Functions 		
 Using the SUMIF, AVERAGEIF, and COUNTIF Functions 	and Vocati	ional
Using the PMT FunctionUsing the LOOKUP Function	ganization	2
• Using the VLOOKUP Function		
• Using the HLOOKUP Function		
• Using the CONCATENATE Function		
• Using the TRANSPOSE Function		
• Using the PROPER, UPPER, and LOWER Functions		
 The UPPER Function 		
 The LOWER function 		



Training standard

Contents analysis form

	time	
Title:	theoretical practical total	
Working with Lists	Determined by the	
	instructor	
		Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration	,tools, materials ,books
Knowledge and Skill:	Determined by the	From microsoft
• Converting a List to a Table	instructor	
Removing Duplicates from a List		
Sorting Data in a List		
• Filtering Data in a List		
Adding Subtotals to a List		
 Grouping and Ungrouping Data in a List 		
Attitude:		
Speed and accuracy in doing the right thing		
Health & Safety:		
Compliance with safety protection in the workplace	. 7	
Environmental Consideration: Compliance with environmental protection	and Vocati	ional
Training Or	rganization	7

Training standard

Contents analysis form

	time						
Title:	theoretical practical total						
Working with Illustrations	Determined by the						
	instructor						
		Equipments					
Knowledge ,skill ,attitude ,safety, Environmental C	Consideration	,tools, materials					
		,books					
Knowledge and Skill:	Determined by the	From microsoft					
Working with Clip Art	instructor						
Using Shapes							
• Using Shapes							
Working with SmartArt							
Attitude:							
Speed and accuracy in doing the right thing							
22							
Health & Safety:							
Compliance with safety protection in the workplace	2						
Environmental Consideration:							
Compliance with environmental protection							
Compliance with environmental protection							
Training Organization							

time				
Title:	theoretical	practical	total	
Visualizing Your Data	Determined	by the		
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From microsoft
Creating a Custom Chart Template	instructor			
Inserting Charts				
Add and Format Objects				
• Insert a Text Box				
Create a Custom Chart Template				
Attitude:	7 1		/	
Speed and accuracy in doing the right thing				
Health & Safety:				
Compliance with safety protection in the workplace	and	l'oc	ati	ional
Training Or	rgan	izat	ioi	7
Environmental Consideration:				
Compliance with environmental protection				

	time			
Title:	theoretical	practical	total	
Working with Tables	Determined by the instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental Co	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From microsoft
• Format Data as a Table	instructor		1	
• Move between Tables and Ranges				
Modify Tables		+		
 Add and Remove Cells within a Table 				
Define Titles				
 Band Rows and Columns 				
 Remove Styles from Tables 				
Attitude:			I	
Speed and accuracy in doing the right thing	and	l'oc	ati	ional
Health & Safety: Training Or	7			
Compliance with safety protection in the workplace				
Environmental Consideration:				
Compliance with environmental protection				

	time			
Title:	theoretical	practical	total	
Advanced Formatting	Determined by the			
	instructor			
				Equipments
Knowledge, skill, attitude, safety, Environmental Co	onsideration			,tools, materials
				,books
Knowledge and Skill:	Determined	by the		From microsoft
Applying Conditional Formatting	instructor		1	
Working with Styles				
 Applying Styles to Tables 				
 Applying Styles to Cells 				
Creating and Modifying Templates				
 Modify a Custom Template 	9 /			
Attitude:				
Speed and accuracy in doing the right thing				
T T 1 · 1	7	T 7		. 7
Health & Safety: Technical and Tocat				onal
Compliance with safety protection in the workplace	7			
Environmental Consideration:				
Compliance with environmental protection				

	time				
Title:	theoretical	practical	total		
Editing Worksheets	Determined	by the			
	instructor				
				Equipments	
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials	
	- · ·			,books	
Knowledge and Skill:	Determined	by the		From microsoft	
• Find	instructor		1		
Find and Replace					
Using the Clipboard					
Managing Comments					
 Adding Comments 					
 Working with Comments 	9 /				
Attitude:					
Speed and accuracy in doing the right thing					
	7			. 7	
Health & Safety: Technical and Focational					
Compliance with safety protection in the workplace					
Environmental Consideration:					
Compliance with environmental protection					

	time			
Title:	theoretical	practical	total	
Finalizing Microsoft Excel Worksheets	Determined by the			
	instructor			
				Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials
Knowledge and Skills	Determined	by the		,books From microsoft
Knowledge and Skill:	Determined instructor	by the		FIOIII IIICIOSOIT
Setting Margins	mstructor			
Setting Page Orientation				
Setting the Print Area				
• Print Scaling (Fit Sheet on One Page)				
• Frint Scaling (Fit Sheet on One Fage)				
Printing Headings on Each				
Page/Repeating Headers and Footers				
Headers and Footers				
Attitude:				
Speed and accuracy in doing the right thing				
Iran Technical	ional			
Health & Safety:				
Compliance with safety protection in the workplace	7			
Environmental Consideration:				
Compliance with environmental protection				

	time			
Title: Features New in 2016	theoretical	practical	total	
reatures new in 2010	Determined	by the		
	instructor			
	• • •			Equipments
Knowledge ,skill ,attitude ,safety, Environmental C	onsideration			,tools, materials ,books
Knowledge and Skill:New Charts	Determined instructor	by the		From microsoft
 Treemap Sunburst Histogram Waterfall Box and Whisker Pareto 				
Attitude:				
Speed and accuracy in doing the right thing				
Health & Safety:				
Compliance with safety protection in the workplace	ional			
Training Or	1			
Environmental Consideration:				
Compliance with environmental protection				