

**Transportation Systems Technician
2011 Exam Study Matrix**

This study matrix is a cross reference of specific exam topics contained on each TST level/ discipline exam.										
Study References	Exam Discipline →	B Electronics	B Electrical	B Facilities	C Electronics	C Electrical	C Bridges	C Tunnels	C Facilities	TST D
1. National Electric Code (NEC) 2008										
2. MUTCD 2003 Edition										
Part 4: Highway Traffic Signals			X		X	X				X
Part 8: Traffic Controls Highway-Rail Grade Crossings			X		X	X				X
3. Electrical RCW & WAC										
WAC 296-46B, 10/31/2009			X	X		X			X	X
RCW 19.28, 7/26/2009			X	X		X			X	X
4. Standard Plans, Specs, Contract Plans										
Standard Plans J-Drawings, J1f thru J-90.20-00, Aug 2, 2010		X	X		X	X				X
Standard Specs 2010, Parts 8-20 and 9-29		X	X		X	X				X
Contract Plans										
5. Safety										
First Aid/CPR, Medic First Aid Student Guide.		X	X	X	X	X		X	X	X
WAC 296-24 Part L Electrical, Current version		X	X	X	X	X		X	X	X
WSDOT Safety Procedures and Guidelines Manual, July 2010, Ch. 4, 6, 9, and 10		X	X	X	X	X		X	X	X
Work Zone guidelines M54-44, Sept 2009		X	X		X	X		X		X
WUCC Digging Guidelines		X	X	X	X	X			X	X
6. Electrical and Electronic Theory and Calculations										
Electrical Theory and Calculations			X	X		X	X	X	X	X
Electronic Theory and Calculations		X			X		X	X		X
Formula Sheet		X	X	X	X	X	X	X	X	X
7. Equipment (Operation, Maintenance, Repair, Troubleshooting, Test Equipment)										
Traffic Signals, ITS, Illumination, TDO		X	X		X	X				X
Bridges (Electrical Controls, PLC's, Motors, Sensors)							X			X
Tunnels (Fire Life Safety, Fire Suppression, Switchgear, Batteries, Variable Speed Drive, UPS)								X		X