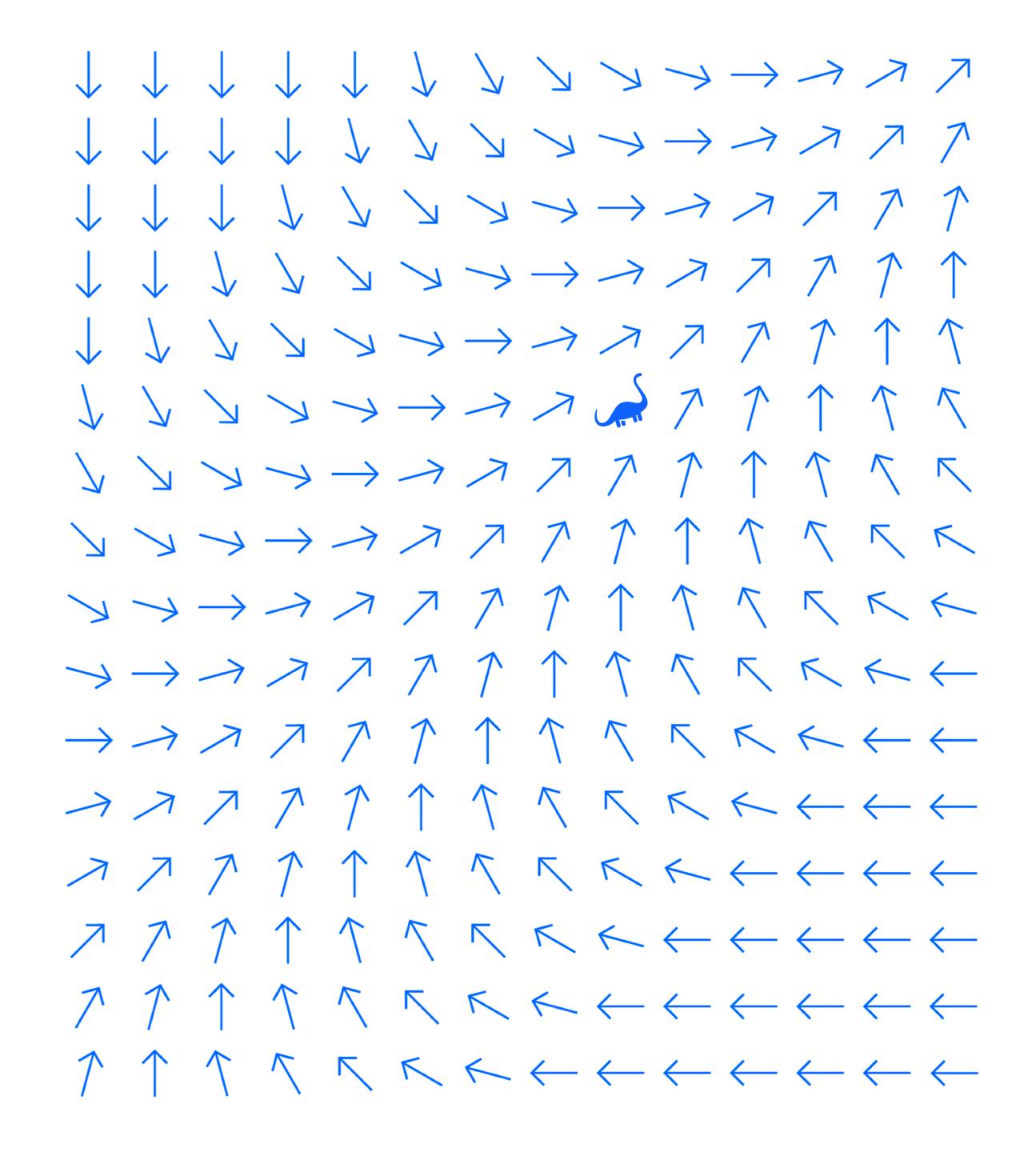
EnergiZ @ IBM DACH



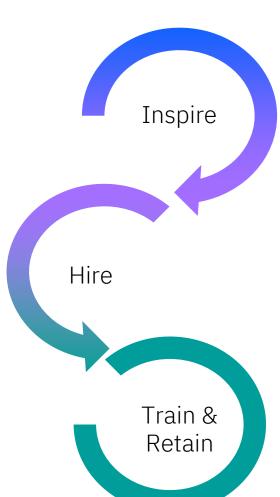
Agenda

- IBM Skills Accelerator Program
- EnergiZ @ IBM DACH

SKILLS: Eliminating the skills gap

Participate in proven programs to meet client talent needs

Build a sustainable workforce



Inspire NextGen talent
Participate in a Z Career Connection
Event

Hire badged talent Recruit at an IBM Z Virtual Career Fair

Build Skills & Retain Talent
Leverage the IBM Z Global Skills
Accelerator Program with 300+ hours
of training and coaching and have new
hires join the New to Z program

Open Standards and Tooling

- **Get more Agile** with enterprise DevOps on IBM Z with industry standard tools such as Git, Jenkins, Artifactory, Kubernetes, Splunk, etc.
- Make AI-driven decisions at scale. With more agile approaches to development, it becomes easier to exploit AI.
- Automate and standardize IT, with a consistent approach across the enterprise

Eliminate/Reduce need for specialized IBM Z skills

- ZOWE Open-source framework for mainframe DevOps teams to securely manage, control, script and develop on IBM Z. Provides a modern interface to interact with z/OS, similar to a cloud platform experience
- IBM Wazi aaS Cloud-native development and test for z/OS applications on the IBM Cloud (VPC)
- Enhance and modernize applications Broaden capabilities of existing COBOL & PL/I with Java. Develop new applications written in Node.js, Python or Go that interoperate with existing applications

Contact us: zskills@us.ibm.com

Explore more: <u>ibm.biz/ztalent</u>

IBM Training: <u>Introduction to Z</u>



IBM Z Global Skills Accelerator – Easy Button

Clients Provide Learners

- Employers hire into a Mainframe Systems Administrator (MSA I) or Mainframe Application Developer (App Dev) roles
- Employers provide mentorship and on the job training

Franklin Provides Program Administration

- Franklin Apprenticeships works with client and learners' managers to:
 - Map out program details
 - Discuss current skill set and course schedule
 - Align the program learning plan
 - Assign success coaches to learners
 - Provides Check-in's and learning support
 - Finalizes successful completion of skills program

IBM Z Mainframe System Administrator, Level 1

IBM Z Mainframe Application Developer

IBM Z Mainframe System Administrator, Level 2

The winning formula for building loyal, skilled talent

- Competency based program
- 300+ hours of learning
- Success Coach for participants and managers
- On the Job training
- Technical mentorship

Program Details

- Skills program is a set designated list of virtual online courses
- Skills journey is typically 1 year, but can be customized to meet your delivery needs
- Courses have digital badges and certificates to earn throughout the journey
- IBM SME technical office hours provided
- Learner receives Certificate of Completion of program

Benefits

- IBM Subject Matter Experts meet weekly with learners to advise and help with technical questions
- Flexibility to accommodate work and training
- Proven success with over 320 hours of training and dependable content wherever participants are located

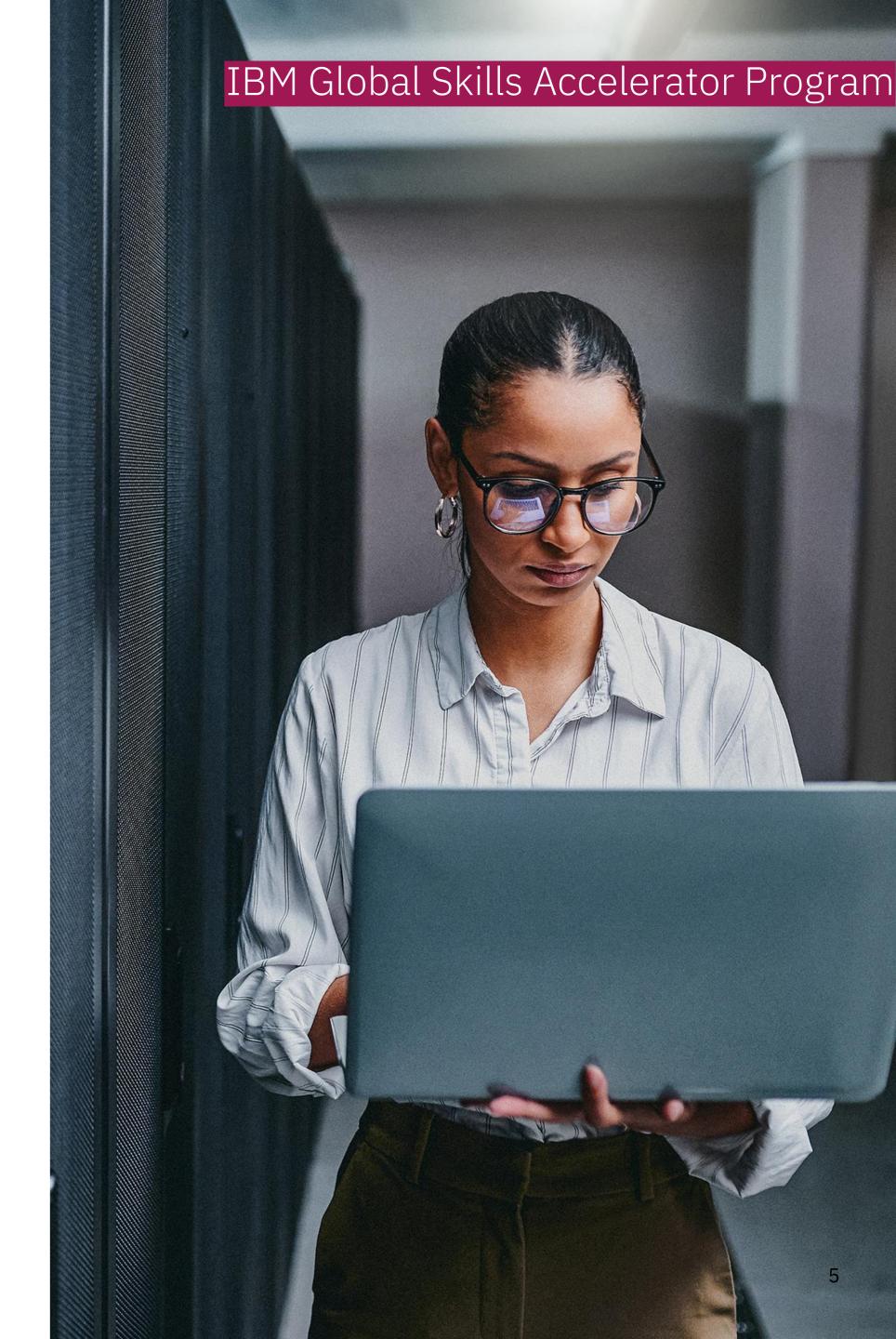


Employer Benefits

- » Appointed Success Coach who will meet weekly with learners to keep them on track and confirm that learners are grasping all concepts
- IBM Subject Matter Experts who will meet weekly with learners to talk through any technical questions and host content labs
- » Flexibility to accommodate work and training with guided learning
- Proven Success with over 320 hours of training and dependable content wherever participants are geographically located

Employer Commitment

- » Recruit, hire, and onboard individuals to participate in the program
- » Assign each learner a technical mentors and provide on the job training for a one-year period
- Enable learners to attend virtual training sessions with subject matter experts and their success coach



IBM Global Skills Accelerator – Registered Learning Frameworks



Mainframe System Administrator Level 1

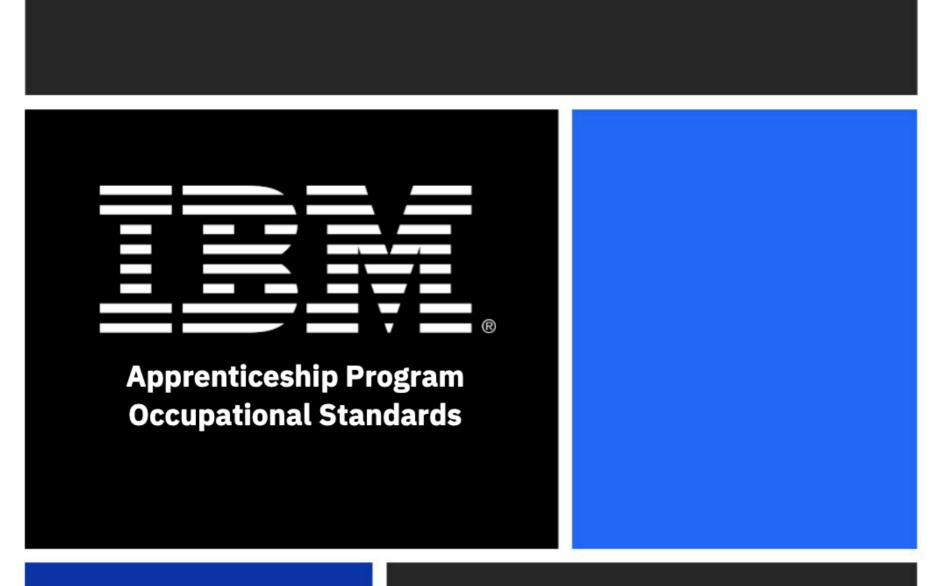


Mainframe Application Developer



Mainframe System Administrator Level 2

Detailed Competency Framework – MSA



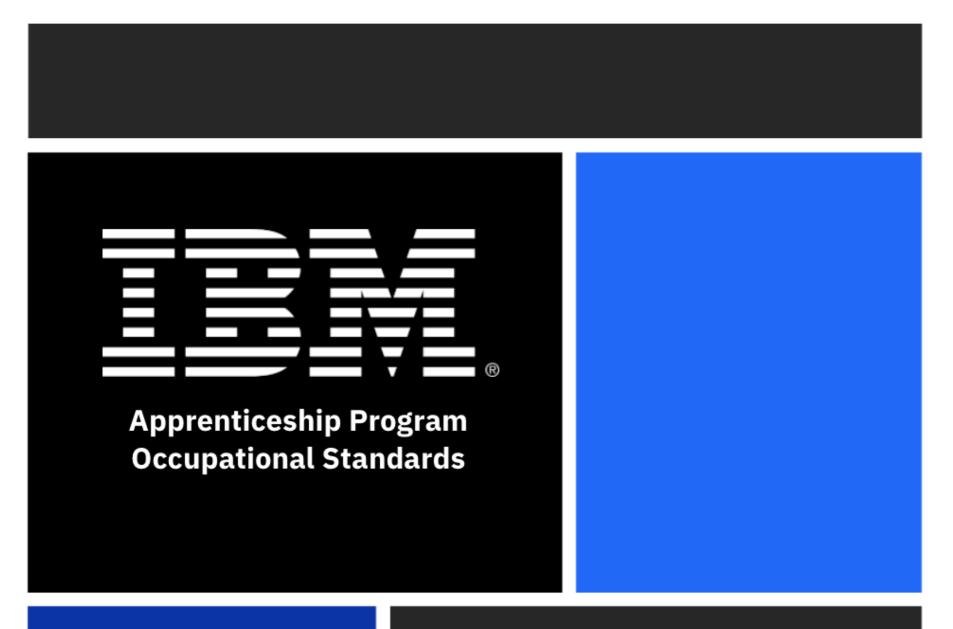
IBM Z System Mainframe Administrator Competency Framework

O*NET CODE: 15-1142.00 (Network and Computer Systems Administrator) Updated on 3/1/23

This document was created by IBM's Apprenticeship Program as an open source standard to help industry accelerate their journey to developing new collar apprenticeship and work-based learning programs.

23.0 Demonstrate basic knowledge of HCD	 Identify and discuss the HCD definition process sequence Demonstrate how the HCD dialogs are used to define a configuration Demonstrate knowledge in how to connect peripheral devices Assist with the connection of peripheral devices when possible 	⊠O ⊠Q&A □P ⊠RA □S ⊠PD ⊠A ⊠MT ⊠EW □RPL	Course: z/OS System Services Structure (ibm.com)
24.0 Demonstrate basic understanding of the use of SMP/E to manage the deployment and lifecycle of mainframe software products	 Use the SMP/E dialogs to install a product and its related service Manage exception SYSMOD data Use primary and secondary data sets as required by SMP/E Analyze output from SMP/E processing and resolve commonly encountered problems Use the REPORT command to determine software dependencies between zones Use the BUILDMCS process to create a function SYSMOD from an installed product and its service Use SMP/E functions to install software service automatically over the internet Implement support for communication server FTP client Use the RECEIVE ORDER command to order and install z/OS maintenance automatically over the Internet 	□RIL □O □Q&A □P □RA □S □PD □A □MT □EW □RPL	Badges: SMP/E for z/OS Workshop - IBM Training - Global
25.0 Demonstrate basic understanding of how to Perform and upgrade a major product in a production	Demonstrate basic knowledge of: 25.1 Implementation plans 25.2 Risk assessments 25.3 Back out plans 25.4 Test plans 25.5 Change management processes to execute the implementation plan	□O □Q&A □P □RA □S □PD □A □MT □EW □RPL	Badges: SMP/E for z/OS Workshop - IBM Training - Global

Detailed Competency Framework – App Dev



Application Developer on IBM zSystems
Competency Framework

O*NET CODE: 15-1132.00 (Software Developers, Application) Updated on 03/11/2022

This document was created by IBM's Apprenticeship Program as an open source standard to help industry accelerate their journey to developing new collar apprenticeship and work-based learning programs.

					Building Applications with React and Flux
15.0	Understand how to use version control for all elements of the software delivery lifecycle	15.1 15.2 15.3 15.4 15.5	Describe the principles of version control Describe versioning, releases, issues, and merges in source code Demonstrate proper usage of versioning, releases, issues, and merges in source code Understand the use of dependencies and libraries from within and outside the team Demonstrate usage of dependencies and libraries from within and outside the team	 □ O □ Q&A □ P □ RA □ S □ PD □ A □ MT □ EW □ RPL 	OJT
16.0	Understand and demonstrate how to construct and test quality code, at scale	16.1 16.2 16.3 16.4 16.5 16.6	Understand how to construct quality code at scale Understand the techniques used for ensuring quality Understand the different types of testing, where to apply them, and the relative amounts Understand the successful use of test coverage tools Understand successful use of performance testing Understand successful use of boundary and limit testing Understand successful use of chaotic testing	□ O □ Q&A □ P □ RA □ S □ PD □ A □ MT □ EW □ RPL	OJT
17.0	Understand and demonstrate continuous integration	17.1 17.2 17.3 17.4	Articulate the value of continuous integration in a development environment - Course 1 Continuous Integration and Continuous Delivery - The Big Picture, Module 3 Demonstrate CI principles through frequent commits to trunk of codebase - Course 1 Continuous Integration and Continuous Delivery - The Big Picture, Module 3 & 5 Demonstrate CI principles through use of automated tests to ensure codebase is in a good state - Course 1 Continuous Integration and Continuous Delivery - The Big Picture, Module 3 & 5 Demonstrate proficient use of continuous integration tools - Course 2 Getting Started with Jenkins 2 and Course 3 Travis CI Demonstrate understanding of the impact of commit defects into shared codebase - Course 1 Continuous Integration and Continuous Delivery - The Big Picture, Module 4	 □ Q&A □ P □ RA □ PD □ A □ MT □ EW ☑ RPL 	Continuous Integration and Continuous Delivery – The Big Picture Getting Started with Jenkins 2 Travis CI
18.0	Understand and demonstrate continuous delivery	18.1	Articulate the value of continuous delivery in a development environment - Course 1 Continuous Integration and Continuous Delivery – The Big Picture, Module 4	☑ O☑ Q&A☑ P☐ RA	Continuous Integration and Continuous

Common Foundational

- Introduction to Computer Science (10h)
- IBM Z Xplore (32h)
 - Fundamentals
 - Concepts
 - Advanced
- z/OS Practitioner Certification Course (50h)
 - Intro to IBM z/OS
 - Intro to z/OS Commands and Panels
 - Systems Programming on IBM Z

Mainframe System Admin (MSA I)

- Professional Development Courses
- Networking Principles
- z/OS REXX Programming
- -z/OS System Services Structure
- SMP/E for z/OS Workshop
- Db2 Fundamentals
- CICS & IMS: IBM CICS Video Course Series
- -CICS TS: Controlling CICS Transaction Server Operations 5.6
- -CICS TS: Concepts and Operation Assessment 5.6
- -IMS Fundamentals
- -z/OS Introduction: An IBM Redbooks video course
- -z/OS JCL: Introduction to z/OS JCL
- -JCL Lecture
- -TSO / ISPF / SDSF Lecture

Mainframe System Admin (MSA II)

- Professional Development Courses
- IBM Z Hardware Management Console Operations
- IMS Fundamentals/Diagnostics
- IBM Z System Automation Curriculum
- IBM Mainframe Specialist z/OS Expert 2.5
- Db2 Database Management System Series
- Zowe Fundamentals
- Z Performance Introduction to Mainframe Performance

Application Developer (App Dev)

- -Big Data and Analytics: Hands On
 - Big Data 101
 - Hadoop 101
 - Spark Fundamentals
- Web Development Fundamentals
- -Front-End Web Development Quick Start w/HTML5, CSS, JavaScript
 - Intro to Web Development
 - iQuery Fundamentals
 - Angular: Getting started
 - Designing RESTful Web APIs
 - A Practical Start with React
 - Building Application w/React and Flux
- Clean Coding, Social Coding Behaviors and Practices
 - Manage Technical Debt
 - Clean Code: Writing Code for Humans
 - GitHub Fundamentals
 - Understanding and Eliminating Technical Debt
- Introductions to Functional and Imperative Languages
 - JavaScript Fundamentals Vol 1,2,3 & JavaScript
 - Development Environment
 - Node.js

- Python
- Java Fundamentals, Core Platform & Fundamental
- COBOL Programming: COBOL Programming with VSCode
- -Test Driven Development: Big Picture
- -Continuous Integration and Delivery Practices: Big Picture/ Getting started with Jenkins 2
- -Feature Decoupling Feature Toggles
- -DevOps tools: Chef, Travis, Ansible, Jenkins DevOps Big Picture
 - DevOps Big Picture
 - Implementing DevOps in the real world
 - Travis CI Tutorial
- -Cloud Computing Fundamentals (37TSO / ISPF / SDSFh)
 - IBM Cloud Essentials
 - IBM Cloud Application Development V3
 - IBM Cloudant
 - Docker Containers Big Picture
 - Container & Kubernetes Essentials
 - Introduction to OpenStack
 - Get started with Microservies ISTIIo
 - Beyond basics ISTII0

- Enterprise solutions
 - Db2 Fundamentals
 - Managing Db2 Operations
 - IBM CICS Video Course series
 - Modernize Applications w/IBM CICS
 - IMS Fundamentals

IBM Z Xplore Learning Platform

Host a Mini code-a-thon to to experience modern ways of working with the mainframe

The IBM Z Xplore mini code-a-thon is a one-day event with hands-on, self-paced challenges designed to experience modern ways of working on a mainframe.

Use today's common developer tools to create modern interfaces with current computer languages. Participant will create a web interface to a z/OS application and utilize data from IoT devices.

The code-a-thon has multiple challenges that progressively build on the concepts and code of previous challenges and a leadership board to showcase progress.

No prior experience required.

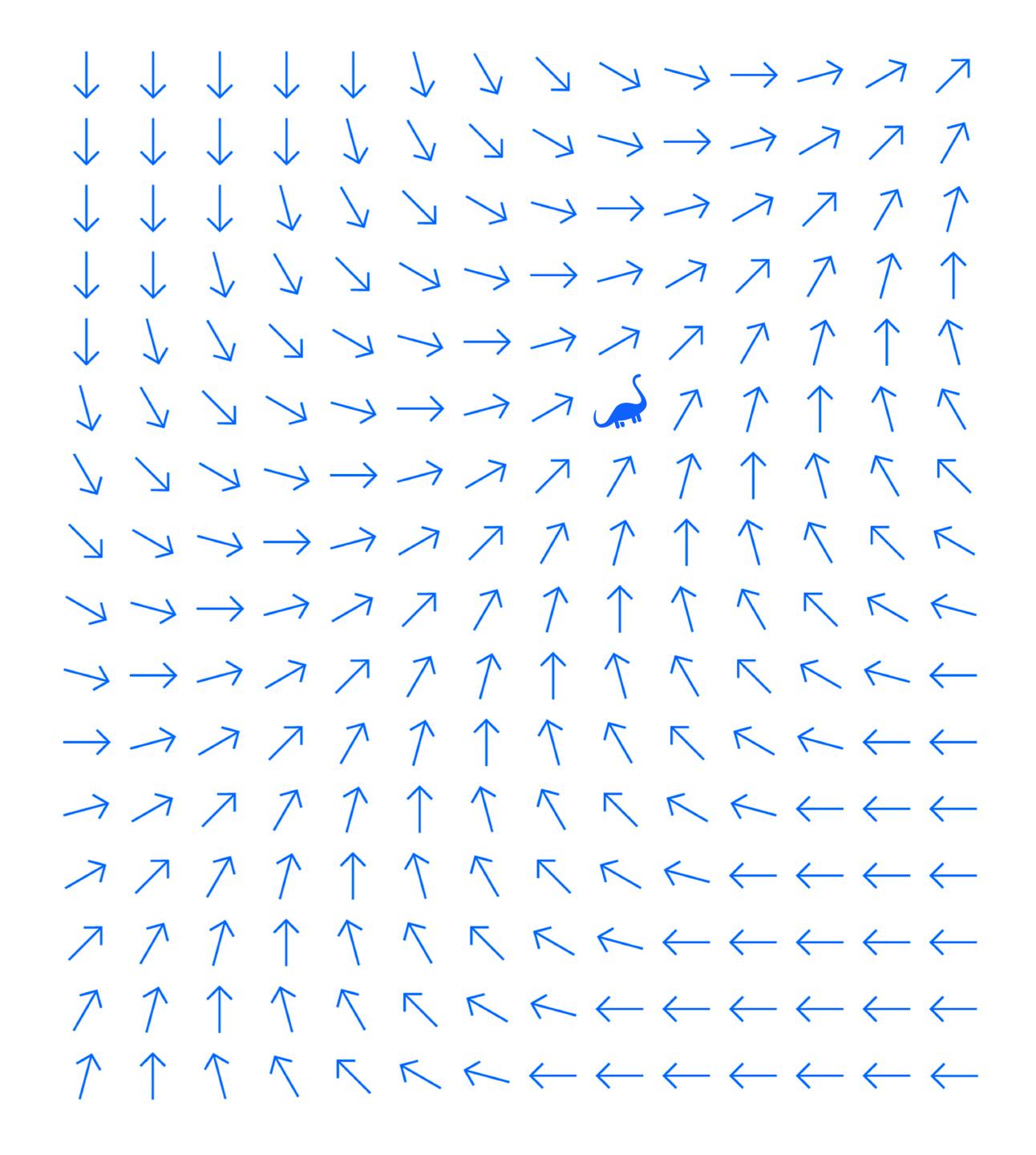


IBM Z Xplore Overview Kit Information Page

Additional Education – Training and Communities Available

Title	Description	Link
Getting started with IBM Z	Hands-on resources to get an understanding of IBM Z concepts and technologies. Includes IBM Redbook video courses – z/OS Introduction, CICS, IMS, Cobol	developer.ibm.com/components/ibmz
Learning Collections	Introduction to IBM Z	ibm.biz/zpath-introduction
	Application Modernization with IBM z/OS	ibm.biz/zpath-modernization
	Architecting Applications with IBM Z	ibm.biz/zpath-architecting
	IBM Z System Administrator	<u>ibm.biz/zpath-administrator</u>
	DevOps Transformations for IBM Z and CICD pipelines with DBB Git	ibm.biz/zsystemsDevOps
IBM Z Xplore	Mobile gaming app, interactive learning experience, IBM Z system access, student contest – build skills and earn badges	<u>ibm.biz/ibmz-xplore</u>
z/OS Mainframe Practitioner Certificate	Develop foundational skills in IBM Z hardware and software	ibm.biz/course-zosintroduction
IBM Training	(fee & no cost) Mainframe training, articles, badges, certificates and Learning Journeys	ibm.com/training/search?query=Mainframe
Open Mainframe Project	Cobol & Zowe classes	openmainframeproject.org/projects
Other opportunities to learn	n and take advantage	
Communities	New to IBM Z: For professionals new or up to 10-years experience on the mainframe	<u>ibm.biz/newtoibmz</u>
	Student Hub: For students wanting to explore careers in enterprise computing & prepare for the future of work	ibm.biz/ibmzstudenthub
	Educator Hub: One-stop destination for IBM Z educators to find the latest communications, news and events, as well as collaborate and network	ibm.biz/ibmzeducatorhub
IBM Skills Build Downloads (educators and students only)	Access to select IBM resources through a free self-service program that will provide students with the skills to differentiate themselves in their career.	<u>ibm.biz/z-academic</u>
© IBM Z Trial Softwares	Try the latest IBM® Z® software today at no charge, and with no installation required.	ibm.biz/ibmztrial

EnergiZ @ IBM DACH Wer, Wie, Was?!



Übersicht IBM Z Ausbildungsmöglichkeiten in DACH

IBM Global Training Partner

https://www.ibm.com/training/partners









European Mainframe Academy

https://mainframe-academy.de/



vICTory

https://victory-eu.eu/de/



IBM Skills Accelerator Program

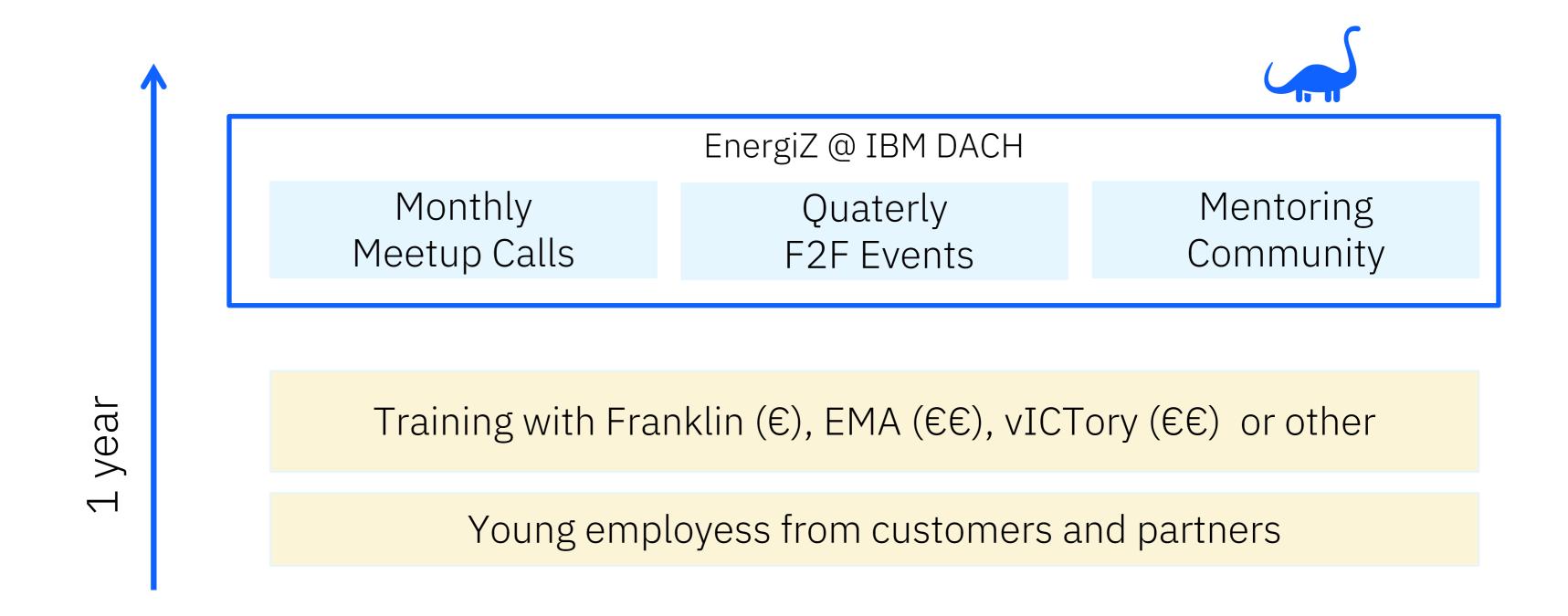
https://www.franklinapprentice ships.com/



weitere ...

EnergiZ @ IBM DACH

Team:
Maike Havemann
Steffen Janssen
Tobias Leicher
Tanja Lörwald-Schulz
André Spahni
Rüdiger Stumm
Katja Schneider



Die Basis des Programms ist eine fachliche Ausbildung:

- Online Learning über IBM Global Skills Accelerator Programm mit Franklin Apprenticeships in Englisch oder
- Lokales Learning mit der European Mainframe Academy (EMA) in Deutsch oder vICTory oder
- Eine Ausbildung bei einem anderen Schulungsanbieter

EnergiZ @ IBM DACH

Inhalte des Programms:

- Monatliche Community Calls mit fachlichen Schwerpunkten und der Möglichkeit zum Austausch
- Vierteljährlich, zweitägige persönlichen Treffen in wechselnden IBM Lokationen in Deutschland
 - Austauschrunde zum aktuellen Status bei allen Beteiligten
 - Erfahrungsberichte aus dem letzten Quartal
 - Gemeinsame Abendveranstaltung
 - Hands-On Labs und Workshops sowie Einbindung in die IBM Entwicklung des Mainframes

Anmeldung:

- Anmeldeschluss: 31.12.2023
- Email: katja.schneider@de.ibm.com
- Mindestteilnehmerzahl: 10

Start: 6.-7. Februar 2024, IBM Frankfurt

WICHTIG: Die Anmeldung zum EnergiZ @ IBM DACH Programm ist unabhängig von der Anmeldung zum Global Skills Accelerator Programm

Agenda

6. Februa	6. Februar 2024		7. Februar 2024	
11.00 Uhr	Begrüßung Vorstellung der Teilnehmer Erfahrungsausstausch	09.00 Uhr	Start Abstimmung Themen für die nächsten Treffen, Jahresplanung	
13.00 Uhr	Mittagessen	11.30 Uhr	Fachthema "Typische Mainframe Umgebungen –	
14.30 Uhr	Fachthema "Wie erreichen wir Hochverfügbarkeit bei der IBM Z"		von Monosystemen über Sysplex bis hin zu GDPS" Michael Grossmann, SVA	
	Marco Krämer, Martin Recktenwald, IBM Labor Böblingen	13.00 Uhr	Mittagessen	
	Networking	14.30 Uhr	Feedback	
	INCLVIOIRIII	15.00 Uhr	Ende	
17.00 Uhr	Ende			
18.30 Uhr	Gemeinsamer Abend			