

Syllabus for Technician / Professional Knowledge – Jr. Fire & Safety Inspector

Topic	Sub-topic
Fire Engineering Fundamentals	Chemistry of fire
	Limits of flammability
	Flame spread
	Effects of heat
	Fire resistance
	Fire load
Fire Fighting Chemicals	Water
	Foam
	DCP
	Clean agents
Fire Detection & Control	Fire Detection principles
	Classification of detectors
	Fire extinction methods
	Operation and maintenance of detection /alarm systems
Fire Protection	Fire suppression systems
	Fire water systems
	Sprinkler systems
	Fire protection for flammable storages
	Ignition source control and inventories
Fire tender	Driver qualification
	Fire service operation
	Facilities in fire tender
Fire Service Hydraulics	Sprinkler system demand
	Hydraulics of sprinkler systems
Fire Rescue	Fire control room
	Incident Command
	On site emergency
	Off site emergency
	First aid/paramedics
	Ambulance
Fire investigation	Fire and safety records
	Investigation assistance
Inspection & Testing of Fire Fighting Systems	Fire Sprinkler testing
	OISD/NFPA standards for testing & inspection
	Fire pumps testing
	Checking of fire fighting appliances
Safety Engineering	Safety commitment
	Safety training
	Work permit and administration