

Creating a city that conserves water

Lacking a major river and plentiful water resources, Fukuoka City experienced droughts with long-term water restrictions twice in past. Since then, we have been Japan's leading city in terms of valuing water resources, and we are working on various plans to make the most effective use of them.

◆Creating a city with efficient water circulation

~Promoting a city with efficient water circulation~

【Lecture】	Code No	【Visit】	Code No
01_Creating a city that conserves water	WCT-01	01_Water management center	WCV-01
		02_Water treatment plant	WCV-02
		03_Umino-Nakamichi Nata seawater desalination center	WCV-03

◆Sewerage Administration, Flood control ~Creating a pleasant city that values water~

【Lecture】	Code No	【Visit】	Code No
01_Sewage treatment	WST-01	01_Water treatment center	WSV-01
02_Sewage reclaiming	WST-02	02_Treated water facility	WSV-02
03_Maintenance and management	WST-03	03_Flood prevention facility	WSV-03
04_Comprehensive measures against torrential rainfall	WST-04	04_River maintenance project	WSV-04
05_River maintenance	WST-05		

◆Creating a city with efficient water circulation

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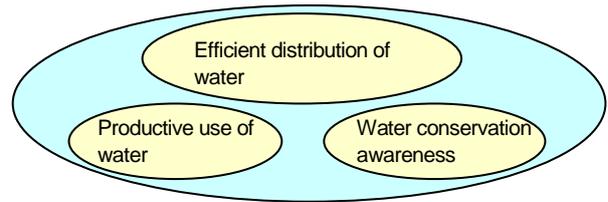
Geographically lacking a major river and rich water resources, Fukuoka City has struggled with water shortage, experiencing drought with long-term water restrictions in 1978 and 1994. As such, we are working on various plans to make effective use of water resources.

【Training Menu】 Creating a city with efficient water circulation

Rain water is constantly in natural circulation – it is retained in soil, and eventually evaporates and returned to the atmosphere. Here, lectures are given on Fukuoka City's efforts to **create a city with efficient water circulation**, with the government, the public, and businesses working in unison.

01_Creating a city that conserves water **WCT-01**

Lectures will be given on productive use of water, efficient distribution of water and raising awareness about water conservation.



【Details of the Visit】

01_Water management center (central control room and long-distance monitoring equipment) **WCV-01**



The center monitors the ever-changing water consumption level in the city **24 hours a day**, and adjusts the water pressure by remotely-controlling an electric valve.

02_Water treatment plant (Tatara water treatment plant) **WCV-02**



This water treatment plant treats 122,000 m³ of water a day through coagulation, sedimentation, rapid filtration and other advanced water treatment techniques (such as ozone treatment and granular activated carbon adsorption treatment).

03_Umino-Nakamichi Nata seawater desalination center (Mamizu Pier) **WCV-03**

Observe the desalination process at a seawater desalination center with Japan's largest production capacity of 50,000m³/day and one of **the world's highest freshwater recovery rates (approx. 60%)**.



◆ Sewerage Administration, Flood control

~Creating a pleasant city that values water~

Fukuoka City's sewage system serves 99.5% of its population. We are working on creating an environment-friendly city with efficient water circulation through advanced sewage processing, efficient use of treated water, and flood control measures.

【Training Menu】

01_Sewage treatment **WST-01**

Lectures will be given on the sewage treatment system at Fukuoka City's water treatment center.

02_Sewage reclaiming **WST-02**

Lectures will be given on reclaiming sewage water that has been treated with advanced technologies.

03_Maintenance and management **WST-03**

Lectures will be given on sewage management and maintenance, and cleaning and repairing techniques of pipes and drains.

04_Comprehensive measures against torrential rainfall **WST-04**

Lectures will be given on Fukuoka City's comprehensive, progressive efforts to prepare for torrential rainfall.

05_River maintenance **WST-05**

Lectures will be given on Fukuoka City's efforts in river maintenance and disaster relief.

【Details of the Visit】

01_Water treatment center (Seibu water treatment center) **WSV-01**

Visit our water treatment center, where sewage water from homes and factories is purified and environmental pollution is contained.

The center has an advanced treatment system that reduces phosphorus, which causes eutrophication.

- Seibu water treatment center
 - Site area: approx. 20ha
 - Volume of water treated daily: approx. 120,000 m³

02_Treated water facility (Chubu water treatment center) **WSV-02**

When waste water is processed so as to render it reusable, it is called “treated water.” Fukuoka City uses treated water for toilets and to water roadside trees; it supplies water to an area that stretches as much as 1,304ha across the city. You will visit the facility where the water treatment takes place.

- Chubu Water Treatment Center
 - Volume of water supplied daily: approx. 7,000 m³
 - Supply area: 1,165ha



03_ Flood prevention facilities (San-o balancing reservoir, Hie main rainwater way)

WSV-03

Torrential rain and consequential flooding in urban areas has caused problems around the world. Fukuoka City is implementing measures against flooding in urban areas.

You will visit facilities involved in counter-flooding operations in the city’s urban areas.

- San-o balancing reservoir (capacity of approx. 28,000 m³)
- Hie main rainwater way (Reservoir tube)



04_River maintenance projects (Naka River (Ribon Citio Nakagawa), Kanakuzu River (Medaka no gakkou)) **WSV-04**

You will inspect sites that conduct river modification and river-integration with the surrounding landscape and community development. You will also see sites where the development of comfortable waterside spaces is undertaken along with the residents in the area.

- Naka River (Ribon Citio Nakagawa)
- Kanakuzu River (Medaka no gakkou)