

TRAINING COURSES

BUILDING WITH ARCHES, VAULTS AND DOMES (AVD)

To download complete Masonry *Building with arches, vaults and domes (AVD)*, as Doc. file,
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Three programmes of two-week long training courses are regularly scheduled every year at Auroville. The first week is theoretical and approaches the stability study of vaulted structures. This week is only for engineers, architects or students. The second week is practical and trainees are building various arches, vaults and domes. This course welcomes all skills: engineers or architects, technicians or supervisors, masons or students and laymen.

First week on theory and stability study of vaulted structures



Theoretical class for stability study



Stabilised study by students, with the catenary method



Catenary study of a vault



Stabilised study with the funicular method



Stabilised study with the funicular method



Stability study by students

Second week on building vaulted structures



Building various types of arches



Building various types of arches



Semicircular and segmental arches



Enjoying the strength of a segmental arch



Enjoying the strength of a segmental arch



Building a corbelling segmental vault with the Nubian technique



Building various domes



Building a hemispherical dome



Building a hemispherical dome



Building a pointed dome



Building a segmental dome



Building a conical dome



Building a cloister arch dome



Building a squinche dome



Building various domes



Building on site a pointed octagonal dome



Building on site a segmental - conical vault



Building on site a segmental vault



Building various types of arches



Testing a segmental arch



Testing the strength of a pointed arch