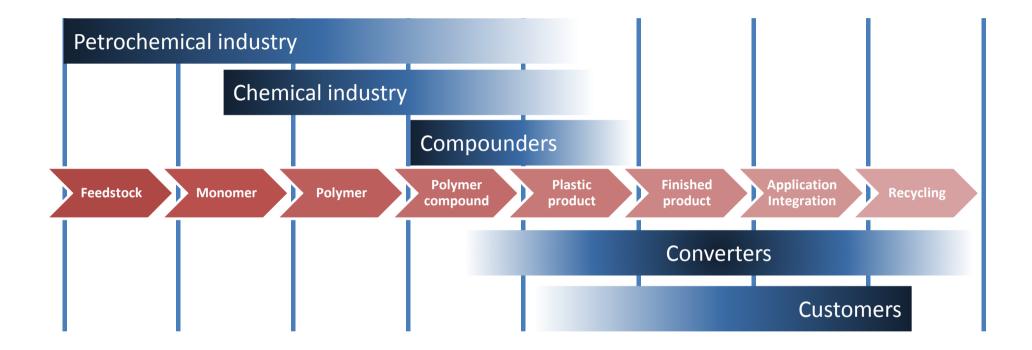
Plastics and Rubber Industry

Value Chain Maps

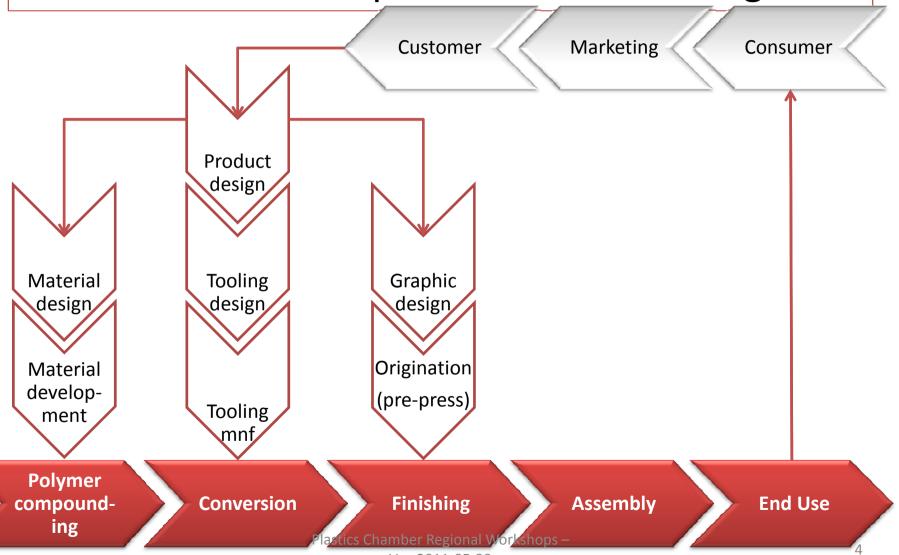
The full plastics life cycle



The generalised plastics value chain

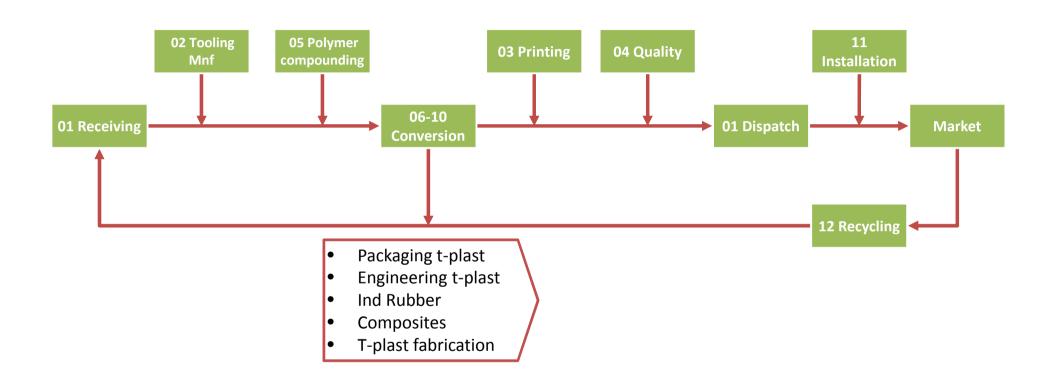
Polymer compound-Conversion Conversion into complete components **Packing** Dispatch ing **Pigments** Compounds Extrusion **Finishing Assembly Additives** Masterbatches • Film **Fillers** Expanded Sheet Cutting **Fabricating** Reinforcing beads • Pipe Slitting **Joining** Pre-pregs... • Profile agents Bending Welding Processing aids Coating Machining Gluing Foaming Laminating Decorating Clipping/snappi • Cable agents, gases... **Printing** ng together covering **Trimming** Bolting ... Moulding Installing... Conditioning Injection Adding inserts • Blow fittings, Injection-blow accessories Rotational Cross-linking... Compression **Thermoforming** Foaming Casting Laminating...

Market-driven the value chain – the influence of the market on plastics manufacturing



Ver. 2011-05-30

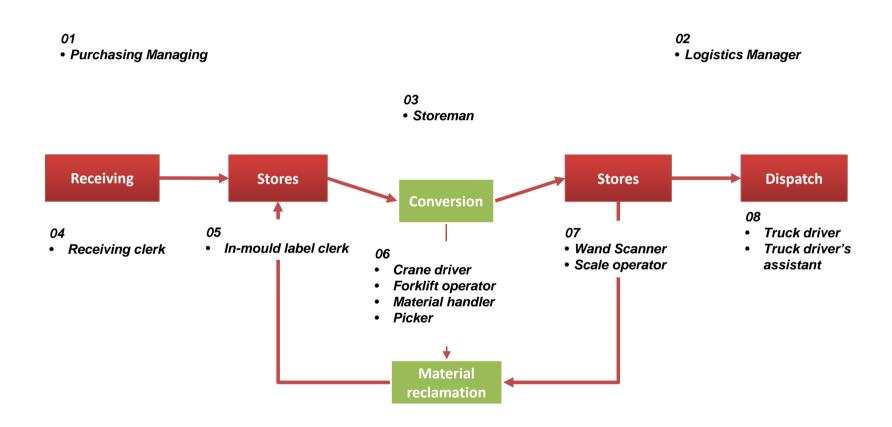
Overview of value chains



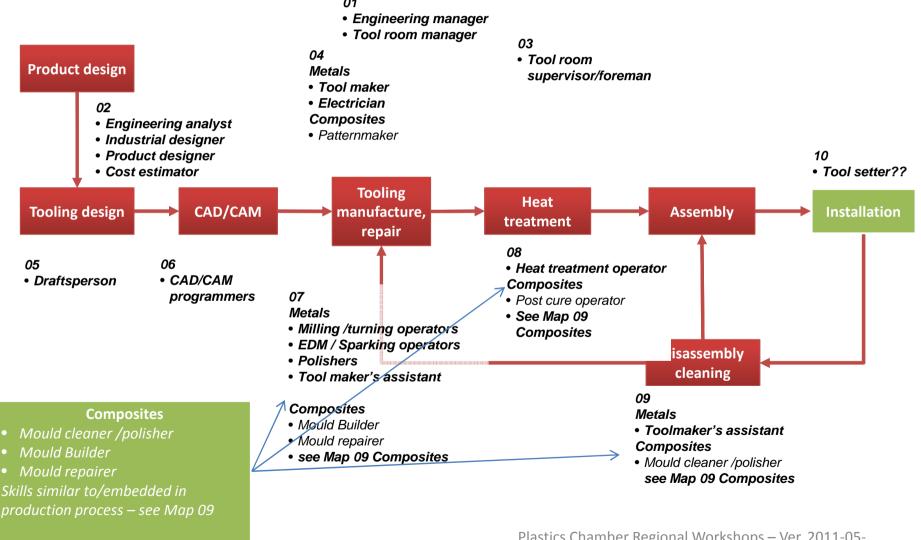
Value Chain Maps

- Map 01 Receiving, dispatch, logistics
- Map 02 Mould and tooling manufacture, repair and maintenance
- Map 03 Printing, decorating, labelling
- Map 04 Quality Management
- Map 05 Polymer compounding
- Map 06 Thermoplastic conversion
- Map 07 Industrial rubber conversion
- Map 08 Polymer composites (GRP, FRP, advanced composites)
- Map 09- Thermoplastic Fabrication
- Map 10 Installation, repair and maintenance
- Map 11 Recycling

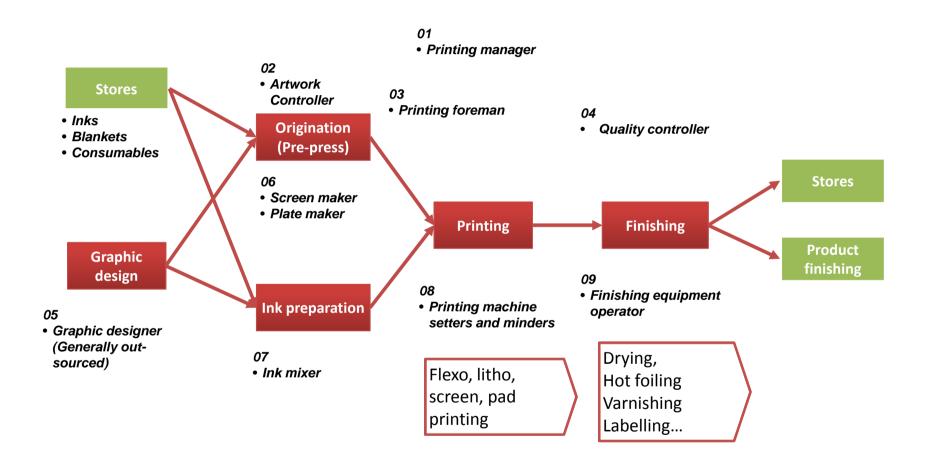
Map 01 - Receiving, dispatch, logistics



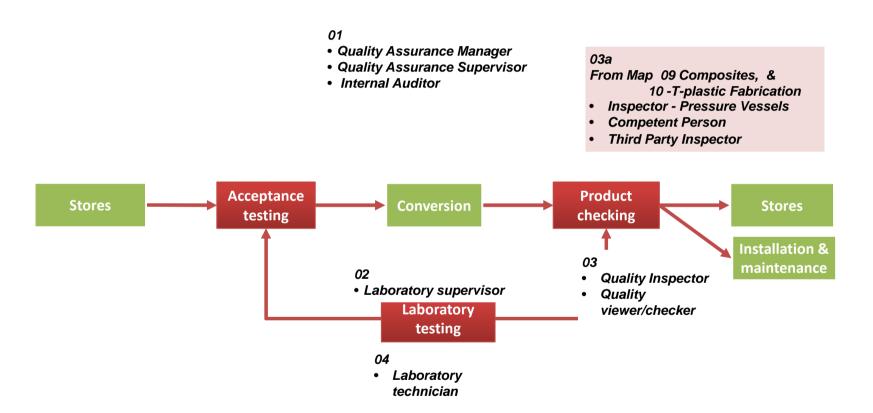
Map 02 Mould and tooling manufacture, repair and maintenance



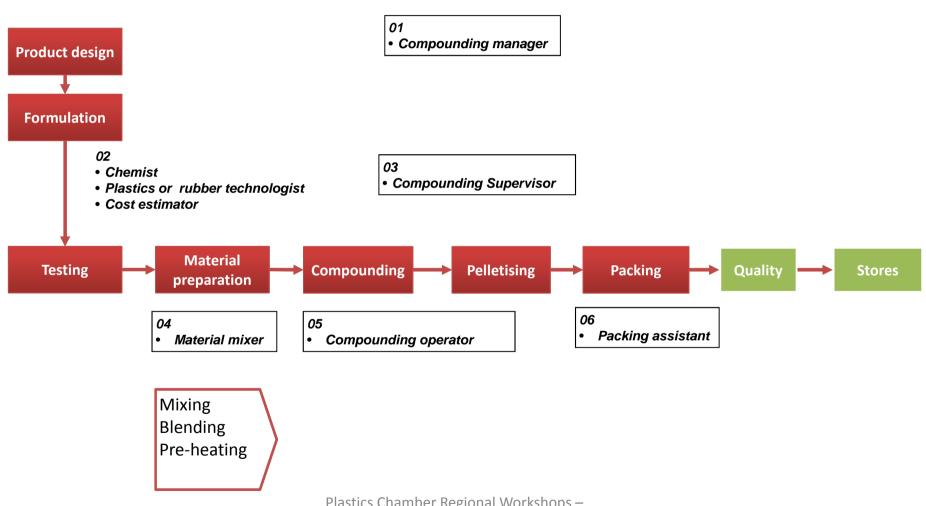
Map 03 - Printing, decorating, labelling



Map 04 - Quality Management



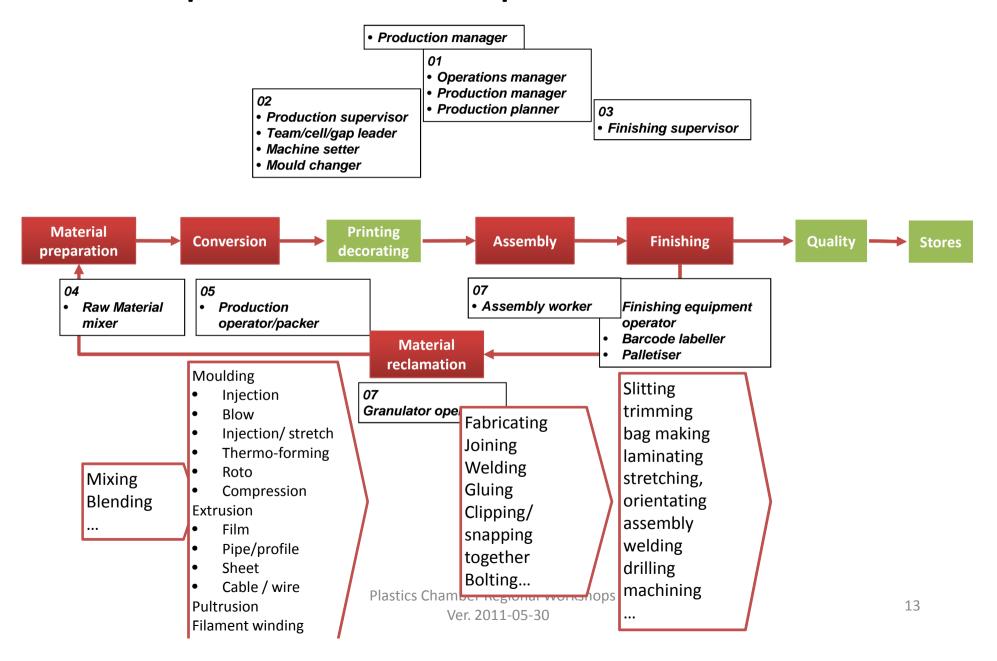
Map 05 - Polymer compounding



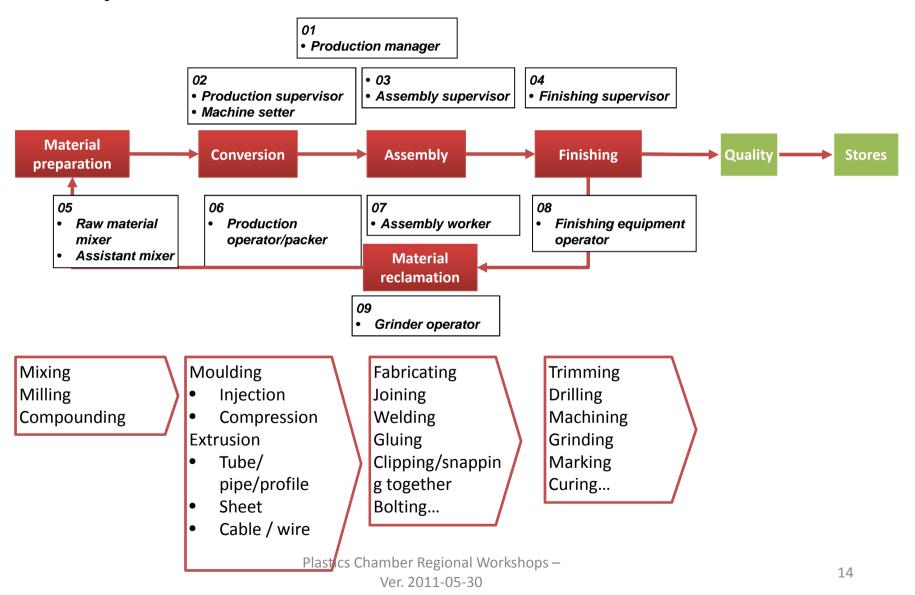
Plastics Chamber Regional Workshops – Ver. 2011-05-30

Maintenance • Electrician • Electronic/CNC/ Megatronic • Fitters • Riggers • Electrician Assistant technician • Fitter's Assistant • Electrician Assistant **Technology** • Plastician • Plastics technologists • Engineer Food technologist • Engineering technologists • Packaging technologist • Engineering technician **Procurement** • Buyers • Supply chain managers **Human Resources Management** • HR, manager / specialist • HRD manager HRD administrator • SDF • Trainer Firm infrastructure Marketing • Safety, Environment, • Finance Management Administration Risk, Quality Export • Public relations • Consumer Protection Sales

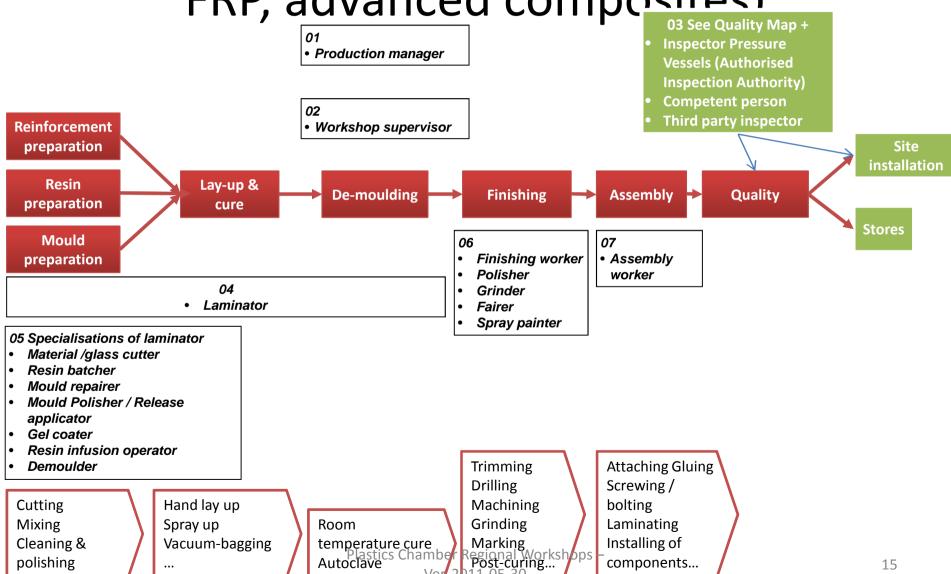
Map 06 – Thermoplastic conversion



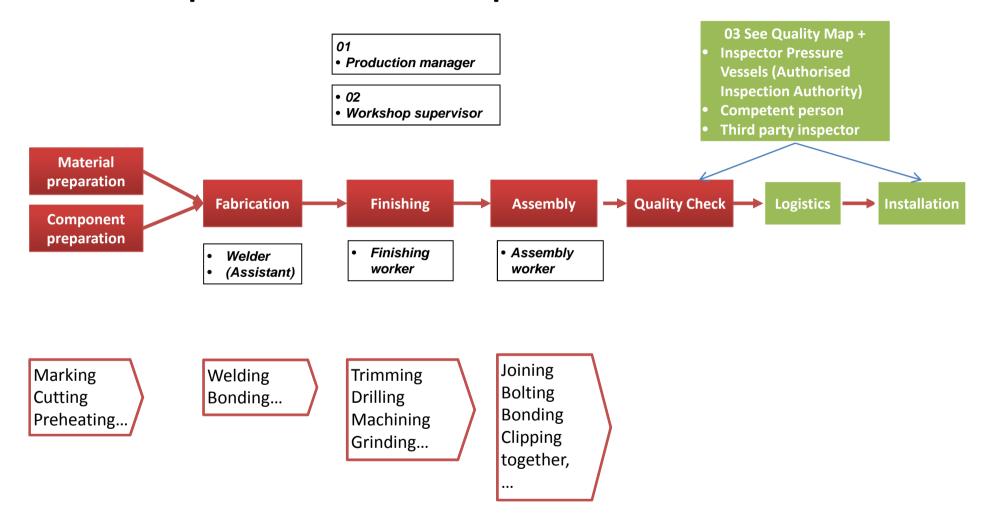
Map 07- Industrial rubber conversion



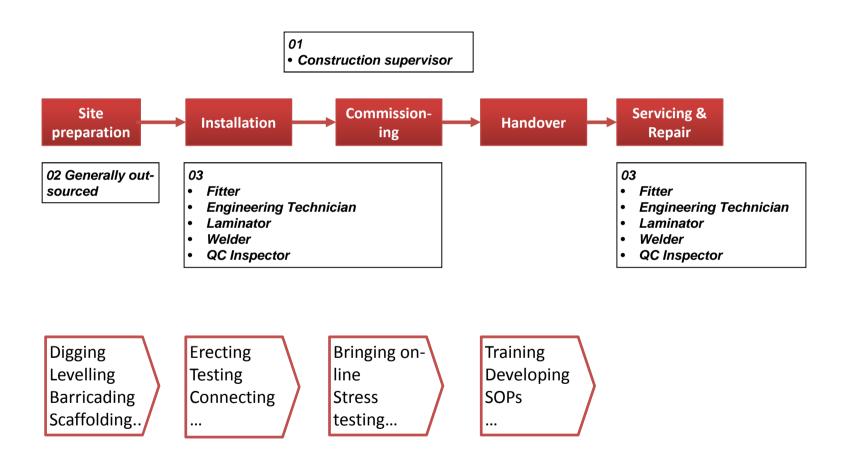
Map 08 - Polymer composites (GRP, FRP, advanced composites)



Map 09 - Thermoplastic Fabrication



Map 10- Installation, repair and maintenance



Map 11 –Recycling

