CITREP⁺ Course Mapping Process

Human Capital Development (HCD)

CITREP+

- 1. Objectives
- 2. Workflow
- 3. Vocab
- 4. Skills Framework for ICT Sector (SF for ICT) Course Mapping
- 5. Steps to Obtain Technical Skills and Competencies (TSCs)
- 6. Annex A



CITREP⁺ Objectives

CITREP⁺ Objectives

- To build a strong core of specialised Singaporean ICT professionals with Smart Nation capabilities
- To develop and offer quality infocomm professional development technology courses and professional certifications that impart knowledge and skills in relevant areas



Overview of CITREP+ Workflow Process

Overview of CITREP+ Workflow Process

SF for ICT Course Mapping

Course Endorsement Trainee Enrolment Claim Application



- Focus on <u>content</u> evaluation
- Relevance of the course/certification against Technical Skills and Competencies
- Processing time average 4 to 6 weeks



- Assessment of Course Provider adequacy
- Processing time average 1 to 3 weeks



 Course providers to enroll trainees before commencement of courses/exam



- Provide trainees with required supporting documents
- Trainees to submit claims upon completion



CITREP⁺ Vocab

CITREP+ Vocab

Important "VOCAB"

CAB / CO - Certificate

Awarding Body, Certification Owner,

Curriculum Owner

CP - Course

Entities that deliver the training courses or examinations

Entities issuing qualifications

(certificates or titles)

Provider

ICMS -

SF for ICT –

AO – Administrative Officer

AA - Approving Authority



SF for ICT Course Mapping

SF for ICT Course Mapping



SF for ICT
Course Mapping validity

Up to <u>31 March 2019</u>

SF for ICT Course Mapping - Overview

- ☐ The Skills Framework (SF for ICT)
 - > Skills Framework Roadmap that articulates the competency requirements of key Infocomm professionals.
 - > Identifies various ICT sectors, key job roles and its functions
 - ➤80 Technical Skills and Competencies for 119 industry job roles
- ☐ Facilitate the course mapping process for CITREP+.
 - Leverage on SF for ICT to determine the types of Technical Skills and Competencies required for various infocomm jobs
 - > Develop training strategies for professionals to acquire these skills

Competency Standards – How do they affect Course Providers?

- ☐ Endorsement and Branding
 - ➤ Benchmark for Quality and Standards
 - ➤ Marketing Edge locally and regionally
 - ➤ Recognised by employers
- ☐ Alignment with SF for ICT
 - Facilitate the endorsement process for CITREP+ programme
 - ➤ Courses that are endorsed as being SF for ICT Aligned/Accredited will be featured on IMtalent portal

SF for ICT Course Mapping

Identify which SF for ICT <u>Tracks and</u> <u>Sub-Tracks</u> that best fit your course

(*Please refer to www.imda.gov.sg/CITREP CITREP+ Guides: SF for ICT Navigation Tool for more information)



Select the most relevant job role (s) based on the identified Sub-Track of your course



Course must be mapped to at least 1 Technical Skills and Competency (TSCs) for each SF for ICT job role(s) selected.



All approved new course mapping will be valid <u>till 31</u> March 2019

Supported SF for ICT Skill Areas

 Areas eligible for <u>Courses and Certification</u> support level (Entry Level & Above)

Skill Category: Strategy and Architecture

• All TSCs (Eg, Cyber Risk Management, Data Strategy, etc)

Skill Category: Design

• All TSCs (Eg, Data Design, User Interface Design, etc)

Skill Category: Development and Implementation

 All TSCs (Eg, Analytics and Computational Modeling, Application Development, etc)

Skill Category: Operations and User Support

• All TSCs (Eg, Cyber Forensics, Infrastructure Support, etc)

Skill Category: Sales & Marketing

• Technical Sales and Support

Supported SF for ICT Skill Areas

 Areas eligible for <u>Certification</u> support only (Entry Level & Above)

Skill Category: Stakeholder and Contract Management

• All TSCs (Eg, Contract Management, Stakeholder Management, etc)

Skill Category: Project Management

• All TSCs (Eg, Business Needs Analysis, Programme Management)

SF for ICT Course Mapping - Criteria

Types of Courses and Certification

Certifiable Programme

- Courses that lead to industry-recognised certifications
- Appointment by Certificate Awarding Body (CAB)
- Review on the Certification:
 - Certification Governing Body
 - Body of Knowledge & its currency
 - Certification Approach/Mechanism

Total Duration for Course and Exam Completion

Minimum - 3 days / Maximum – 12 months

SF for ICT Course Mapping - Criteria

Supporting documents to provide

- 1) Detailed **course curriculum and course materials** (incl. training and/or certification roadmap) **4 sets**
- 2) Justification for course mapping Demand for the selected job role & skill area)
- 3) Letter of authorisation from Certificate Awarding Body (if applicable)
- 4) Non-refundable administration fee of \$600 per course, subject to 7% GST (Inclusive of Course Mapping with Endorsement application)
- Please note that SF for ICT Course Mapping is an independent process from CITREP⁺ course endorsement application.
- Courses and certifications that are accepted for mapping will be listed on SF for ICT Portal (www.SF for ICT.sg). The same course/certification has to meet the endorsement criteria if it is submitted for funding support. The course materials used for evaluation will not be returned to CP. The estimated processing duration is about 4-6 weeks from a complete submission.

SF for ICT Mapping Application

Course Mapping Application Submission

- SF for ICT Mapping applications are submitted online via the Infocomm Competency Management System (ICMS):
 - https://eservice.imda.gov.sg/icms
- Please refer to the <u>ICMS Course Mapping and Endorsement User</u>
 <u>Guide</u> for the steps to submit the SF for ICT Mapping application

SF for ICT Course Mapping Application Fee

Payable to "IMDA" upon application

Course Mapping with Endorsement	S\$600 per course application (subject to 7% GST) Total Payable: S\$642
Course Endorsement	S\$350 per course application (subject to 7% GST) Total Payable: S\$374.50

Please note:

For <u>Course Mapping with Endorsement application</u>, there will be <u>no refund if</u> no course endorsement application is submitted.



Steps to Obtain Job Roles and Technical Skills & Competencies (TSCs)

CITREP Webpage (www.imda.gov.sg/citrep)



CITREP Webpage

Application Procedure

All course endorsement and claim applications must be submitted online via the IMDA's Infocomm Competency Management System (ICMS).

Applicants must upload and attach the supporting documents via ICMS during the submission of online applications.

The sponsoring organisations and self-sponsored individuals must have a valid ICMS account to submit a CITREP+ claim. To apply for a new organisation or individual account, please click here.

Self-sponsored applicants must have their SingPass ID and password to access ICMS. To find out more and/or apply for SingPass, please click here.

Sponsoring organisations will require either SingPass ID or CorpPass ID to access ICMS. After December 2017, business entities will have to access ICMS using CorpPass ID. To find out more and/or apply for CorpPass, please click here.

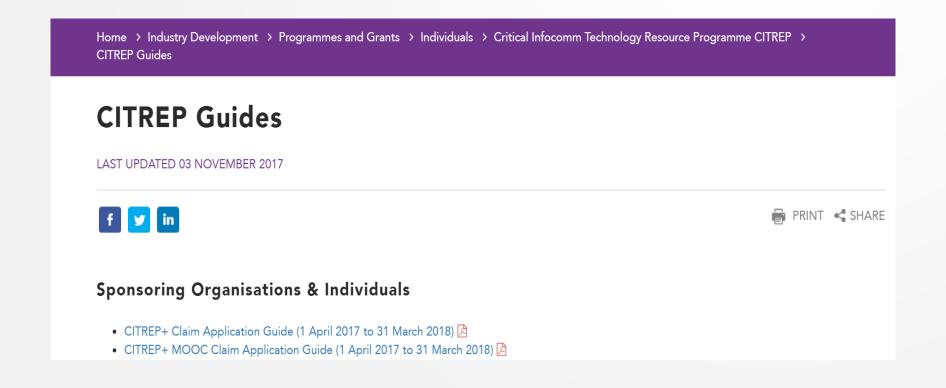
To access ICMS, please click here.

To download CITREP+ guides, please click here.

Action: Select this to access CITREP Guide Page

Trainees

CITREP Guide Page



SF for ICT Course Mapping

Step 1

Identify which SF for ICT <u>Tracks and Sub-Tracks</u> that best fit your course

(*Please refer to www.imda.gov.sg/CITREP CITREP+ Guides: SF for ICT Navigation Tool for more information) **>**

Select the most relevant job role (s) based on the identified Sub-Track of your course



Course must be mapped to at least 1 Technical Skills and Competency (TSCs) for each SF for ICT job role(s) selected.



All approved new course mapping will be valid <u>till 31</u>
<u>March 2019</u>

SF for ICT Framework for CITREP+ Course Mapping (IMTALENT.SG/SFforICT)

With the Skills Framework, individuals are equipped to make informed decisions about career choices, as well as take responsibility for skills upgrading and career planning.



Assess Career Interests



Prepare for Desired Jobs



Find Avenues to Close Skills Gap



Renew, Upgrade and Deepen Skills

- Discover employment opportunities
- Understand career pathways
- Recognise personal attributes required
- Understand skills and competencies required
- Identify relevant training programmes to equip oneself with the required skills and competencies
 - Participate in on-the-job training opportunities provided by companies
- Plan for career development/ transition
- Recognise skills and competencies required for the intended job role
- Identify training programmes to upgrade and deepen skills

Action: Select this to view Tracks and Sub-Tracks

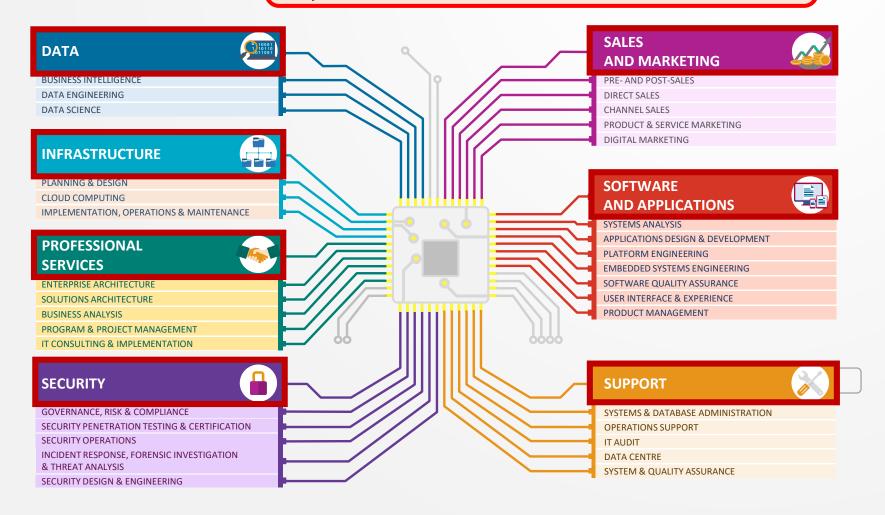
For more information, please visit Skills Framework Portal or navigate the Skills Framework for IC HERE.

Introduction to the Skills Framework for Infocomm Technology (ICT):

SF for ICT Framework for CITREP+ Course INFO-COMMUNICATIONS MEDIA DEVELOPMENT AUTHORITY

Mapping

Action: Identify the <u>track</u> that is most relevant to your course



SF for ICT Course Mapping

Step 2

Identify which SF for ICT <u>Tracks and Sub-Tracks</u> that best fit your course

(*Please refer to www.imda.gov.sg/CITREP CITREP+ Guides: SF for ICT Navigation Tool for more information)



Select the most relevant job role (s) based on the identified Sub-Track of your course

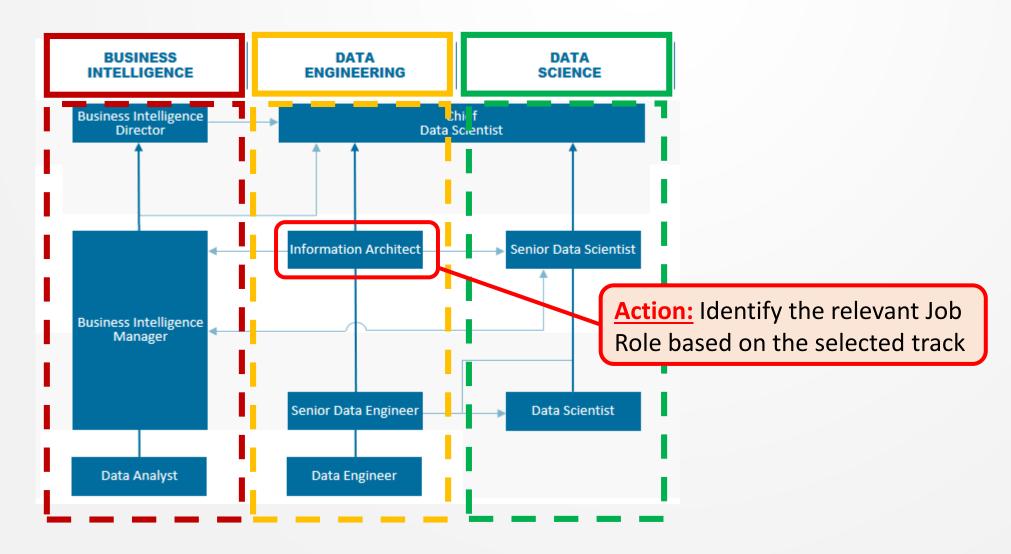


Course must be mapped to at least 1 Technical Skills and Competency (TSCs) for each SF for ICT job role(s) selected.



All approved new course mapping will be valid <u>till 31</u>
<u>March 2019</u>

SF for ICT Framework for CITREP+ Course Mapping



SF for ICT Course Mapping

Identify which SF for ICT <u>Tracks and</u> <u>Sub-Tracks</u> that best fit your course

(*Please refer to www.imda.gov.sg/CITREP CITREP+ Guides: SF for ICT Navigation Tool for more information) **>**

Select the most relevant job role (s) based on the identified Sub-Track of your course

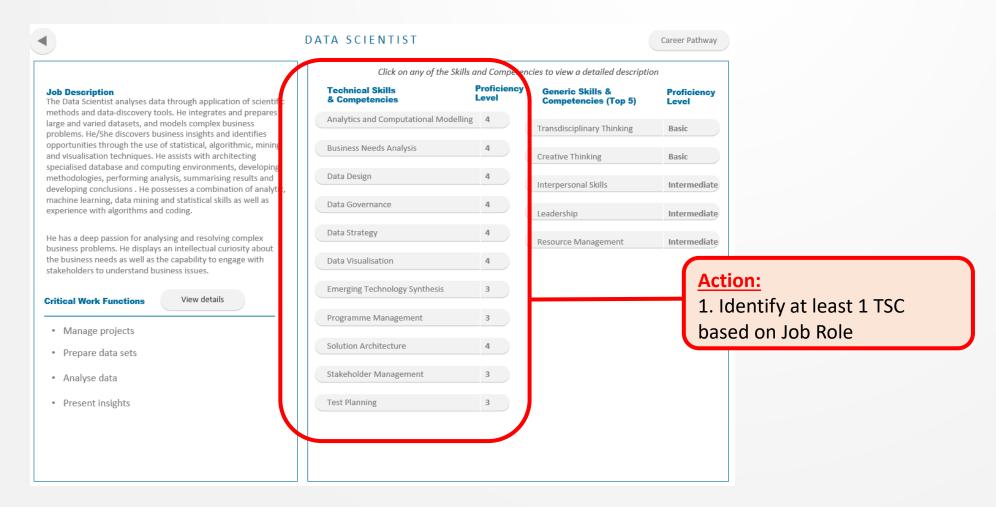
Course must be mapped to at least 1 Technical Skills and Competency (TSCs) for each SF for ICT job role(s) selected.

Step 3



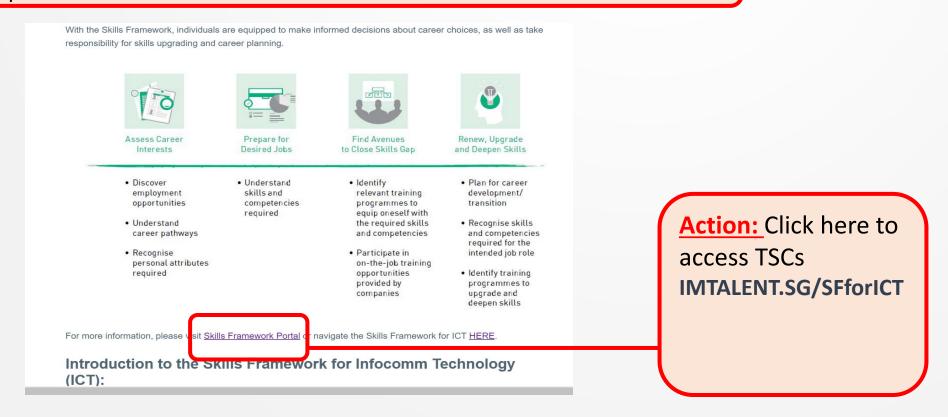
All approved new course mapping will be valid till 31 March 2019

SF for ICT Course Mapping



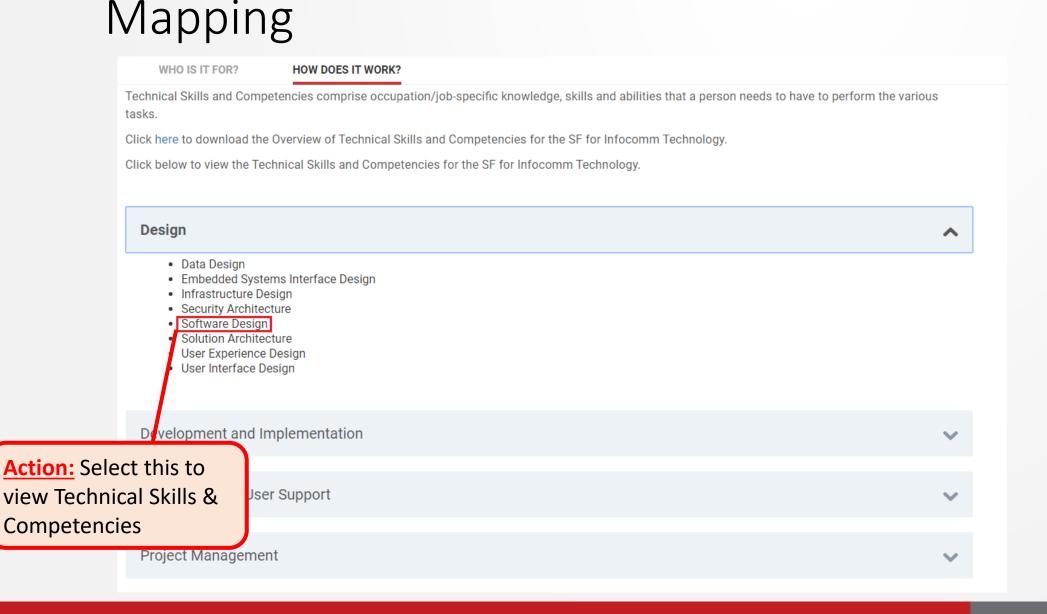
SF for ICT Framework for CITREP+ Course Mapping

<u>Action:</u> Access Skills Framework Portal for detailed TSC proficiency Level description



To obtain a more detailed version of the competency units, please refer to Annex A at the end of the document

SF for ICT Framework for CITREP+ Course DEVELOPMENT AUTHORITY OF SINGAPORE



SF for ICT Course Mapping

- New Application

Alternatively, you may refer to the ICMS navigation guide below to complete your NEW submission:

- ► Login as **CP AO**
- **>** Go to Course/Certification Endorsement
- ➤ Click the square button New Application
- ➤ Select Programme For Submission: Course Mapping
- ➤ Proceed with the necessary info and mapping matrix
- ➤ Submit for Approval the application for CP AA's approval Note: The system will generate a new Ref ID number

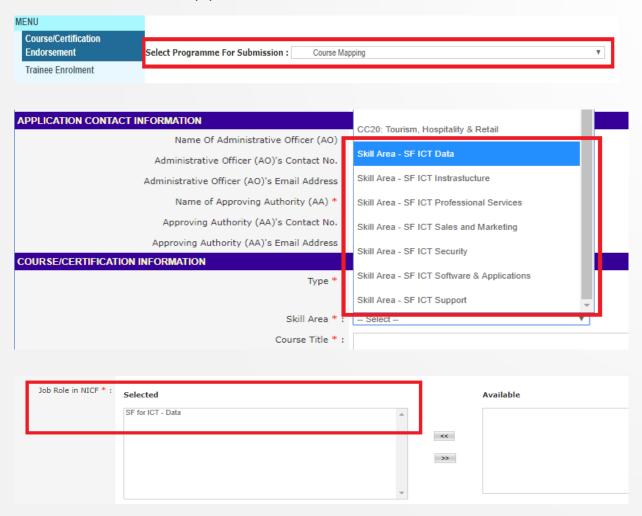
➤ Login as **CP AA**

- **➢ Click on Items Pending for Your Action**
- > Review the application details submitted by CP AO
- Click on **Approve** button to submit for IDA's processing Note: The system will generate the same Ref ID number

Submit SF for ICT Course Mapping via ICMS

Submit/apply
SF for ICT COURSE
MAPPING APPLICATION
IN ICMS

New Application

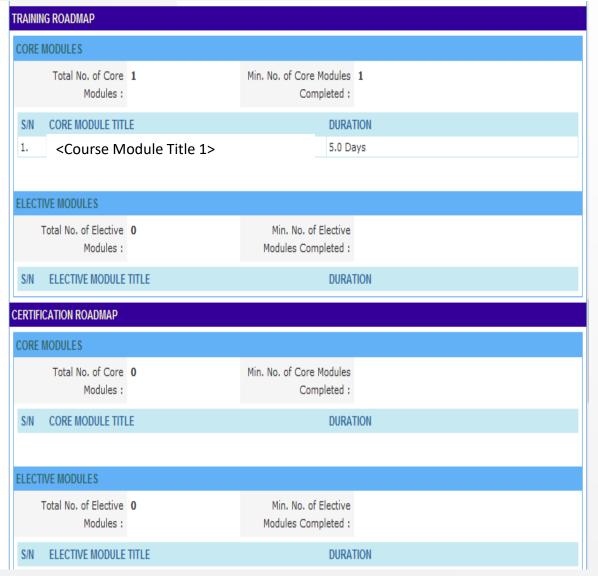




Sample Submission in ICMS:

Select "Course Mapping" as
Programme
Select "SF for ICT" for
respective fields

New Application

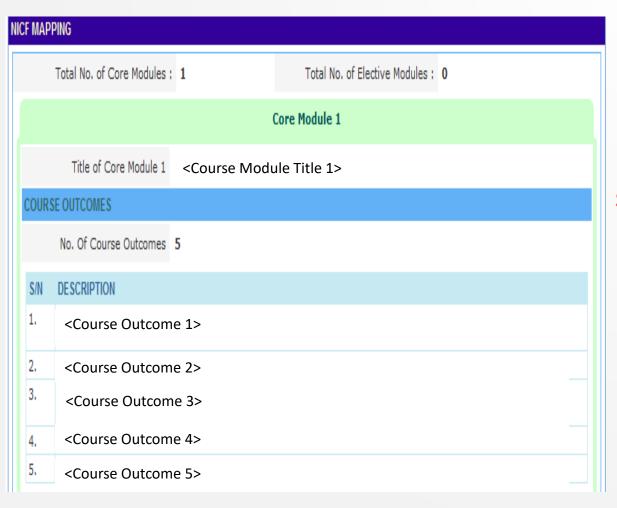


Submit SF for ICT Course Mapping via ICMS

Sample Submission in ICMS:

TRAINING ROAPMAP

New Application



Submit SF for ICT Course Mapping via ICMS

Sample Submission in ICMS:

COURSE OUTCOMES

New Application

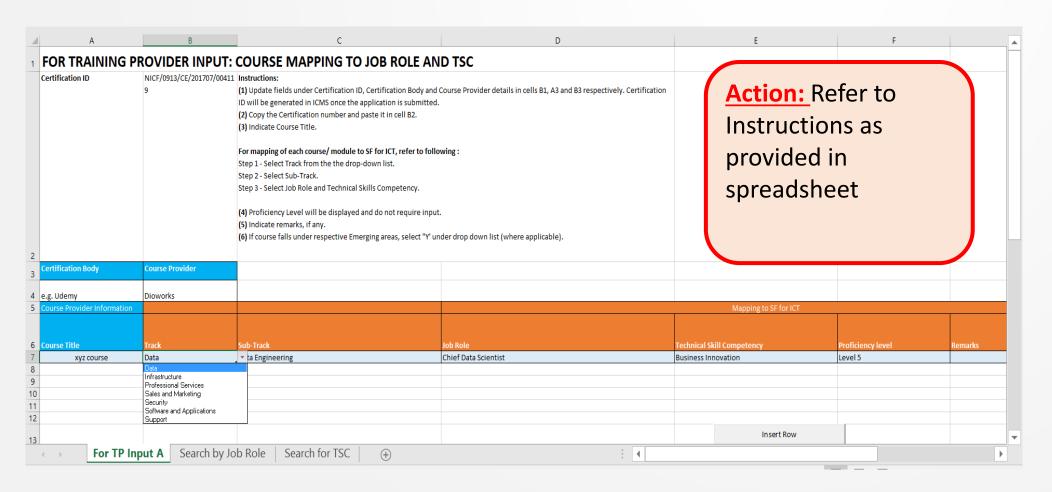
COURSE	OUTCOMES					
		No. Of Course Outcomes	1			
S/N	DESCRIPTION					
1.	Course Outcome1					
PROPOSE	ED COMPETENCY UNITS(CU	U) & COMPETENCY ELEMI	ENTS (CE)/PERFORMA	ANCE STATE	MENTS (PS)	
		No. of Competency Units	1	Go		
CU CODE	ES & CE/PS					
1. SF-ICT-	-01 : Mapping to SF for ICT - Da	ata			Remove	
SF-ICT-01-E1 Mapping to SF for ICT -			- Data			
COURSE N	MAPPING MATRIX Go					
Compete	ency Units & Elements/Pe	erformance Statements				Course Outcomes
	CU Code	CE				1
	SF-ICT-01	SF-ICT-01-E1				✓

Submit SF for ICT Course Mapping via ICMS

Sample Submission in ICMS:

PROPOSED CU & CE/PS Course Mapping Matrix

SF for ICT Mapping Excel Spreadsheet



- SF for ICT Mapping Matrix Word Document
- •Mapping matrix of course details to Technical Skills & Competencies
- •Sent to Expert Panel together with course materials for their Evaluation

				Proficiency	Proficiency Level			Course Outcomes	Reference to Course	Remarks	4
	TSC	TSC Category	Description	Level	Description	Knowledge	Abilities	course outcomes	Materials	Remarks	1
	Analytics and	Development	Develop, select	Level 5	Design advanced	Industry	 Direct data analytics and 				I
	Computational	and	and apply		statistical and	developments and	statistical modelling				ı
Madelline Implementation classistems and		remoutational	trends in analytics,	efforts across the				ı			
					and	algorithms and	organisation				ı
Action: Input description of courses					the	statistical	Make decisions on				ı
Action. Input description of courses					of	modelling	appropriate data analytics				ı
sactions/nortions which man to the				and	• New and	and computational				ı	
sections/portions which map to the					emerging data	methodologies to the				ı	
	TCC-				to	analytics and	problem				ı
respective TSCs.			ns.	modelling tools	Design complex or				ı		
-						and	advanced statistical and				Λ.

It is advisable to include the specific topics/pages of the course materials which map to the relevant TSCs selected.