HKSAR had been invited to take part in the 2011 Xi’an International Horticultural Exposition (the Expo) which was held from 28 April to 22 October 2011 in Xi’an. The scope of the project comprises the design and construction of the Hong Kong Garden and the maintenance and upkeep works for the 2011 Xi’an Expo period.

The main theme of the 2011 Xi’an Expo is “Eternal peace & harmony between nature & mankind, nurturing the future earth – a city for nature, co-existing in peace”.

The design ideology of Hong Kong Garden is "respecting nature, caring people", using plants, wind, landscape and other elements to elevate the visitors’ spirit; also through modern green building concepts and abstracted geographical beauties in
Hong Kong, to explore the harmony among "people, cities and nature"

Among the design themes in Hong Kong Garden – “fragrance”, “dynamism” and “environment”, “sensation” is premier with several meanings:

**Sensation towards people**
Multi-sensory tactile maps are installed at the entrances to assist people with different abilities to understand the Hong Kong Garden. The concept of ‘Universal Accessibility’ is applied so that whether the young, the old, even the wheelchair users, can tour freely in the garden.

**Sensation through plants**
A three-green-ring design concept is adopted in soft landscaping design. The garden centre is dedicated to showcase characteristic Hong Kong native species which are surrounded by an inner ring of plants from South of Yangtze. The Xi’an native plants form an outer layer of the garden. This ring concept not only creates layering spaces and enriches the visual effect; by blending plants from different regions, it represents the good relationship among
Sensation towards nature
Tree-ZE, an architectural installation, is constructed using mini-turbines developed in Hong Kong; the circular ‘tree crown’ captures wind in whatever direction to propel the turbines, interprets wind’s presence as if it is greeting the visitors. When the turbines revolve, electricity is generated and fed into the main system, drawing water to height and then fall naturally down through the vertical green plants back to the pool. This scene portrays nature as a cycle and brings out messages in caring the environment and cherishing natural resources.

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Home Affairs Bureau, HKSAR Government

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<table>
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<tr>
<th>Course</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Buildings Ordinance and its Administration Procedures</td>
<td>15 hrs</td>
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<tr>
<td>Building Planning Regulations and Development Control</td>
<td>15 hrs</td>
</tr>
<tr>
<td>Application of Sustainable Building Design (SBD) Guidelines</td>
<td>12 hrs</td>
</tr>
<tr>
<td>Fire Safety for Building Planning</td>
<td>12 hrs</td>
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<tr>
<td>Fire Service Regulations and Requirements</td>
<td>7 hrs</td>
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<tr>
<td>Introduction to Fire Safety Engineering</td>
<td>7 hrs</td>
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<tr>
<td>Site Design, Building Design, Construction Details and Documentation</td>
<td>18 hrs</td>
</tr>
<tr>
<td>Barrier Free Access Design for Buildings</td>
<td>9 hrs</td>
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<tr>
<td>Introductory Workshop on Building Information Modelling (BIM)</td>
<td>6 hrs</td>
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</tbody>
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Specifications:
Material
Steel: Cover and frame are 14 gauge (1.9mm) G-90 paint bond galvanized steel

Cover
Breakformed, hollow-metal design with 1" (25.4mm) concealed fiberglass insulation, 3" (76mm) beaded, overlapping flange, fully welded at corners, and internally reinforced for 40 psf (106 kg/m²) live load

Curb
12" (305mm) in height with integral cap flashing, 1" (25.4mm) fiberboard insulation, fully welded at corners, and 3-1/2" (89mm) mounting flange with 7/16" holes (11mm) provided for securing frame to the roof deck

Gasket
Embeded EPDM rubber gasket permanently adhered to cover

Hinges
Heavy-duty pin type hinges with 3/8" (9.5mm) Type 316 stainless steel hinge pins

Latch
Slam latch with interior and exterior turn handles and padlock brackets

Lift Assistance
Compression spring operators enclosed in telescopic tubes. Automatic hold-open arm with grip handle release

Finish
Steel: Alkyd base red oxide primer

Hardware
Steel: Engineered composite compression spring tubes. Steel compression springs with electropolished acrylic finish. All other hardware is zinc plated/chromate sealed

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