

C) Instructors	Areas of Specialization
Engineer Geert WEIMANN	<ul style="list-style-type: none"> • Plant Design and Safety Evaluation • Design, Procurement, Construction of NPP • Nuclear Regulations • Emergency Management • Reactor Dynamics and Thermal Hydraulics
Professor Helmuth BÖCK	<ul style="list-style-type: none"> • Reactor Technology • Reactor Safety • Reactor Instrumentation • Reactor Physics
Dr. Kaluba CHITUMBO	<ul style="list-style-type: none"> • Nuclear Technology • Nuclear Chemistry • Energy Control and Regulatory Systems • Nuclear Safeguards • Non-proliferation • Nuclear Disarmament

Professional Fees

Total firm fixed price (net of taxes) is

EUR 2,950

per each technical visit/training

The professional fees include:

- Costs associated with the facility, instructor, training • Material and management • Refreshments

The professional fees does not include:

- 20% VAT • Transport (If needed this can be quoted separately)
- Lunch (If needed this can be quoted separately)

Maximum of 25 persons per each technical visit.

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RIENTEC



One Day Technical Visit / Training at

Zwentendorf NPP



Background

About Zwentendorf NPP Training Centre



The Zwentendorf Nuclear Power Plant in Austria is a 723 MWe Boiling Water Reactor (BWR) plant situated in the picturesque countryside of Tullnerfeld, just an hour long drive from the International Atomic Energy Agency (IAEA) in Vienna. The plant was built in 1978, was ready to operate, but was never commissioned due to a policy decision of the Austrian Government.



RIENTEC, along with the plant owners EVN Liegenschaftsverwaltung GmbH, has established this plant as a training centre that offers unrestricted and radiation free accessibility, which is not available in an operating NPP. The centre provides a realistic environment for hands-on training in the areas of management, operation, maintenance and technical support of a nuclear power plant to develop a highly skilled workforce for the global nuclear industry.

RIENTEC has been regularly conducting training workshops at the Zwentendorf NPP Training Centre.

About RIENTEC



RIENTEC GmbH is a Vienna, Austria headquartered company, with competencies underpinned in nuclear energy related services and technologies. RIENTEC is resourced by some of the finest members in the nuclear industry consisting of academia and practitioners, and staff from international agencies. We bring subject matter experts for each of the services.

The services provided by RIENTEC include the following:

1. Planning Services

- Feasibility Studies
- Strategic planning
- Bid Invitation Specification Development
- Risk Analysis and Risk Management
- Fuel Supply Planning
- Technology selection
- Grid Analysis
- Environmental Impact Assessment.
- Documentation preparation

2. Design

- Siting & Site Selection
- Geospatial Mapping
- GIS

3. Support

- Project Management
- Quality Assurance

4. Maintenance Services

We have the capability to undertake maintenance activities of plant equipment.

5. Training Services

Our training services provide a wide range of programmes in nuclear engineering and technology. For example our training programmes at the Zwentendorf Nuclear Power Plant.

Programme of a One Day Technical Visit/Training

A) Schedule of Activities

TIME	ACTIVITY
08:00	Departure from Vienna International Centre Gate I
08:45	Arrival at Zwentendorf NPP Training Centre
9:00 - 10:00	Lecture: History of Austrian NPP programme: Decision-making, how did it start, why did it stop (importance of public communication and public acceptance), who was involved, how did they choose the technology of a BWR, siting considerations
10:00 - 10:15	Coffee Break
10:15 - 12:00	a) Lecture: Basic overview of NPP technology: How Boiling Water Reactor (BWR) works and considerations to other reactor types .A short technical description of issues relevant to Fukushima accident (Fukushima reactor is also a BWR) b) Film on construction of Zwentendorf NPP (23 minutes, in English)
12:00 - 13:00	Lunch
13:00 - 16:00	Plant Walkdown: Sections, features and functioning of BWR and also relevant considerations to other nuclear reactor types. Issues of safety, security and safeguards would also be pointed out during the walk down. See the walkdown plan in the next page. It includes the following: Element fuelling system, reactor vessel, spent fuel pond, structures of the reactor vessel safety systems, water cooling system, emergency condensing system, condensers, turbine, control rod and the emergency shutdown systems etc.
16:00	Departure from Zwentendorf NPP Training Centre

Programme dates to be discussed upon to fit the client

B) Walkdown Plan

