



Organised by



In partnership



Department of Skill Development, Entrepreneurship and Livelihood,
Karnataka Skill Development Corporation (KSDC)
Government of Karnataka



India skills Competition KARNATAKA 2023

“
Let's make
Karnataka
the **Skill Capital**
of the world
”

Shri Basavaraj S. Bommai
Hon'ble Chief Minister of Karnataka



What is World Skills Competition?

The World Skills Competition is a flagship event which is organized once in two years. It is the biggest vocational education and skills excellence event that truly reflects global industry with more than 1000 youth under 22 years competing in more than 50 skills. Founded in 1950, World Skills Competition is the global hub for skills excellence and development. World Skills brings youth, industries, and educators together to give youth the chance to compete, experience, and learn how to become the best in their skill of choice. World Skills vision is to improve the world through the power of skills. It has 75 Member countries and regions, all working with youth, educators, governments, and industries to help prepare the workforce and talent of today for the jobs of the future.

About World Skills India 2022

World Skills India is an initiative of the National Skill Development Corporation (NSDC) under the aegis of Ministry of Skill Development and Entrepreneurship (MSDE), Government of India. NSDC, through its World Skills India initiative, has been leading the country's participation at World Skills International competitions since 2011.

India Skills Karnataka - 2022

The Department of Skill Development, Entrepreneurship and Livelihood, (SDEL) Government of Karnataka, aims at channelizing the dynamism of Youth in nation building activities. The Department has come up with several programs to reach, engage and empower the Youth of Karnataka to facilitate Skilling activities across the State.

Department of SDEL has always been at the forefront of encouraging talent and has produced a large pool of talent who have made Karnataka and India proud in the Global Skill Competitions. Awards and financial assistance to identified skill talents have marked an extra mile so far towards achieving remarkable goals.

Since 1950, many countries and regions across the globe have hosted World Skills Competition and with time comes experience. Department of SDEL, is all set to host most prestigious "**India Skills Karnataka - 2022**" in the Month of July 2022. Aim is to intensively train the winners of India Skills Karnataka 2022, to win in the regional and National India Skills Competition and represent India in the "**World Skills Competition – 2024 held at Lyon, France in 2024.**"

Skills create opportunities and connects societies . They are the foundation of economic progress Government, Industry Partners, Academia and policy makers work together to raise the profile and recognize skilled professionals around the globe. Together we are increasing the abilities, status, and economic prospects of young people.



Skills Identified -Karnataka

With a vision to harvest the existing potential and to win maximum medals, Department of Skill Development, Entrepreneurship and Livelihood (SDEL), Government of Karnataka has partnered with prominent Industries like Toyota, GTTC, KGTTI, Lavonne, NTTF, BRAM, etc.

The availability of strong potentiality in the opted skills shall increase the probability to grab medals at World Skills – 2024.

List of Skills and Age Criteria

Born on or after 1st Jan 2002

1 Floristry	16 Bricklaying	31 Health and Social care
2 Landscape Gardening	17 Wall and Floor Tiling	32 IT Software Solutions for Business
3 Fashion Technology	18 Plastering and Drywall Systems	33 Web Technologies
4 Prototype Modelling	19 Concrete Construction Work	34 Mobile Applications Development
5 Automobile Technology	20 Electronics	35 Graphic Design Technology
6 Car Painting	21 Electrical Installations	36 3D Digital Game Art
7 Autobody Repair	22 Refrigeration and Air Conditioning	37 Print Media Technology
8 Beauty Therapy	23 Mobile Robotics	38 Painting and decorating
9 Hairdressing	24 Industrial Control	39 Plumbing and Heating
10 Yoga	25 IT Network system administration	40 Visual Merchandising
11 Welding	26 Cabinetmaking	41 Patisserie and Confectionery
12 Plastic Die Engineering	27 Carpentry	42 Restaurant Service
13 CNC Milling	28 Joinery	43 Cooking
14 CNC Turning	29 Jewellery	44 Bakery
15 Mechanical Engineering Design CAD	30 Renewable Energy	45 Hotel Reception

Born on or after 1st Jan 1999

46 Robot Systems Integration	50 Industry 4.0	53 Cyber Security
47 Additive Manufacturing	51 Water Technology	54 Industrial Design Technology
48 Digital Construction	52 Cloud Computing	55 Information Network Cabling
49 Mechatronics		

Levels of the Competitions

Level 1- Preliminary: Last date to upload video & register 15th November 2022

Duration: Up to 5 Minute

EXAM MODE: Recording video of live skill demo as per the test question mentioned in the link, by the candidate, up to 5 min and uploading in Kaushalkar Portal

Top 50 in each skill will be shortlisted from Preliminary to zonal level

Training Involved: No

Place of Test Conduction: Online

Level 2 - Zonal: Last Week of December 2022

Duration: 2 to 3 Hours

EXAM MODE: Execution of Test Project practical for each skill, at the skill centre located across Karnataka

Top 10 in each skill will be selected from Zonal to State level

Training Involved: No

Place of Test Conduction: Any part of Karnataka

Level 3 - State: Last Week of March 2023

Duration: 4 Hours

EXAM MODE: Execution of Test Project practical for each skill, at the skill centre located across Karnataka

Top 2 in each skill will be selected from State to Regionals

Training Involved: 1 to 2 months of free training given by experts, at centre of excellences of each skill for selected candidates from zonal stage before state competition

Place of Test Conduction: Any part of Karnataka

Levels of the Competitions:

Level 4 - Regional: July 2023 tentative

Duration: 3 Days

EXAM MODE:

Execution of Test Project

Top 3 in each skill will be eligible from Regionals to Nationals

Training Involved: 1 to 2 months of free training given by experts, at centre of excellences of each skill for selected candidates from regionals stage before National competition

Place of Test Conduction: Online

Level 5- National: December 2023 tentative

Duration: 3 Days

EXAM MODE:

Execution of Test Project

Top 1 in each skill will be eligible from Nationals to International

Training Involved: 6 months of free training given by experts, at centre of excellences of each skill for selected candidates from National stage before International Competition

Place of Test Conduction: New Delhi

World Skill Lyon 2024: 10-15th September 2024

Duration: 3 Days

EXAM MODE:

Execution of Test Project

Place of Test Conduction: Lyon, France

Selection Process and How to Participate in the Preliminary Level

Competition?

Candidate must record a live video of the respective skill video, as per the test questions mentioned in the link against each skill, up to 5 min and upload in **Kaushalkar Portal**

Registration & Skill demo Video uploading link

The candidate must register and upload the skill video through Kaushalkar Website through <https://www.kaushalkar.com/app/world-skill-registration> link.

Video

- At the time of Registration, the candidate needs to Upload Skill Demo Video in their respective Skill based on the Task provided against each skill.
- Max size – Upto 200 MB (Ensure good network while uploading)
- Video Format- Mp4
- The candidates can also **upload the URL Link** of the video if size exceeds

Photos

- Upload 5 photos in the photo tab
- **Upload the URL of the portfolio** of your work if any
- In portfolio window, candidates can upload up to 5 documents any of their skill recognitions like awards, certificates of achievement or courses undergone, medals, final product/display of the given task done by candidates.
- Photo Format & size- JPEG, JPG and PNG with size Up to 5 MB each
- Document format & size – PDF Upto 5 MB

Evaluation

- After the registration, uploaded test projects (Skill Demo Video) will be evaluated by a panel of experts and juries in the respective skills through the pre-determined evaluation criteria
- **Top 50 candidates** from each of 55 skills will be selected to **the next level competition (Zonal)**

The last day for Registration: **15th November 2022**

For any clarifications Helpline Number: **8277895930**

SPOC for InstitutionsQUIRES a district level: **DISTRICT SKILL DEVELOPMENT OFFICERS**

Queries can also be mailed: Indiaskillskarnataka2022@gmail.com

For complete information regarding World Skills and India Skills - Karnataka 2022 kindly log on to:

<https://www.worldskillsindia.co.in/> and <https://www.kaushalkar.com/world-skills-2/>

Note: Kindly note that all the cost for training the candidates will be borne by Karnataka Skill Development Corporation. No fees will be collected by candidates at any phase & it is completely free & borne by KSDC

Skill Description

3D Digital Game Art

Please upload upto 5 minutes video of you preparing a model of the Traditional Indian sword & show the final art . The asset should have a clean polygon distribution and proper use of edge loops and hard and soft edges.It needs to follow basic Game modelling process.

Additive Manufacturing

Please upload upto 5 minutes video of you Using Autodesk fusion 360 software design any CAD Model and Generate programming using slicing software. . Upload 2 minutes video of about designing, slicing and printing.

Autobody Repair

Please upload upto 5 minutes video of you performing Dolly and Hammer technique on a automobile body.

Automobile Technology

Please upload upto 5 minutes video of you doing Engine Mechanical where in Candidate should perform mechanical tasks on engine (mounted on engine stand), including disassembly, measurements and assembly.

Bakery

Please upload upto 5 minutes video of you doing Baguette or a bread made by braiding technique.

Beauty Therapy

Please upload upto 5 minutes video of you doing eye makeup & show the final make up.

Brick Laying

Please upload upto 5 minutes video of you constructing 1 brick Straight Wall with Flemish bond,Length of the wall – 5 Bricks,Breadth of the wall – 1 brick, height of the wall – 8 bricks and with tolerance - ± 4 mm.

Cabinet Making

Please upload upto 3 minutes timelapse video of you making a cabinet and display the final look.

Car Painting

Please upload upto 5 minutes video of you doing Colour matching and name the primary colours.

Carpentry

Please upload upto 3 minutes timelapse video of you making a Table and display the final product.

Cloud Computing

Please upload upto 5 minutes video of the task given

Host a static website on Amazon S3 bucket, such that it can be viewed by anyone. The website can be a simple HTML code. Record a full video of the whole process and share the link of the hosted website to us.

CNC Milling

Please upload upto 5 minutes video of you doing using MASTER CAM Software, design any model & generate CNC programming and upload PDF files with Machining Simulation Video

CNC Turning

Please upload upto 5 minutes video of you using MASTER CAM Software, design any model & generate CNC programming and upload PDF files with Machining Simulation video

Concrete Construction Work

Please upload upto 5 minutes video of you doing following task

System Shuttering: Assemble & Dismantle of Column form ; Size of the column – 500mm X 500mm X 2400 mm ; Tolerance - ± 3 mm

Cooking

Please upload upto 5 minutes video of you preparing a Creamy soup (Display the consistency of the soup in the end of the video.

Skill Description

Cyber Security

Candidate should take up the online test at Kaushalkar portal

Digital Construction

Candidate should take up the online test at Kaushalkar portal

Electrical Installations

Please upload up to 5 minutes video of staircase wiring

Electronics

Please upload up to 5 minutes time lapse video of you creating a "LED Running Light"- in which you need to make an electronic circuit where in there are eight LEDs in circular pattern and they should be glowing one by one in a sequence with a time difference of 0.5 seconds.

Fashion Technology

Please upload up to 5 minutes video of you performing a simple drape style on a mannequin.

Floristry

Please upload up to 5 minutes video of you doing Cascade Bouquet and name the flowers used in it.

Graphic Design Technology

Please upload up to 5 minutes video of you designing any Emblem and show the final product

Hairdressing

Please upload up to 5 minutes video of you doing bridal hair style.

Health and Social care

Please upload up to 5 minutes video of you doing following task-

- 1) Assist patient to sit up & move out of bed on to the wheelchair and explain the safety precautions on prevention of fall.
- 2) Check BP and Temperature.

Hotel Receptionist

Please upload up to 5 minutes video of you receiving a customer at the hotel and helping him/her to check in through registration.

Industrial Control

Please upload up to 5 minutes video of you doing Forward Reverse Direct On Line (DOL) starter and with colour coding of wiring.

Industrial Design Technology

Candidate should take up the online test at Kaushalkar portal

Industry 4.0

Please upload up to 5 minutes video of you Using PLC, SCADA and Automation run any programming using any IOT software. Upload 2 minutes Video about programming and working on automation with SCADA control.

Information Network Cabling

Please upload up to 5 minutes video of you doing the given task-
Speed and quality test of fibre optical fusion splicing

IT Network system administration

Candidate should take up the online test at Kaushalkar portal

IT Software Solutions for Business

Candidate should take up the online test at Kaushalkar portal

Joinery -

Please upload upto 3 minutes timelapse video of you making a complicated joinery and display the final product.

Skill Description

Jewellery

Please upload up to 5 minutes time lapse video of you designing and wire wrapping a pendent using copper. Also display the sketch and final product at the end of the video.

Landscape Gardening

Please upload up to 5 minutes video of you implanting lawn on a 5x5 space and design the landscape with the required materials and plants.

Mechanical Engineering Design CAD

Please upload up to 5 minutes video of you doing Using Autodesk fusion 360 / inventor software design any Mechanical Assembly with Drafting & Rendering and Upload the PDF files with Animation video. Upload the 2 minutes Video about designing, assembly and rendering.

Mechatronics

Please upload up to 5 minutes video of you doing the following task- Electrical Wiring

Write the relay circuit for the following condition and upload the written document in portfolio section.

When PB1 & PB2 is pressed and job present in the station, the motor starts rotating in forward direction, after 5 sec motor stops & L1 blinks indicating forward rotation, rotation complete L1 off there after 3 sec motor runs reverse direction & L2 gets ON indicating reverse rotation. The motor stops after 4 sec & L2 off

Parameter: PB3 press everything off.

Cycle should repeat if PB1 press again after completion of one cycle.

Mobile Applications Development

Develop any Mobile app (client side) using Android Studio or Xcode-swift based iOS app & take a video of the mobile app demo & upload the video. Assessment will be on UI and functionalities for level 1 selection. SQLite can be used for client side data storage. Knowledge of Flutter would be an added advantage.

Mobile Robotics

Please upload up to 5 minutes time lapse video of you making a robot on Industrial Automation Theme -

Task of the robot is to pick up the object and take it to the desired workstation.

Painting and decorating

Please upload up to 5 minutes video of you Painting and decorating a wall with any concept.

Patisserie and Confectionery

Please upload up to 5 minutes video of you doing a Cup Cake.

Plastering and Drywall Systems

Please upload up to 5 minutes video of you performing the below task

- 1) Wall plastering: Length – 2500mm; Height – 2500mm ;Thickness – 12mm ;
Finishing – Smooth(Float finishing), Tolerance - ± 2 mm
- 2) Drywall System: Install partition board (Aluminum, Gypsum) ;
Size of the drywall – 4000mm X 2000mm ;Tolerance - ± 2 mm

Plastic Die Engineering

Please upload up to 5 minutes video of you Using Autodesk CAD & MASTER CAM Software, Design Any Model with Core Cavity Extraction & Generate CNC programming and Upload PDF files with Machining Simulation Video.

Plumbing and Heating

Please upload up to 5 minutes video of you doing the given task.

Plan and build the Coldwater line, on the basis of any architectural plan.

Print Media Technology

Please upload up to 5 minutes video of you Mixing inks to prepare a colour matching of any shade

Skill Description

Prototype Modelling

Please upload 5 minutes video of you preparing a 3D model and building an actual model of technical components.

Refrigeration and Air Conditioning

Please upload up to 5 minutes video of you cutting, swaging, flaring and brazing of any copper tube with safety precaution

Renewable Energy

Please upload up to 5 minutes video of you doing the given task Crimping a MC-4 connector with solar wire

Restaurant Service

Please upload up to 5 minutes video of you doing following task-

- 1) Lay table for 4 personals with four course menu.
- 2) Lay 10 different napkin folds of their choice.

Robot Systems Integration

Please upload up to 5 minutes video of you performing the following task-

1. Candidate should prepare the work Layout for the given task (Robot loading and unloading of the Part in the machine & upload the layout).
4. Create the tool path welding animation for the welding robot.

Visual Merchandising

Please upload up to 5 minutes video of the below task.

- 1) Take 5 sheets of paper (A4 Sheet)
- 2) Fold them to create some shapes.
- 3) Arrange / display all the shapes in different presentable ways

Wall and Floor Tiling

Please upload up to 5 minutes video of you performing the below task.

- 1) Wall Tiling: Length – 2118mm, Height – 2118mm (Size of Tile – 300mm X 300mm)
Spacer – 3mm, Tolerance - ± 2 mm
- 2) Floor Tiling: Length – 2118 mm, Breadth – 2118 mm (Size of Tile – 300mm X 300mm)
Spacer – 3mm, Tolerance - ± 2 mm.

Water Technology

Please upload up to 5 minutes video of you explaining about

- 1) Explain about sewage treatment plant.
- 2) Prepare 1 Normal solution of Sodium Hydroxide(NaOH)

Web Technologies

Please upload up to 5 minutes video of you doing the following task- Write the program for the following conditions and upload the written document in portfolio section.

- 1) Write a PHP program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".
- 2) Write a PHP script to convert a string to Date and Date Time
Sample date: '12-08-2004' Expected Output: 2004-12-08 Note: PHP considers '/' to mean m/d/Y format and '-' to mean d-m-Y format

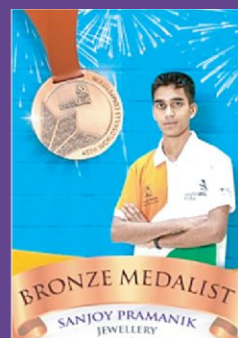
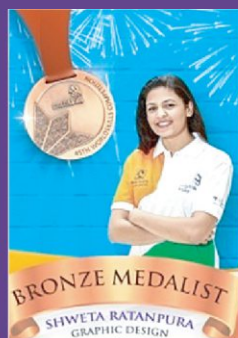
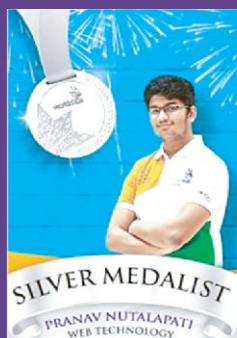
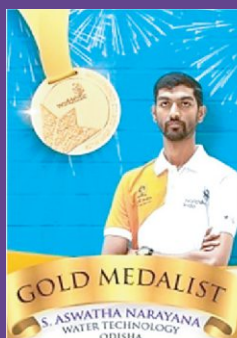
Welding

Please upload up to 5 minutes video of you doing welding using Arc or TIG or MIG technique on Mild Steel(MS)

Yoga

Please upload up to 5 minutes time lapse video of Demonstrating yoga asanas.

Winners of World Skills Kazan 2019 from India



Winners from Karnataka Representing India at World Skills 2022



Nallamothu Thanmayee
Cooking



Farhan Raza Pantoji
CNC Milling



Ganesh R Irkal
Plastic Die Engineering



Likith Kumar
Prototype Modelling



Karthik Gowda
Mechatronics



Akhilesh
Mechatronics



Nandita Saxena
Patisserie & Confectionery



Prathem Sharma
Bakery



Steven Harris R
Graphic Design Technology

Dr. C. N. Ashwathnarayan

Hon'ble Minister for Minister for Higher
Education, IT & BT, Science & Technology, Skill
Development, Entrepreneurship & Livelihood



For any further clarifications Contract Details: Help Line Number +91 82778 95930

For complete information on Qualifying parameters, Registration, Assessment criteria, rules and regulations, Dispute clearing mechanism, Awards and other related information kindly log on to

<https://www.kaushalkar.com/world-skills-2/>

Best Wishes

Dr. S Selvakumar, IAS

Principal Secretary, to Government of Karnataka
Department of Skill Development Entrepreneurship and Livelihood