

Denis Martel has worked in the fabricating industry since 1986. As a consultant to 300 factories and companies in Quebec, he has participated in the design or supervised the fabricating, repair or commissioning of a variety of products, machinery and equipment, often specific to each company.

PROFESSIONAL ASSOCIATIONS

- Ordre des ingénieurs du Québec
- Association Professional Engineers of Ontario
- Institut de soudage du Québec
- American Welding Society
- Québec Association for Quality

SPECIALTIES

- **Welding**
 - Engineer responsible for the design and execution of weld joints (80 companies)
 - Fusion welding procedures, steel and aluminum structures
 - Special procedures for the repair or maintenance of various metals and equipment, including preparation, welding and inspection methods
 - Certification to the following welding standards: CSA W47.1, W59, W47.2, W59.2 and W186, as well as AWS and ASME
 - Visual inspection according to CSA Standard W178.2, level III
 - Functional and operational expertise
 - Quality assurance manuals (ISO-9000, Z299 and ASME standards)
- **Hoisting equipment** (mobile cranes, tower cranes, boom trucks, overhead pods, cherry pickers; elevator, self-propelled or mobile work platforms with jib boom; lifts, bridge cranes, hoists, hoisting spreader bars, access ladders, mechanical rams and other heavy equipment)
 - Design, repair procedures and maintenance programs
 - Operational tests
 - Certificates of compliance to CSA 354, C225, Z150, Z248 and other standards
 - Approval of mobile cranes to obtain a travel permit.
- **Industrial engineering**
 - Design for dynamically loaded structures
 - Design of tanks according to API 650 and ASME, Division VIII.
 - Design and repair of F.O.P.S. and R.O.P.S. protective structures for mining and excavation equipment.
 - Supervision of work regarding structures and other fabricated assemblies.
 - Certification according to the Regulation respecting concrete pumps.
- **On-the-job training**
 - Training in welding for welders, supervisors and design personnel

SUMMARY OF EXPERIENCE

- Since 2005: President of SODEVEC INC.
- From 1987 to today: welding engineer/project manager for SODEVEC INC.

SOME ACHIEVEMENTS

- Designed the coke silos at the Luralco aluminum smelter.
- Converted a forklift into a crane to lift railway cars.
- Welding procedures for the assembly of several components of the Hibernia and Terranova drilling platforms.
- Installed a tower crane boom between the top two floors of Place Ville-Marie to raise heavy equipment.
- Increased the capacity of a mobile crane from 25 tonnes to 30 tonnes.
- Welding procedures for the manufacturing of octagonal towers for power transmission lines.
- Welding procedures for the connection of busbars supplying power to aluminum casting tubs.
- Supervised all welding operations at Procter & Gamble.
- Designed and welded an aluminum support superstructure for road signs.

EDUCATION AND TRAINING

- M.Sc.A., Welding Metallurgy, Université Laval, 1986
- B.Sc.A., Mechanical Engineering, Université Laval, 1984
- Various continuing education courses, including:
 - Visual Inspection, Level III (Canadian Welding Bureau)
 - Operation and Safety of Articulated Cranes (Hiab Québec)
 - Senior Auditor (SGS)
 - Design of Steel Structures (CISC)
 - Antiseismic Design of Steel Structures (McGill University)